Cisco Network Assurance Engine REST API User Guide, Release 4.1(2)

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The Cisco Network Assurance Engine REST API

This document describes the features, operation, and syntax of the Cisco Network Assurance Engine (NAE) REST API as of the current release when written. The features, operation, and syntax of the API are subject to change in future releases, and Cisco cannot guarantee backwards compatibility with prior releases.

Overview

The Cisco Network Assurance Engine (NAE) REST API provides an alternative operation method to the Cisco NAE GUI. The REST API gives programmatic access to all assurance models in addition to providing fully automatable management of the Cisco NAE.

The REST API is a set of programming interfaces that uses Representational State Transfer (REST) architecture. The API contains resources represented by Uniform Resource Identifiers (URIs), which allow you to unambiguously identify each resource. Each URI contains a protocol used to exchange the messages and the resource location string. A URI can refer to a single object or a collection of objects.

A REST API operation is executed by sending an HTTP GET, POST, PUT, or DELETE request in the format of `/api/v1/{resource}` to a URI within the Cisco NAE. The HTTP request typically includes a payload message in JavaScript Object Notation (JSON) format, and the HTTP response typically includes a JSON format message body. In some cases, the HTTP request may also contain URL parameters.

- A GET request may submit URL parameters and returns a JSON data structure containing the requested data or status. The GET method is nullipotent, meaning that it can be called zero or more times without making any changes; in other words, it is a read-only operation.

- A POST request typically creates a new object, such as a user or fabric. It should be sent only once for each object created. A POST request submits a JSON data structure to the specified resource and returns a JSON data structure containing confirmation or failure information.

- A PUT request is used to modify an attribute of an existing object. A PUT request submits a JSON data structure to the specified resource and returns a JSON data structure containing confirmation or failure information. It is not necessary for the payload structure of a PUT request to contain the attributes that are not being modified. The PUT method is idempotent, meaning that there is no additional effect when a request is sent more than once with the same input parameters.

- A DELETE request may submit URL parameters and returns a JSON data structure containing confirmation or failure information. The DELETE method is idempotent, meaning that there is no additional effect when a request is sent more than once with the same input parameters.

You can use common developer tools such as cURL, Postman, or a programming language to compose and send the HTTP request and the JSON payload.

For information about the complete reference documentation for all available REST API commands, see About The Cisco NAE REST API Reference (Swagger).

Authentication and Web Security

The Cisco NAE REST API server protects API sessions against common web threats as described in the following sections.

User Accounts and Roles

Most functions of the Cisco NAE REST API require that the user be authenticated and logged in with an active session. The REST API supports both local authentication and LDAP authentication.

Two roles are supported for user accounts:

- User: Normal user accounts can be created locally or on a remote authentication server. Some APIs cannot be executed by a normal user.
- Super Administrator: The local account named **admin** is considered a super administrator, with higher privileges than a normal user. When logged in as **admin**, you can execute several APIs that are not allowed for normal users. The **admin** account is permanent and cannot be deleted.

Logging in to the Cisco NAE

To prevent a Cross Site Request Forgery (CSRF) attack and other common web threats, the REST API server implements a multi-step login sequence in order to issue a unique session token.

> For more information about CSRF, visit https://www.owasp.org/index.php/Cross-Site_Request_Forgery_(CSRF)_

The following steps describe the login sequence:

1. The client sends an HTTP GET request to `/api/v1/whoami`.
2. The server returns an HTTP response that includes an `X-NAE-LOGIN_OTP` header containing a one-time password (OTP) with a five-minute expiration.
3. The client sends an HTTP POST request to `/api/v1/login` with local or LDAP authentication credentials and with an HTTP request header field of `X-NAE-LOGIN_OTP` containing the OTP value.
4. If the credentials are valid, the server returns an HTTP response that includes an `X-NAE-CSRF-TOKEN` header containing a session password.
5. For all subsequent POST/PUT/DELETE messages for the duration of the session, the client must include the `X-NAE-CSRF-TOKEN` header in the HTTP request.

The following table summarizes the use of the request and response headers:

Request URI	Request Header Name	Response Header Name	Notes
/api/v1/whoami	None	X-NAE-LOGIN-OTP	The OTP is returned in the header only if the user is not already authenticated.
/api/v1/login	X-NAE-LOGIN-OTP	X-NAE-CSRF-TOKEN	The OTP header is sent with the login request. The response header must be included in all subsequent API requests for the duration of the session.
/api/v1/*	X-NAE-CSRF-TOKEN	N/A	The request header is required for all API(GET/POST/PUT/DELETE) operations.

API login example

The following example session shows the login sequence:

Whoami request sent by unauthenticated client

Request

```
GET /api/v1/whoami HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
X-NAE-LOGIN-OTP: 610de91d-abc7-4db3-b703-b3bec47209aa
Set-Cookie: SESSION=3658ff76-b86f-40ba-a70e-a28031baee68; Path=/; HttpOnly
Content-Length: 684

{
  "success" : true,
  "messages" : [ {
    "code" : 7005,
    "severity" : "INFO",
    "message" : "User is not authenticated.  Use One Time Password found in the
response header X-NAE-LOGIN-OTP within the next 5 minutes to login"
  } ],
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "authenticated" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "http://localhost:8080/api/v1/whoami"
      }, {
        "rel" : "login",
        "href" : "https://localhost:8080/api/v1/api/v1/login"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Response headers

Name	Description
X-NAE-LOGIN-OTP	A one-time password to be sent in the HTML header of the /whoami API. The password expires five minutes after it is issued.

Login request sent by unauthenticated client

Request headers

Name	Description
`X-NAE-LOGIN-OTP`	One-time password that was sent in the HTML header of the /whoami API must be provided here.

Request

```
POST /api/v1/login HTTP/1.1
Content-Type: application/json
Accept: application/json
Accept: application/json
X-NAE-LOGIN-OTP: bd856e72-7342-4947-9730-b35bce6b1dce
Host: localhost:8080
Content-Length: 122
Cookie: SESSION=9d7804d8-74b6-43d6-973f-da35eca4c638

{
  "username" : "NbUserRepositoryTestesNfDAghZI",
  "password" : "NbUserRepositoryTestesNfDAghZI",
  "domain" : "Local"
}
```

Response

```
HTTP/1.1 200 OK
X-NAE-CSRF-TOKEN: b8e3038f-e043-4dfa-aee2-3d6ae2163b4d
Content-Type: application/json;charset=UTF-8
Set-Cookie: SESSION=4214b8ad-18d2-4978-9b2c-da5e84dc26e4; Path=/; HttpOnly
Content-Length: 535

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "username" : "NbUserRepositoryTestesNfDAghZI",
      "uuid" : "d80051ea-aad0-4e7a-b444-8ccc48c61c19",
      "domain" : "Local",
      "password_status" : "ACTIVE",
      "remaining_days" : 0
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost:8080/api/v1/login"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Response headers

Name	Description
X-NAE-CSRF-TOKEN	A random token that is valid for the entire session and must be submitted in the X-NAE-CSRF-TOKEN request header of every GET/POST/PUT/DELETE request.

Logout request sent by authenticated client

Request headers

Name	Description
X-NAE-CSRF-TOKEN	The token that is generated as part of login request must be submitted here.

Request

```
POST /api/v1/logout HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: 99223ce0-01fa-4ef0-bdf6-84ef6fb4283b
Cookie: SESSION=a386e260-6059-4a85-89c3-8c3f352090a1
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 318

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "whoami",
        "href" : "http://localhost:8080/api/v1/whoami"
      } ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Whoami request sent by authenticated client (optional)

Request

```
GET /api/v1/whoami HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
Cookie: SESSION=0b4c79f0-a643-4c4a-8cfd-edce999bcbdb
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 675

{
  "success" : true,
  "messages" : [ {
    "code" : 7003,
    "severity" : "INFO",
    "message" : "The user is already authenticated to this session"
  } ],
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "authenticated" : true,
      "password_status" : "ACTIVE",
      "domain" : "Local",
      "uuid" : "a90bb312-74b6-4d51-8a53-22471fff7d68",
      "username" : "NbUserRepositoryTestJkmuERwnvn"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "http://localhost:8080/api/v1/whoami"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Response headers

Path	Type	Description
messages	Array	Descriptive messages provided for this request
messages[].code	Number	An error code indicating that the user is already authenticated
messages[].severity	String	The severity level of this message, which is informational
messages[].message	String	An informational message indicating that the user is already authenticated

Path	Type	Description
`value.data.domain`	`String`	User authentication domain name
`value.data.authenticated`	`Boolean`	If true, the user is already authenticated
`value.data.username`	`String`	The user name of the user who is currently logged in
`value.data.password_status`	`String`	Password status. Possible values: ACTIVE, EXPIRED, EXPIRY_WARNING, LOCKED
`value.data.uuid`	`String`	The UUID of the user who is currently logged in
`value.data_summary.links`	`Array`	An array of links relevant to this request
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field. In this case, the provided link is a self link.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword. In this case, the URL is a self link for this request.

Additional web security measures

Concurrent Session protection

The Cisco NAE REST API server limits the number of concurrent active sessions for a single user account.

Session Fixation protection

The Cisco NAE REST API server provides a mechanism for preventing session fixation attacks.

> For more information about Session Fixation protection, visit https://www.owasp.org/index.php/Session_Fixation_Protection

XSS protection

The Cisco NAE REST API server provides XSS (Cross Site Scripting) prevention.

> For more information about XSS protection, visit https://www.owasp.org/index.php/XSS

Query and Response

Standardized Query Responses

In response to any API command or query, the Cisco NAE REST API server returns an HTTP status code that indicates whether the request was successful, along with other information related to the request. The HTTP status codes are listed in HTTP Status Codes.

Any Cisco NAE REST API call that returns a response payload will return a JSON structure in the common response format. To aid with programmability and understanding, all responses follow a standard response structure, as described in Common Response Structure.

Common Response Structure

The Cisco NAE REST API common response JSON structure includes the fields described in the *Common Response Field Definitions* table. For an example of the JSON structure, see the Common Response Structure Example.

Table 1. Common Response Field Definitions

Name	Purpose
success	Indicates whether the request was successful.
messages	Displays messages, if any, associated with a request. A single request can return multiple messages, such as when multiple validation errors exist in a submitted form. Each message is composed of three attributes: a severity level (INFO, WARNING, or ERROR), a Cisco NAE-specific error code to assist technical support, and a user-friendly message string. Note that a message may be generated even when a request is successful. For example, a WARNING message is generated if the requested page size exceeds the allowed value. Some common error codes are listed in NAE Error Codes.
value	This object holds the actual results of the request as shown in the *Response Payload Structure* table.

*Table 2. Response Payload Structure (identified by the **value** attribute in the response)*

Name	Purpose
namespaces	Namespace declarations to prevent collisions between property names returned in the API response.

Name	Purpose
data_summary	Summary information about the data returned in the response. The data summary object is composed of the following attributes: * `total_count`: Total number of records matched by this request. If the total count exceeds the `page_size`, multiple pages of data are returned. The `links` attribute contains the paging links for navigating between pages. * `has_more_data`: Boolean indicating whether there are additional data rows available in the response. * `page_size`: Maximum number of records returned by a single request. This attribute is user configurable using the `$page` query parameter (see Request Query Parameters) up to the maximum limit imposed by the system (currently 200 records). * `current_page_number`: Page number of this response data. Page numbers start at 0 and can be specified using the `$page` query parameter. * `total_page_count`: Total number of pages contained in the response. This value equals the (total_count/page_size) + 1 * `sort_fields`: Array of one or more fields that specify the sorting criteria used in the response. * `links`: HATEOAS paging links for navigating between response pages.
data	The actual data object containing the returned records. This object is documented separately for each API. The `data` attribute is a mixed object returning a JSON object when only a single row is returned and an array of objects when multiple rows are returned. The `self` link for this request is contained in the `data_summary.links` section.

Query Response Pagination

Because the results of a query may consist of a large number of data records, the query response is typically paginated. A single page of data, page 0, is returned in the response structure of an initial query. When the results of the query exceed the size of a single page, additional pages can be requested either by specifying an explicit page number (`$page` in the query parameters) or by using pagination links in the response structure of the initial query and subsequent queries.

The number of records per page (`$size`) can be specified as a query parameter.

Pagination Links

The response structure of any multi-page query contains full query URLs that can be sent in subsequent GET operations to fetch the first, last, next, and previous pages of data results.

The Cisco NAE REST API uses the Hypermedia As The Engine Of Application State (HATEOAS) principle to present links to paginated resources in the ATOM format. Including these links in the response relieves the user from the task of composing them.

The following table lists the links that are present for each resource. These pagination links are found in the `value.data_summary.links` section of the response.

Relation	Description
first	Link to the first page of the result set
prev	Previous page from the current page (not supplied for page 0)
next	Next page from the current page (not supplied for the last page)
last	Link to the last page of the result set
self	URL pointing to the resource itself

Request Query Parameters

Request query parameters are appended to the API request URL with the `?` operator and are of the form `parameter=value`. Multiple query parameters can be combined using the `&` operator. Some query parameters allow more than one value, separated by a comma with no space after.

To support pagination and other query functions, the Cisco NAE REST API reserves all parameters starting with `$` as Cisco NAE REST API keywords. Any keyword not starting with `$` is assumed to be specific to the assurance group and is handled uniquely by the API.

Query Parameter Examples

The following query requests detailed epoch records, delivered two to a page, beginning with the first page, which is page 0.

```
GET  /api/v1/epochs?$page=0&$size=2
```

The following query requests critical and major system events for an epoch. Two severity level values are specified, separated by a comma.

```
    GET /api/v1/event-services/smart-events?$epoch_id={EPOCHID}&
category=SYSTEM&severity=EVENT_SEVERITY_CRITICAL,EVENT_SEVERITY_MAJOR
```

Common Response Structure Example

The following example shows the JSON structure received in response to a request for the third page ("current_page_number") of fifteen ("total_page_count") in a multi-page response. The original query matched 30 epoch records ("total_count"), and the query specified that the response page should contain up to two records ("page_size").

The `value.dataSummary.links` section contains query URLs for requesting additional pages, such as page 0 (the first page), page 2 (the previous page), page 3 (this page), page 4 (the next page), and page 14 (the last page).

The `value.data` section contains the two data records included in this page.

```
{
  "success" : true,
  "messages" : [
    {
      "code" : 1001,
      "severity" : WARNING,
      "message" : "A warning message"
    }
  ],
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "dataSummary" : {
      "total_count" : 30,
      "has_more_data" : false,
      "page_size" : 2,
      "current_page_number" : 3,
      "total_page_count" : 15,
      "sort_fields" :  "epoch",
      "links" : [
        {
          "rel": "first",
          "href": "http://localhost:8443/api/v1/epochs?$page=0&$size=2"
        },
        {
          "rel": "prev",
          "href": "http://localhost:8443/api/v1/epochs?$page=2&$size=2"
        },
        {
          "rel": "next",
          "href": "http://localhost:8443/api/v1/epochs?$page=4&$size=2"
        },
        {
          "rel": "last",
          "href": "http://localhost:8443/api/v1/epochs?$page=14&$size=2"
        },
        {
          "rel": "self",
          "href":
"http://localhost:8443/api/v1/epochs?$page=3&$size=2&$view=summary"
        }
      ]
    },
    "data" : [
      {
        "epoch": 6317663284849816765,
        "links": [
```

```
          {
            "rel": "self",
            "href": "http://localhost:8443/api/v1/epochs/6317663284849816765"
          }
        ],
        "updated_at": 1470959143974
      },
      {
        "epoch": 6317663284849816465,
        "links": [
          {
            "rel": "self",
            "href": "http://localhost:8443/api/v1/epochs/6317663284849816465"
          }
        ],
        "updated_at": 1470958842975
      }
    ]
  }
}
```

About The Cisco NAE REST API Reference (Swagger)

The Cisco NAE REST API uses OpenAPI, also known as Swagger, to provide a complete and interactive API reference for developers, linked directly from the Cisco NAE GUI. The Swagger reference allows you to visualize and demonstrate the resources of the API. The direct connection from the reference document to the live REST API provides an easy way to write and test simple requests directly from the Swagger reference UI.

You can find the Cisco NAE REST API Swagger Interface document in the Appliance Documentation menu of the Cisco NAE GUI or at this URL: `https://<Your_NAE_Appliance>/api/v1/swagger-ui.html`

> When you use the "Try it out" interactive feature of the Cisco NAE Swagger UI, you are required to enter a value for the session token X-NAE-CSRF-TOKEN, which is obtained in the login process. If you are already logged in to the Cisco NAE GUI, you can either log out of the GUI and then log in using the API, noting the new session token value, or you can use your browser's developer console to inspect the value of localStorage.CSRF_TOKEN. This element contains the current session token.

Common API Examples

> ⚠️ This document describes the features, operation, and syntax of the Cisco Network Assurance Engine (NAE) REST API as of the current release when written. The features, operation, and syntax of the API are subject to change in future releases, and Cisco cannot guarantee backwards compatibility with prior releases.

Assurance Group Management Operations

Use the APIs in this section to create, read, update, or delete assured entities within Cisco NAE. The listed APIs are supported for ACI fabric management within Cisco NAE.

An assurance group contains all the network nodes that should be analyzed together, which typically consists of an entire network fabric. Cisco NAE enables you to analyze the assurance group in two modes: online analysis and offline analysis. For more information about assured entities, see the *Cisco Network Assurance Engine Fundamentals Guide*.

These APIs require an active authenticated API session. The following table shows the role requirements for executing these APIs.

Operation	Minimum Role
Create ACI Fabric	User
Get ACI Fabric	User
Get All ACI Fabrics	User
Edit ACI Fabric	User
Start Online Analysis	User
Stop Analysis	User
Delete ACI Fabric	User

Create ACI Fabric

A `POST` request creates a new ACI fabric record and returns an HTTP status code of `201 CREATED` upon success. An ACI fabric can be created for continuous live analysis.

Example Request

```
POST /api/v1/config-services/assured-networks/aci-fabric HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 548

{
  "tags" : [ "FlLpDnlFsnXkRSwkrrsQIiknmLxKTd", "mmhQPPgRmYWlGjGUIWyOCDFTbfLFaY" ],
  "display_name" : "WMIXYlToSG",
  "interval" : 480,
  "analysis_timeout_in_secs" : 1489,
  "password" : "SncGeFHlPr",
  "iterations" : 5,
  "unique_name" : "EwalECqCwo",
  "assured_network_type" : "ACI_FABRIC",
  "apic_hostnames" : [ "oaZmNOMihWcWujeRiPAtGZOkCciQDG.cisco.com",
"ALETtczLTRqMtWLDEMoAiQxIAhSrXS.cisco.com", "ZkozgvdefzTiBmJDVwqShwucPbYDeV.cisco.com"
],
  "username" : "MZWHMUyNsC",
  "operational_mode" : "ONLINE",
  "description" : "GwhYUsgkCs"
}
```

Example Response

```
HTTP/1.1 201 Created
Location: http://localhost:8080/api/v1/config-services/assured-networks/aci-
fabric/e665caf5-7db3afc9-d82f-4734-9de2-4dac6f81096e
Content-Type: application/json;charset=UTF-8
Content-Length: 925

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-7db3afc9-d82f-4734-9de2-4dac6f81096e",
      "tags" : [ "FlLpDnlFsnXkRSwkrrsQIiknmLxKTd", "mmhQPPgRmYWlGjGUIWyOCDFTbfLFaY" ],
      "display_name" : "WMIXYlToSG",
      "interval" : 480,
      "analysis_timeout_in_secs" : 1489,
      "status" : "STOPPED",
      "iterations" : 5,
      "unique_name" : "EwalECqCwo",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "oaZmNOMihWcWujeRiPAtGZOkCciQDG.cisco.com",
"ALETtczLTRqMtWLDEMoAiQxIAhSrXS.cisco.com", "ZkozgvdefzTiBmJDVwqShwucPbYDeV.cisco.com"
],
      "username" : "MZWHMUyNsC",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "GwhYUsgkCs"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Request Fields

Path	Type	Description
apic_hostnames	Array	An array of strings that are the ACI Controller hostnames.
username	String	The login id of the admin user for the APIC host.
password	String	The password of the admin user for the APIC host.

Path	Type	Description
`tags`	`Array`	(Optional) A collection of user-defined tags associated with this object. The tags are exclusively for use by the user and are not used internally by the application.
`unique_name`	`String`	An immutable unique name for this object. The uniqueness is enforced with other object instances of the same type. Once created, this attribute cannot be changed.
`display_name`	`String`	(Optional) A user-defined unique display name for this object. The uniqueness is enforced with other object instances of the same type. Unlike the unique name, this attribute can be modified by the user at any time provided that it remains unique.
`description`	`String`	(Optional) A description for this object.
`interval`	`Number`	The polling interval at which the data is collected from this fabric.
`analysis_timeout_in_secs`	`Number`	The time in seconds after which the analysis is stopped if not completed.
`iterations`	`Number`	(Optional) The number of times collection and analysis should be run on this fabric, meaning the number of epochs to be generated. If this field is not specified, analysis will be run continuously at the specified interval.
`assured_network_type`	`String`	An enumerated type indicating the type of Assurance Group. Currently, the only valid type is ACI_FABRIC, and this attribute does not need to be set.
`operational_mode`	`String`	Valid values are ONLINE and OFFLINE. Indicates whether the ACI fabric is in offline analysis or is in a regularly managed mode.

Response Fields

See Response Fields for Get ACI Fabric.

Get ACI Fabric

A GET request returns a record of the ACI fabric if an ACI fabric with the specified ID is present.

Example Request

```
GET /api/v1/config-services/assured-networks/aci-fabric/fd845b02-e4da-4f93-ac7c-
f09fe172edb4 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1289

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "fd845b02-e4da-4f93-ac7c-f09fe172edb4",
      "tags" : [ "gXQqYILNtf", "iLWyUWRPFy", "XXwSwiLeNm", "znvytXOqXn", "YAIArvUdnk"
],
      "display_name" : "SUMITdqSkr",
      "application_id" : "SznNWxThAQ",
      "interval" : 420,
      "analysis_timeout_in_secs" : 600,
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
fabric/fd845b02-e4da-4f93-ac7c-f09fe172edb4"
      }, {
        "rel" : "Get Assurance Entities for AG: fd845b02-e4da-4f93-ac7c-f09fe172edb4",
        "href" : "https://localhost/api/v1/config-services/assured-networks/assurance-
entity?ag_uuid=fd845b02-e4da-4f93-ac7c-f09fe172edb4"
      } ],
      "unique_name" : "njdgyEthvh",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "OfUncrahdY.cisco.com", "SoqVukbOma.cisco.com",
"raKByZQANA.cisco.com" ],
      "username" : "UbWdOFkTZv",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "BVqEnlAoGY"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 3. /api/v1/config-services/assured-networks/aci-fabric/{id}

Parameter	Description
`id`	The id path parameter represents the id of the ACI fabric that needs to be returned.

Response Fields

Path	Type	Description
`value.data.tags`	`Array`	A collection of user-defined tags associated with this object. The tags are exclusively for use by the user and are not used internally by the application.
`value.data.active`	`Boolean`	A flag that identifies whether the fabric is the currently-active fabric. Only one fabric can be active at any given time. An active fabric is one in which periodic data collection and analysis takes place based on the data collection settings.
`value.data.unique_name`	`String`	An immutable unique name for this object. The uniqueness is enforced with other object instances of the same type. Once created, this attribute cannot be changed.
`value.data.display_name`	`String`	A user-defined unique display name for this object. The uniqueness is enforced with other object instances of the same type. Unlike the unique name, this attribute can be modified by the user at any time provided that it remains unique.
`value.data.description`	`String`	A description for this object.
`value.data.uuid`	`String`	The unique identifier for this fabric.
`value.data.interval`	`Number`	The polling interval at which the data is collected from this fabric.
`value.data.assured_network_type`	`String`	An enumerated type indicating the type of Assurance Group Currently, the only valid type is ACI_FABRIC.
`value.data.apic_hostnames`	`Array`	A array of strings that are the ACI Controller hostnames.

Path	Type	Description
value.data.username	String	The login id of the admin user for the APIC host.
value.data.operational_mode	String	Indicates whether the ACI fabric is in offline analysis or is in a regularly managed mode.
value.data.status	String	The current status of the analysis run.
value.data.analysis_timeout_in_secs	Number	The maximum time to wait before an unfinished epoch will be aborted.

Get All ACI Fabrics

A GET request returns the records of all ACI fabrics.

Example Request

```
GET /api/v1/config-services/assured-networks/aci-fabric HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2574

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "da2c908a-76e2-4e40-a4f8-f92b1b4d2616",
      "tags" : [ "XLNunyJpvL", "VeQedLOYrR", "kIFKQKKNRo" ],
      "display_name" : "YWXeexmXCR",
      "application_id" : "scfxeRYbBs",
      "interval" : 484,
      "analysis_timeout_in_secs" : 600,
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
```

```
fabric/da2c908a-76e2-4e40-a4f8-f92b1b4d2616"
      }, {
        "rel" : "Get Assurance Entities for AG: da2c908a-76e2-4e40-a4f8-f92b1b4d2616",
        "href" : "https://localhost/api/v1/config-services/assured-networks/assurance-
entity?ag_uuid=da2c908a-76e2-4e40-a4f8-f92b1b4d2616"
      } ],
      "unique_name" : "HRJcAhZkpi",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "PdAviOkHIn.cisco.com", "aTdsaaeNTK.cisco.com",
"yKwoMwljpS.cisco.com", "vmqabJcUId.cisco.com" ],
      "username" : "INhFVPvAvS",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "KHdJcVJFHL"
    }, {
      "uuid" : "871d9113-f53f-45de-8300-e3e2cf56d900",
      "tags" : [ "NmWOPpkLrF", "euachhevPj", "XUeOERfeKV", "AaLWjamXIy" ],
      "display_name" : "pjYwUkZVNG",
      "application_id" : "lmrqZCAFnF",
      "interval" : 472,
      "analysis_timeout_in_secs" : 600,
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
fabric/871d9113-f53f-45de-8300-e3e2cf56d900"
      }, {
        "rel" : "Get Assurance Entities for AG: 871d9113-f53f-45de-8300-e3e2cf56d900",
        "href" : "https://localhost/api/v1/config-services/assured-networks/assurance-
entity?ag_uuid=871d9113-f53f-45de-8300-e3e2cf56d900"
      } ],
      "unique_name" : "PTgXfgyhAz",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "dhmcgKUHyc.cisco.com", "MVproQpytx.cisco.com",
"qHazbBLUUR.cisco.com", "IpsuCqxVND.cisco.com" ],
      "username" : "erNpKOEiLl",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "JbqPNhloyh"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
fabric?$page=0&$size=50"
      } ],
      "total_count" : 2,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
```

```
        }
      }
    }
```

Response Fields

See Response Fields for Get ACI Fabric.

Edit ACI Fabric

A PUT request updates the attributes of an ACI fabric if a fabric with the specified ID is present.

Example Request

```
PUT /api/v1/config-services/assured-networks/aci-fabric/856ebe54-fd6c-4b38-86a0-
c3e1fcba21a5 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 280

{
  "interval" : 1200,
  "analysis_timeout_in_secs" : 1500,
  "password" : "K8L59U8LgF",
  "assured_network_type" : "ACI_FABRIC",
  "apic_hostnames" : [ "apic1@cisco.com", "apic2@cisco.com", "apic3@cisco.com" ],
  "username" : "apicAdmin",
  "description" : "fabric description"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1283

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "856ebe54-fd6c-4b38-86a0-c3e1fcba21a5",
      "tags" : [ "tBkbnacZzU", "vcMjzzLWnI", "JblaDJmbht", "tMScYYIaxj", "qTjduDIpFB"
],
      "display_name" : "eoKQySfbMB",
      "application_id" : "OrMBqJGPVi",
      "interval" : 1200,
      "analysis_timeout_in_secs" : 1500,
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
fabric/856ebe54-fd6c-4b38-86a0-c3e1fcba21a5"
      }, {
        "rel" : "Get Assurance Entities for AG: 856ebe54-fd6c-4b38-86a0-c3e1fcba21a5",
        "href" : "https://localhost/api/v1/config-services/assured-networks/assurance-
entity?ag_uuid=856ebe54-fd6c-4b38-86a0-c3e1fcba21a5"
      } ],
      "unique_name" : "EQBpWeOYvW",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "apic1@cisco.com", "apic2@cisco.com", "apic3@cisco.com" ],
      "username" : "apicAdmin",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "fabric description"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 4. /api/v1/config-services/assured-networks/aci-fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the ACI fabric that needs to be updated.

Response Fields

See Response Fields for Get ACI Fabric.

Start Online Analysis

A POST request on a fabric triggers an online analysis run and returns an HTTP status code of 200 OK upon successful trigger. Valid APIC hostnames, username, and password must be specified for the fabric for a successful analysis. Data is collected for the fabric and analyzed at regular intervals specified by the user. Epochs are generated for each analysis in point of time.

Example Request

```
POST /api/v1/config-services/assured-networks/aci-fabric/d1bc69f7-1180-4fe5-b884-
733734e6b56a/start-analysis HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 22

{
  "iterations" : 1
}
```

Example Response

```
HTTP/1.1 410 Gone
Content-Type: application/json;charset=UTF-8
Content-Length: 341

{
  "success" : false,
  "messages" : [ {
    "code" : 5109,
    "severity" : "ERROR",
    "message" : "This API is deprecated."
  } ],
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Stop Analysis

A POST request on a fabric stops an ongoing analysis run and returns a HTTP status code of 200 OK upon successful trigger.

Example Request

```
POST /api/v1/config-services/assured-networks/aci-fabric/f2131b36-af67-47cb-904f-
c73c2d0486af/stop-analysis HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 410 Gone
Content-Type: application/json;charset=UTF-8
Content-Length: 341

{
  "success" : false,
  "messages" : [ {
    "code" : 5109,
    "severity" : "ERROR",
    "message" : "This API is deprecated."
  } ],
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Delete ACI Fabric

A `DELETE` request deletes a fabric if a fabric with the specified ID is present. All epochs of the fabric are eventually deleted.

Example Request

```
DELETE /api/v1/config-services/assured-networks/aci-fabric/47bad8c9-088c-4781-9ec1-
8ae77b1d5197 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1285

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "47bad8c9-088c-4781-9ec1-8ae77b1d5197",
      "tags" : [ "GwclYODfBU", "tOuQraMYWG", "EMwJNQiwQM" ],
      "display_name" : "ahplcAPXLT",
      "application_id" : "XsRKqTKjWr",
      "interval" : 462,
      "analysis_timeout_in_secs" : 600,
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/assured-networks/aci-
fabric/47bad8c9-088c-4781-9ec1-8ae77b1d5197"
      }, {
        "rel" : "Get Assurance Entities for AG: 47bad8c9-088c-4781-9ec1-8ae77b1d5197",
        "href" : "https://localhost/api/v1/config-services/assured-networks/assurance-
entity?ag_uuid=47bad8c9-088c-4781-9ec1-8ae77b1d5197"
      } ],
      "unique_name" : "odrlbofgpJ",
      "assured_network_type" : "ACI_FABRIC",
      "apic_hostnames" : [ "PdXVcxCmqc.cisco.com", "fzcdpFktmP.cisco.com",
"wrSMVkWLmz.cisco.com", "iqmSPhHPjr.cisco.com" ],
      "username" : "jOkbTUbyjA",
      "active" : false,
      "operational_mode" : "ONLINE",
      "description" : "uaoTclwjvV"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 5. /api/v1/config-services/assured-networks/aci-fabric/{id}

Parameter	Description
`id`	The id path parameter represents the id of the ACI fabric that needs to be updated.

Response Fields

See Response Fields for Get ACI Fabric.

Epoch Operations

Use the APIs in this section to read the epochs of an ACI fabric within Cisco NAE. You must create an ACI fabric before using these APIs.

Cisco NAE performs analysis of a Cisco ACI fabric at regular intervals called epochs. In 15 minute intervals, product-name-short} captures a snapshot of the controller policies and the fabric run time state, performs analysis, and generates smart events. For more information about epoch analysis, see the *Cisco Network Assurance Engine Getting Started Guide*.

These APIs require an active authenticated API session. The following table shows the role requirements for executing these APIs.

Operation	Minimum Role
Get An Epoch	User
Get Epochs of an ACI Fabric	User
Get Epochs by Collection Timestamp	User
Get Latest Epoch	User

Get An Epoch

A `GET` request with $epoch_id query parameter returns a record of the epoch if an epoch with the specified ID is present.

Example Request

```
GET /api/v1/event-services/epochs?$epoch_id=85792710-411720fb-cebd-4d61-8728-
58795b1ca660 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1774
```

```
{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "assurance_info" : [ {
        "severity" : "info",
        "count" : 0
      }, {
        "severity" : "warning",
        "count" : 0
      }, {
        "severity" : "minor",
        "count" : 149
      }, {
        "severity" : "major",
        "count" : 104
      }, {
        "severity" : "critical",
        "count" : 0
      } ],
      "status" : "FINISHED",
      "collection_time_rfc3339" : "2020-05-06T22:35:56Z",
      "analysis_start_time_rfc3339" : "2020-05-06T22:35:56Z",
      "appliance_version" : "4.1.2",
      "is_offline" : false,
      "event_info" : [ {
        "severity" : "major",
        "count" : 104
      }, {
        "severity" : "minor",
        "count" : 149
      } ],
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "links" : [ {
        "rel" : "self",
        "href" : "http://localhost:8080/api/v1/event-
services/epochs?$epoch_id=85792710-411720fb-cebd-4d61-8728-58795b1ca660"
      } ],
      "collection_time_msecs" : 1588804556000,
      "analysis_completion_time_msecs" : 1588814556000,
      "analysis_completion_time_rfc3339" : "2020-05-07T01:22:36Z",
      "fabric_id" : "9423af2f-248c-42ef-80f5-427547fd6d87",
      "epoch_id" : "85792710-411720fb-cebd-4d61-8728-58795b1ca660",
      "processed" : true,
      "analysis_start_time_msecs" : 1588804556000
    } ],
```

```
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/event-services/epochs?$page=0&$size=50"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Request Parameters

Parameter	Description
`$epoch_id`	(Optional) The id of the epoch to be returned.

Response Fields

Path	Type	Description
`value.data.[].collection_time_msecs`	`Number`	The UTC time in milliseconds since Jan 1, 1970 when this epoch collection started.
`value.data.[].collection_time_rfc3339`	`String`	The UTC time in RFC3339 format when this epoch collection started.
`value.data.[].epoch_id`	`String`	Unique epoch ID for this resource.
`value.data.[].fabric_id`	`String`	Unique fabric ID for this resource.
`value.data.[].links`	`Array`	An array of links for this request.
`value.data.[].processed`	`Boolean`	This boolean indicates whether the epoch was completely processed. The processed flag is false for an epoch for which analysis has started but is not yet completed for any reason.
`value.data.[].analysis_start_time_msecs`	`Number`	The UTC time in milliseconds since Jan 1, 1970 when this epoch's analysis started.
`value.data.[].analysis_start_time_rfc3339`	`String`	The UTC time in RFC3339 format when the analysis for the epoch was started.

Path	Type	Description
value.data.[].analysis_completion_time_msecs	Number	The UTC time in milliseconds since Jan 1, 1970 when this epoch's analysis completed.
value.data.[].analysis_completion_time_rfc3339	String	The UTC time in RFC3339 format when the data for this epoch was completely analyzed.
value.data.[].status	String	The current state of the analysis run for the epoch. Possible values are: FINISHED, IN_PROGRESS, and FAILED.
value.data.[].is_offline	Boolean	Indicates whether the epoch is generated due to an offline analysis.
value.data.[].assurance_info	Array	Provides information about assurance system events for this epoch.
value.data.[].assurance_info.[].severity	String	Indicates the severity of the events for which count is provided.
value.data.[].assurance_info.[].count	Number	Indicates the number of assurance events in the system for this epoch by severity.
value.data.[].assurance_info.[].links	Array	Provides links to access further information about the events of a severity for this epoch.
value.data.[].event_info	Array	Provides information about the number of all kinds of events categorized by severity for this epoch.
value.data.[].event_info.[].severity	String	Indicates the severity of the events for which count is provided.
value.data.[].event_info.[].count	Number	Indicates the number of events in the system for this epoch by severity.
value.data.[].event_info.[].links	Array	Provides links to access further information about the events of a severity for this epoch.
value.data.[].appliance_version	String	The version of the NAE when this epoch was generated.
value.data.[].epoch_type	String	Provides information about type of epoch. Possible values are: ONLINE, OFFLINE and PCV

Path	Type	Description
`value.data.[].links`	`Array`	Provides links to access further relevant information for this epoch.
`value.data_summary.links`	`Array`	Provides links to access further relevant information for this epoch.

Get Epochs of an ACI Fabric

A `GET` request with $fabric_id query parameter returns all epochs for a specified fabric. Additional query parameters documented below can also be specified to apply more filters.

Example Request

```
GET /api/v1/event-services/epochs?$fabric_id=b0b18081-a25a-43ca-9950-
3b355268dcbc&$size=1 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1974

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "assurance_info" : [ {
        "severity" : "info",
        "count" : 0
      }, {
        "severity" : "warning",
        "count" : 0
      }, {
        "severity" : "minor",
        "count" : 0
      }, {
        "severity" : "major",
        "count" : 0
      }, {
```

```
      "severity" : "critical",
      "count" : 0
    } ],
    "status" : "FINISHED",
    "collection_time_rfc3339" : "2976-05-16T15:11:12Z",
    "analysis_start_time_rfc3339" : "2976-05-16T15:11:12Z",
    "appliance_version" : "4.1.2",
    "is_offline" : false,
    "epoch_type" : "ONLINE",
    "leaf_count" : 0,
    "links" : [ {
      "rel" : "self",
      "href" : "http://localhost:8080/api/v1/event-
services/epochs?$epoch_id=93750380-2bd797a2-64be-4a48-aa64-edae1d48591d"
    } ],
    "collection_time_msecs" : 31758102672000,
    "analysis_completion_time_msecs" : 31758112672000,
    "analysis_completion_time_rfc3339" : "2976-05-16T17:57:52Z",
    "fabric_id" : "b0b18081-a25a-43ca-9950-3b355268dcbc",
    "epoch_id" : "93750380-2bd797a2-64be-4a48-aa64-edae1d48591d",
    "processed" : true,
    "analysis_start_time_msecs" : 31758102672000
  } ],
  "data_summary" : {
    "links" : [ {
      "rel" : "first",
      "href" : "https://localhost/api/v1/event-services/epochs?$page=0&$size=1"
    }, {
      "rel" : "self",
      "href" : "https://localhost/api/v1/event-services/epochs?$page=0&$size=1"
    }, {
      "rel" : "next",
      "href" : "https://localhost/api/v1/event-services/epochs?$page=1&$size=1"
    }, {
      "rel" : "last",
      "href" : "https://localhost/api/v1/event-services/epochs?$page=19&$size=1"
    } ],
    "total_count" : 20,
    "has_more_data" : true,
    "page_size" : 1,
    "current_page_number" : 0,
    "total_page_count" : 20
  }
 }
}
```

Request Parameters

Parameter	Description
`$fabric_id`	(Optional) The ID of the ACI fabric for which the epochs should be returned.
`$page`	(Optional) The page number of the paginated results to return. Defaults to 0 if not specified.The 'data_summary' element in the response provides links to fetch data for remaining pages.
`$size`	(Optional) Specifies the number of epochs to return in a single page. Defaults to 50 if not specified.
`$processed`	(Optional) A boolean parameter to allow the user to query for epochs which are processed completely. The processed flag is false for an epoch for which analysis has started but is not yet completed.
`$status`	(Optional) Specifies the status of epochs that need to be returned. Multiple values separated by comma can be specified. Valid values are [IN_PROGRESS, FINISHED, FAILED, DELETING, PARTIALLY_FAILED]
`$from_collection_time_msecs`	(Optional) A unix timestamp in milliseconds. All epochs with a collection time later than or equal to the specified value will be returned.
`$to_collection_time_msecs`	(Optional) A unix timestamp in milliseconds. All epochs with a collection time earlier than the specified value will be returned.
`$sort`	(Optional) Specifies the sort order for the returned results. Valid values are collection_time, analysis_start_time, analysis_completion_time. More than one sort order can be specified using comma separated values. Prepend the value with '-' to specify descending order. For example: $sort=collection_time,-analysis_completion_time will sort the results first by collection time in ascending order and then by analysis completion time in descending order. If $sort is not specified, returned epochs will be sorted by their collection time in descending order.

Get Epochs by Collection Timestamp

A `GET` request with $from_collection_time_msec, $to_collection_time_msecs returns all epochs within the specified collection time range. Additional query parameters documented above can also be specified to apply more filters.

Example Request

```
GET /api/v1/event-
services/epochs?$from_collection_time_msecs=1591145371000&$to_collection_time_msecs=15
91145373000&$sort=-collection_time HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1642

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "assurance_info" : [ {
        "severity" : "info",
        "count" : 0
      }, {
        "severity" : "warning",
        "count" : 0
      }, {
        "severity" : "minor",
        "count" : 0
      }, {
        "severity" : "major",
        "count" : 0
      }, {
        "severity" : "critical",
        "count" : 0
      } ],
      "status" : "FINISHED",
      "collection_time_rfc3339" : "2020-06-03T00:49:31Z",
      "analysis_start_time_rfc3339" : "2020-06-03T00:49:31Z",
      "appliance_version" : "4.1.2",
      "is_offline" : false,
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "links" : [ {
        "rel" : "self",
        "href" : "http://localhost:8080/api/v1/event-
```

```
services/epochs?$epoch_id=20069561-b1fb72fa-9cbf-465b-83c7-a3b176733a58"
      } ],
      "collection_time_msecs" : 1591145371000,
      "analysis_completion_time_msecs" : 1591155371000,
      "analysis_completion_time_rfc3339" : "2020-06-03T03:36:11Z",
      "fabric_id" : "8f979da4-fb9a-44ae-b298-924e2bd1044c",
      "epoch_id" : "20069561-b1fb72fa-9cbf-465b-83c7-a3b176733a58",
      "processed" : true,
      "analysis_start_time_msecs" : 1591145371000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/event-
services/epochs?$page=0&$size=50&$sort=-collection_time"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Request Parameters

Parameter	Description
$from_collection_time_msecs	(Optional) A unix timestamp in milliseconds. All epochs with a collection time later than or equal to the specified value will be returned.
$to_collection_time_msecs	(Optional) A unix timestamp in milliseconds. All epochs with a collection time earlier than the specified value will be returned.
$sort	(Optional) Specifies the sort order for the returned results. Valid values are collection_time, analysis_start_time, analysis_completion_time. More than one sort order can be specified using comma separated values. For example: $sort=collection_time,-analysis_completion_time. If $sort is not specified, returned epochs will be sorted by their collection time in descending order.

Get Latest Epoch

A GET request with values specified for $page, $size, and $sort query parameters can return the latest epoch in the system. Specifying a sort criteria to sort the epochs by analysis start time in descending order, and then picking the first record in the list through $page=0 and $size=1 returns

the latest epoch. Additional query parameters documented above can also be specified to apply more filters.

Example Request

```
GET /api/v1/event-services/epochs?$page=0&$size=1&$sort=-analysis_start_time HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2088

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "assurance_info" : [ {
        "severity" : "info",
        "count" : 0
      }, {
        "severity" : "warning",
        "count" : 0
      }, {
        "severity" : "minor",
        "count" : 0
      }, {
        "severity" : "major",
        "count" : 0
      }, {
        "severity" : "critical",
        "count" : 0
      } ],
      "status" : "FINISHED",
      "collection_time_rfc3339" : "5944-10-21T23:12:14Z",
      "analysis_start_time_rfc3339" : "5944-10-21T23:12:14Z",
      "appliance_version" : "4.1.2",
      "is_offline" : false,
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "links" : [ {
        "rel" : "self",
```

```
          "href" : "http://localhost:8080/api/v1/event-
services/epochs?$epoch_id=50138515-b7ec0e72-2d0a-435e-8044-0d3d39735053"
      } ],
      "collection_time_msecs" : 125432752334000,
      "analysis_completion_time_msecs" : 125432762334000,
      "analysis_completion_time_rfc3339" : "5944-10-22T01:58:54Z",
      "fabric_id" : "8f979da4-fb9a-44ae-b298-924e2bd1044c",
      "epoch_id" : "50138515-b7ec0e72-2d0a-435e-8044-0d3d39735053",
      "processed" : true,
      "analysis_start_time_msecs" : 125432752334000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "first",
        "href" : "https://localhost/api/v1/event-
services/epochs?$page=0&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "self",
        "href" : "https://localhost/api/v1/event-
services/epochs?$page=0&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "next",
        "href" : "https://localhost/api/v1/event-
services/epochs?$page=1&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "last",
        "href" : "https://localhost/api/v1/event-
services/epochs?$page=171&$size=1&$sort=-analysis_start_time"
      } ],
      "total_count" : 172,
      "has_more_data" : true,
      "page_size" : 1,
      "current_page_number" : 0,
      "total_page_count" : 172
    }
  }
}
```

Request Parameters

Parameter	Description
$page	(Optional) The page number of the paginated results to return. Defaults to 0 if not specified. The 'data_summary' element in the response provides links to fetch data for remaining pages.
$size	(Optional) The number of epochs to return in a single page. Defaults to 50 if not specified.

Parameter	Description
$sort	(Optional) Specifies the sort order. Valid values are collection_time, analysis_start_time, analysis_completion_time. More than one sort order can be specified using comma separated values. If $sort is not specified, returned epochs will be sorted by default by their collection time in descending order.

Smart Events Operations

Use the APIs in this section to view smart events triggered in Cisco NAE.

A smart event provides information about the state of your network at the time represented by an epoch. For more information about smart events, see the *Cisco Network Assurance Engine Fundamentals Guide* and *Cisco Network Assurance Engine Smart Events Reference Guide*.

These APIs require an active authenticated API session. The following table shows the role requirements for executing these APIs.

Operation	Minimum Role
Get Smart Event Summary	User
Get Smart Event Detail	User

Get Smart Event Summary

A `GET` request returns a summary of all requested smart events. Using request parameters, you can restrict the summary by category, subcategory, mnemonics, or severity. For allowed values of these parameters, see the *Cisco Network Assurance Engine Smart Events Reference Guide*. You can also specify a page number and page size.

Example Request

```
GET /api/v1/event-services/smart-events?$epoch_id=63139965-665d3262-60ab-41ea-80cf-
3f3f2dc29fbe HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 3604


{
```

```
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "identifier" : "63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe-
4ee045ac03b5eb0a191ef52d182c53f5",
      "generating_appliance_version" : "4.1.2",
      "reserved_fields" : {
        "database_schema_version" : 1,
        "json_schema_version" : 1,
        "object_type" : "CNAE:reservedFields"
      },
      "smart_event_info" : {
        "code" : 7005,
        "name" : "ACCESS_ENTITY_PROFILE_NOT_ASSOCIATED_WITH_ANY_DOMAINS",
        "event_code_major_version" : "1.0",
        "event_code_minor_version" : "1.0",
        "object_type" : "CNAE:smartEvent"
      },
      "category" : {
        "code" : 6,
        "name" : "CHANGE_ANALYSIS",
        "object_type" : "CNAE:eventCategory"
      },
      "sub_category" : {
        "code" : 30,
        "name" : "FORWARDING_POLICY",
        "object_type" : "CNAE:eventSubcategory"
      },
      "severity" : {
        "code" : 400,
        "name" : "EVENT_SEVERITY_MAJOR",
        "object_type" : "CNAE:eventSeverity"
      },
      "description" : "The access entity profile is not associated to any domain.",
      "epoch_uuid" : "63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe",
      "additional_details" : [ {
        "identifier" : "uni/infra/attentp-kilo_AEP_08",
        "object_types" : [ {
          "code" : 237,
          "name" : "CANDID_OBJECT_TYPE_ACCESS_ENTITY_PROFILE",
          "object_type" : "CNAE:candidObjectType"
        } ],
        "name" : "kilo_AEP_08"
      }, {
        "identifier" : "uni/tn-kilo",
        "object_types" : [ {
          "code" : 2,
          "name" : "CANDID_OBJECT_TYPE_TENANT",
```

```
          "object_type" : "CNAE:candidObjectType"
        } ],
        "name" : "kilo"
      }, {
        "identifier" : "uni/tn-kilo/ap-kilo-app3",
        "object_types" : [ {
          "code" : 8,
          "name" : "CANDID_OBJECT_TYPE_APP_PROFILE",
          "object_type" : "CNAE:candidObjectType"
        } ],
        "name" : "kilo-app3"
      }, {
        "identifier" : "uni/tn-kilo/ap-kilo-app3/epg-kilo_ctx1_bd1_epg08",
        "object_types" : [ {
          "code" : 7,
          "name" : "CANDID_OBJECT_TYPE_EPG",
          "object_type" : "CNAE:candidObjectType"
        } ],
        "name" : "kilo_ctx1_bd1_epg08"
      }, {
        "identifier" : 948,
        "object_types" : [ {
          "code" : 3001,
          "name" : "CANDID_OBJECT_TYPE_ENCAP_VLAN",
          "object_type" : "CNAE:candidObjectType"
        } ]
      } ],
      "object_type" : "CNAE:smartEventsSummary",
      "fabric_settings_dto" : {
        "uuid" : "137bf5f2-ba41-41a6-ad72-5a80de08e062",
        "display_name" : "QvQHzMQVVd",
        "application_id" : "cEmjlTeszX",
        "interval" : 471,
        "analysis_timeout_in_secs" : 0,
        "status" : "STOPPED",
        "unique_name" : "QvQHzMQVVd",
        "assured_network_type" : "ACI_FABRIC",
        "apic_hostnames" : [ "ogLLsYQTjD.cisco.com", "OqBhHolZMl.cisco.com",
"qSYMcYEidK.cisco.com", "RUrTCrvvBi.cisco.com" ],
        "username" : "kkNdyXFncv",
        "active" : false,
        "operational_mode" : "ONLINE"
      },
      "links" : [ ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/event-services/smart-
events?$epoch_id=63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe&$page=0&$size=50"
      } ],
```

```
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Request parameters

Parameter	Description
`$epoch_id`	Epoch UUID to fetch. This is a mandatory parameter.
`$page`	Page number to fetch. Starts from 0.
`$size`	Page size to fetch. Valid value is 1-200 (inclusive).
`category`	Smart Event category to fetch. Valid categories are one of: COMPLIANCE,TENANT_ENDPOINT,TENANT_FORWARDING,TENANT_SECURITY,CHANGE_ANALYSIS,RESOURCE_UTILIZATION,SYSTEM. A comma separated list of two or more categories is allowed.
`sub_category`	Smart Event sub_category to fetch. Example sub_categories: CONTRACT_SECURITY,ENDPOINT_LEARNING, etc. A comma separated list of two or more sub_categories is allowed. For a list of all sub_categories, refer to the 'Cisco NAE Smart Events Reference Guide'. You may use this parameter without the category parameter. Note that the API will not return results if given an invalid combination of category and sub_category.
`mnemonic`	Smart Event mnemonic (name) to fetch. Example mnemonics: ENFORCED_VRF_POLICY_VIOLATION,CONNECTED_EP_LEARNING_ERROR, etc. A comma separated list of two or more mnemonics is allowed. To get a list of all mnemonics, refer to the 'Cisco NAE Smart Events Reference Guide'. You may use this parameter without the category / sub_category parameter. Note that the API will not return results if given an invalid combination of category, sub_category, and mnemonic.

Parameter	Description
severity	Smart Event severity to fetch. Valid severities are one of: EVENT_SEVERITY_CRITICAL,EVENT_SEVERITY_MAJOR,EVENT_SEVERITY_MINOR,EVENT_SEVERITY_WARNING,EVENT_SEVERITY_INFO. A comma separated list of two or more severities is allowed.

Response fields

Path	Type	Description
value.data	Array	List of Smart Events.
value.data[].identifier	String	Smart Event UUID.
value.data[].generating_appliance_version	String	NAE appliance version that generated this Smart Event.
value.data[].smart_event_info	Object	Smart Event type information.
value.data[].smart_event_info.code	Number	Smart Event numeric code.
value.data[].smart_event_info.name	String	Smart Event mnemonic.
value.data[].smart_event_info.event_code_major_version	String	Smart Event major version.
value.data[].smart_event_info.event_code_minor_version	String	Smart Event minor version.
value.data[].category	Object	Smart Event category information.
value.data[].sub_category	Object	Smart Event subcategory information.
value.data[].severity	Object	Smart Event severity level.
value.data[].description	String	Smart Event description.
value.data[].epoch_uuid	String	Smart Event Epoch UUID.
value.data[].fabric_settings_dto	Object	Smart Event Assurance Group information.
value.data[].additional_details	Array	Array of objects summarizing the Smart Event instance.
value.data[].additional_details[].identifier	Varies	Identifier of the object.
value.data[].additional_details[].name	String	Name of the object.
value.data[].additional_details[].object_types	Array	Type describing the object.
value.data_summary	Object	Summary of the Smart Events returned.
value.data_summary.links	Array	An array of links relevant to this request.

Path	Type	Description
`value.data_summary.links[].rel`	String	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	String	A link to the resource identified by the "rel" keyword.
`value.data_summary.page_size`	Number	Page size requested.
`value.data_summary.current_page_number`	Number	Response page number.
`value.data_summary.total_page_count`	Number	Total number of pages in response.

Get Smart Event Detail

A `GET` request returns the details of a single smart event.

Example Request

```
GET /api/v1/event-services/smart-events/detail?$event_id=63139965-665d3262-60ab-41ea-
80cf-3f3f2dc29fbe-4ee045ac03b5eb0a191ef52d182c53f5 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 4843

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "identifier" : "63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe-
4ee045ac03b5eb0a191ef52d182c53f5",
      "generating_appliance_version" : "4.1.2",
      "reserved_fields" : {
        "database_schema_version" : 1,
        "json_schema_version" : 1,
        "object_type" : "CNAE:reservedFields"
      },
      "smart_event_info" : {
        "code" : 7005,
```

```
                  "name" : "ACCESS_ENTITY_PROFILE_NOT_ASSOCIATED_WITH_ANY_DOMAINS",
                  "event_code_major_version" : "1.0",
                  "event_code_minor_version" : "1.0",
                  "object_type" : "CNAE:smartEvent"
              },
              "category" : {
                  "code" : 6,
                  "name" : "CHANGE_ANALYSIS",
                  "object_type" : "CNAE:eventCategory"
              },
              "sub_category" : {
                  "code" : 30,
                  "name" : "FORWARDING_POLICY",
                  "object_type" : "CNAE:eventSubcategory"
              },
              "severity" : {
                  "code" : 400,
                  "name" : "EVENT_SEVERITY_MAJOR",
                  "object_type" : "CNAE:eventSeverity"
              },
              "description" : "The access entity profile is not associated to any domain.",
              "epoch_uuid" : "63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe",
              "primary_affected_object" : {
                  "identifier" : "434980d919ba02d5",
                  "type" : "CANDID_OBJECT_TYPE_PRIMARY_KEY",
                  "name" : "434980d919ba02d5",
                  "composite_key" : [ {
                      "identifier" : "uni/infra/attentp-kilo_AEP_08",
                      "type" : "CANDID_OBJECT_TYPE_ACCESS_ENTITY_PROFILE",
                      "name" : "kilo_AEP_08",
                      "attributes" : [ {
                          "name" : "healthy",
                          "value" : false
                      } ]
                  } ]
              },
              "checks" : [ {
                  "code" : 3015,
                  "name" : "CC_EPG_ACCESS_ENTITY_PROFILE_NOT_ASSOCIATED_WITH_ANY_DOMAINS",
                  "additional_info" : {
                      "type" : "CANDID_OBJECT_TYPE_TABLE",
                      "name" : "EpgPathTable",
                      "associated_objects" : [ {
                          "type" : "CANDID_OBJECT_TYPE_ROW",
                          "associated_objects" : [ {
                              "identifier" : "uni/tn-kilo",
                              "type" : "CANDID_OBJECT_TYPE_TENANT",
                              "name" : "kilo",
                              "attributes" : [ {
                                  "name" : "healthy",
                                  "value" : false
```

```
          } ]
        }, {
          "identifier" : "uni/tn-kilo/ap-kilo-app3",
          "type" : "CANDID_OBJECT_TYPE_APP_PROFILE",
          "name" : "kilo-app3",
          "attributes" : [ {
            "name" : "healthy",
            "value" : false
          } ]
        }, {
          "identifier" : "uni/tn-kilo/ap-kilo-app3/epg-kilo_ctx1_bd1_epg08",
          "type" : "CANDID_OBJECT_TYPE_EPG",
          "name" : "kilo_ctx1_bd1_epg08",
          "attributes" : [ {
            "name" : "healthy",
            "value" : false
          } ]
        }, {
          "identifier" : "uni/tn-kilo/ap-kilo-app3/epg-
kilo_ctx1_bd1_epg08/rsnodeAtt-[topology/pod-2/node-8008]",
          "type" : "CANDID_OBJECT_TYPE_STATIC_LEAF_PATH_BINDING_INFORMATION",
          "name" : "[topology/pod-2/node-8008]",
          "attributes" : [ {
            "name" : "healthy",
            "value" : false
          } ]
        }, {
          "identifier" : 948,
          "type" : "CANDID_OBJECT_TYPE_ENCAP_VLAN",
          "name" : "948",
          "attributes" : [ {
            "name" : "healthy",
            "value" : false
          } ]
        }, {
          "identifier" : "STATIC",
          "type" : "CANDID_OBJECT_TYPE_EPG_PATH_TYPE",
          "name" : "STATIC"
        } ]
      } ]
    },
    "check_status" : 3,
    "object_type" : "CNAE:conditionCheck"
  } ],
  "object_type" : "CNAE:smartEventDetails",
  "fabric_settings_dto" : {
    "uuid" : "137bf5f2-ba41-41a6-ad72-5a80de08e062",
    "display_name" : "QvQHzMQVVd",
    "application_id" : "cEmjlTeszX",
    "interval" : 471,
    "analysis_timeout_in_secs" : 0,
```

```
        "status" : "STOPPED",
        "unique_name" : "QvQHzMQVVd",
        "assured_network_type" : "ACI_FABRIC",
        "apic_hostnames" : [ "ogLLsYQTjD.cisco.com", "OqBhHolZMl.cisco.com",
 "qSYMcYEidK.cisco.com", "RUrTCrvvBi.cisco.com" ],
        "username" : "kkNdyXFncv",
        "active" : false,
        "operational_mode" : "ONLINE"
      },
      "links" : [ ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/event-services/smart-
 events/detail?$event_id=63139965-665d3262-60ab-41ea-80cf-3f3f2dc29fbe-
 4ee045ac03b5eb0a191ef52d182c53f5"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Request parameters

Parameter	Description
`$event_id`	Smart Event UUID to fetch. This is a mandatory parameter.

Response fields

Path	Type	Description
`value.data[].identifier`	`String`	Smart Event UUID.
`value.data[].generating_appliance_version`	`String`	NAE appliance version that generated this Smart Event.
`value.data[].smart_event_info`	`Object`	Smart Event type information.
`value.data[].smart_event_info.code`	`Number`	Smart Event numeric code.
`value.data[].smart_event_info.name`	`String`	Smart Event mnemonic.
`value.data[].smart_event_info.event_code_major_version`	`String`	Smart Event major version.
`value.data[].smart_event_info.event_code_minor_version`	`String`	Smart Event minor version.
`value.data[].category`	`Object`	Smart Event category information.

Path	Type	Description
`value.data[].sub_category`	Object	Smart Event sub category information.
`value.data[].severity`	Object	Smart Event severity level.
`value.data[].description`	String	Smart Event description.
`value.data[].epoch_uuid`	String	Smart Event Epoch UUID.
`value.data[].fabric_settings_dto`	Object	Smart Event Assurance Group information.
`value.data[].primary_affected_object`	Object	Primary affected object on which this Smart Event instance is raised.
`value.data[].primary_affected_object.identifier`	String	Identifier of the object.
`value.data[].primary_affected_object.type`	String	Type of the object.
`value.data[].primary_affected_object.name`	String	Name of the object.
`value.data[].primary_affected_object.composite_key`	Array	Array of sub-objects that logically compose this object.
`value.data[].primary_affected_object.associated_objects`	Array	Array of sub-objects that are logically associated with this object.
`value.data[].checks`	Array	List of checks performed.
`value.data[].checks[].code`	Number	Numeric check code.
`value.data[].checks[].name`	String	Check mnemonic.
`value.data[].checks[].check_status`	Number	Status of the check.
`value.data[].checks[].additional_info`	Object	Information describing this check. Follows the same structure as that of primary_affected_object.
`value.data_summary`	Object	Summary of the Smart Events returned.
`value.data_summary.links`	Array	An array of links relevant to this request.
`value.data_summary.links[].rel`	String	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	String	A link to the resource identified by the "rel" keyword.

User Management Operations

Use the APIs in this section to create, read, update, or delete a local user account within Cisco NAE.

In Cisco NAE, you can choose to configure and authenticate users locally on the Cisco NAE

appliance itself instead of using an external AAA server. For more information about User Management, see the *Cisco Network Assurance Engine Getting Started Guide.*

These APIs require an active authenticated API session. The following table shows the role requirements for executing these APIs.

Operation	Minimum Role
Create a User	Super Administrator
Change User Password	Note 1
Get User	Super Administrator
Get All Users	Super Administrator
Edit User	Note 1
Delete User	Super Administrator
Update Password Expiration Time	Super Administrator
Forgot Password	Note 1
Reset Password	Note 1

Note 1: Users can change only their own passwords and email addresses. Only a super administrator can make changes for others.

Create a User

A `POST` request creates a new user account and returns an HTTP status code of `201 CREATED` upon success. Only a super administrator can create a user account.

If `system_generated_password` is `true`, the Create User Password API will generate an email with a GUI link for setting the new password. The link in the email contains the one-time token as a URL parameter. Because an email is generated, SMTP must be configured and enabled in the appliance. For information about configuring SMTP, see *Cisco Network Assurance Engine Getting Started Guide.*

Example Request

```
POST /api/v1/config-services/users HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 182

{
   "email" : "UpOXzrkfew@cisco.com",
   "username" : "BVHtEwgvQT",
   "password" : "MQHMPLVeBOdmImV",
   "confirm_password" : "MQHMPLVeBOdmImV",
   "system_generated_password" : false
}
```

Example Response

```
HTTP/1.1 201 Created
Location: https://localhost/api/v1/config-services/users
Content-Type: application/json;charset=UTF-8
Content-Length: 1371

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-f762d604-4913-4e37-9761-4074aa72f6b0",
      "email" : "UpOXzrkfew@cisco.com",
      "username" : "BVHtEwgvQT",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-22T02:36:31Z",
        "millisecs" : 1903055791637
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/api/v1/config-services/users/e665caf5-f762d604-
4913-4e37-9761-4074aa72f6b0"
      }, {
        "rel" : "getUsers",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/api/v1/config-services/users/e665caf5-f762d604-
4913-4e37-9761-4074aa72f6b0"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/e665caf5-f762d604-
4913-4e37-9761-4074aa72f6b0"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/e665caf5-f762d604-
4913-4e37-9761-4074aa72f6b0/change-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Request Fields

Path	Type	Description
email	String	The user's email address.
username	String	User's NAE login username.
password	String	User's password.
system_generated_password	Boolean	Indicates whether the system must generate a random password or use the password provided by the user.
confirm_password	String	Confirm user's password.

Response Fields

Path	Type	Description
value.data.is_super_admin	Boolean	Indicates whether this user is a super admin.
value.data_summary	Object	The number of users returned.
value.data_summary.links	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.
value.data.uuid	String	UUID associated to this user.

Change User Password

A POST request changes a user password and returns an HTTP status code of 200 OK upon success. The requester must supply the current password and the new password.

If the system_generated_password request field is set to true, the Change User Password API will generate an email with a GUI link for resetting the password. The link in the email contains the one-time token as a URL parameter. Because an email is generated, SMTP must be configured and enabled in the appliance. For information about configuring SMTP, see *Cisco Network Assurance Engine Getting Started Guide*.

Only a super administrator can change the password of another user.

Example Request

```
POST /api/v1/config-services/users/4947a8f9-1ece-48cc-ae34-a1ab246dfb4b/change-
password HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 217

{
  "new_password" : "WNVtxDNNdxXjQoZ",
  "logged_in_user_password" : "XXiipDsxih",
  "confirm_password" : "WNVtxDNNdxXjQoZ",
  "system_generated_password" : false,
  "password_expiration_time_milli" : 1587695790615
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 703

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "4947a8f9-1ece-48cc-ae34-a1ab246dfb4b",
      "email" : "fnThpJKvzg@cisco.com",
      "username" : "NbUserRepositoryTesttDYPglFRMs",
      "password_expiry_date" : {
        "rfc3339" : "2020-04-24T02:36:30Z",
        "millisecs" : 1587695790615
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users/4947a8f9-1ece-48cc-
ae34-a1ab246dfb4b/change-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 6. /api/v1/config-services/users/{userId}/change-password

Parameter	Description
userId	The UUID of the user to update.

Request Fields

Path	Type	Description
logged_in_user_password	String	Logged in user password. This field is mandatory for a user who is not a super admin.
new_password	String	User's new password.
confirm_password	String	Confirm user's password.

Path	Type	Description
system_generated_password	Boolean	Indicates whether the system must generate a random password or use the password provided by the user.
password_expiration_time_milli	Number	(Optional field) The user's password expiration time in milliseconds since epoch. Default value is the sum of current timestamp and the default password lifetime defined by administrator.

Response Fields

Path	Type	Description
value.data.email	String	The user's email address.
value.data.username	String	The user's NAE login username.
value.data.password_expiry_date.rfc3339	String	Password expiry date as String.
value.data.password_expiry_date.millisecs	Number	Password expiry date in milliseconds since epoch.
value.data.uuid	String	UUID associated to this user.
value.data.is_super_admin	Boolean	Indicates whether this user is a super admin.
value.data_summary	Object	The number of users returned.
value.data_summary.links	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Get User

A GET request returns a record of the user if a user with the specified ID is present.

Example Request

```
GET /api/v1/config-services/users/312f16fe-1c01-4b70-9109-d0199054b529 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1400

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "312f16fe-1c01-4b70-9109-d0199054b529",
      "email" : "PNRJVhRtTI@cisco.com",
      "username" : "NbUserRepositoryTestfsvMgzkPIZ",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-24T02:36:31Z",
        "millisecs" : 1903228591347
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"
      }, {
        "rel" : "getUsers",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestfsvMgzkPIZ/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 7. /api/v1/config-services/users/{userId}

Parameter	Description
`userId`	The UUID of the user to update.

Response Fields

Path	Type	Description
`value.data.email`	`String`	The user's email address.
`value.data.username`	`String`	The user's NAE login username.
`value.data.password_expiry_date.rfc3339`	`String`	Password expiry date as String.
`value.data.password_expiry_date.millisecs`	`Number`	Password expiry date in milliseconds since epoch.
`value.data.uuid`	`String`	UUID associated to this user.
`value.data.is_super_admin`	`Boolean`	Indicates whether this user is a super admin.
`value.data_summary`	`Object`	The number of users returned.
`value.data_summary.links`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get All Users

A `GET` request returns the records of all users.

Example Request

```
GET /api/v1/config-services/users HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 7379

{
```

```
    "success" : true,
    "value" : {
      "namespaces" : {
        "default" : "https://www.cisco.com/api/schema"
      },
      "data" : [ {
        "uuid" : "0742fada-61f8-44d3-b570-a73847be2a06",
        "email" : "ylCDJzdCFo@cisco.com",
        "username" : "admin",
        "password_expiry_date" : {
          "rfc3339" : "2030-04-24T02:36:30Z",
          "millisecs" : 1903228590563
        },
        "is_super_admin" : true,
        "links" : [ {
          "rel" : "self",
          "href" : "https://localhost/api/v1/config-services/users"
        }, {
          "rel" : "getUser",
          "href" : "https://localhost/api/v1/config-services/users/0742fada-61f8-44d3-
b570-a73847be2a06"
        }, {
          "rel" : "editUser",
          "href" : "https://localhost/api/v1/config-services/users/0742fada-61f8-44d3-
b570-a73847be2a06"
        }, {
          "rel" : "deleteUser",
          "href" : "https://localhost/api/v1/config-services/users/0742fada-61f8-44d3-
b570-a73847be2a06"
        }, {
          "rel" : "changePassword",
          "href" : "https://localhost/api/v1/config-services/users/0742fada-61f8-44d3-
b570-a73847be2a06/change-password"
        }, {
          "rel" : "forgotPassword",
          "href" : "https://localhost/api/v1/config-services/users/admin/forgot-
password"
        } ]
      }, {
        "uuid" : "4947a8f9-1ece-48cc-ae34-a1ab246dfb4b",
        "email" : "fnThpJKvzg@cisco.com",
        "username" : "NbUserRepositoryTesttDYPglFRMs",
        "password_expiry_date" : {
          "rfc3339" : "2020-04-24T02:36:30Z",
          "millisecs" : 1587695790615
        },
        "is_super_admin" : false,
        "links" : [ {
          "rel" : "self",
          "href" : "https://localhost/api/v1/config-services/users"
        }, {
```

```
      "rel" : "getUser",
      "href" : "https://localhost/api/v1/config-services/users/4947a8f9-1ece-48cc-
ae34-a1ab246dfb4b"
    }, {
      "rel" : "editUser",
      "href" : "https://localhost/api/v1/config-services/users/4947a8f9-1ece-48cc-
ae34-a1ab246dfb4b"
    }, {
      "rel" : "deleteUser",
      "href" : "https://localhost/api/v1/config-services/users/4947a8f9-1ece-48cc-
ae34-a1ab246dfb4b"
    }, {
      "rel" : "changePassword",
      "href" : "https://localhost/api/v1/config-services/users/4947a8f9-1ece-48cc-
ae34-a1ab246dfb4b/change-password"
    }, {
      "rel" : "forgotPassword",
      "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTesttDYPglFRMs/forgot-password"
    } ]
  }, {
    "uuid" : "b8afed23-785a-4c18-a713-5a705aec9b4e",
    "email" : "yyiptwHoMo@cisco.com",
    "username" : "NbUserRepositoryTestsPwjEwSVMC",
    "password_expiry_date" : {
      "rfc3339" : "2030-04-24T02:36:30Z",
      "millisecs" : 1903228590992
    },
    "is_super_admin" : false,
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/api/v1/config-services/users"
    }, {
      "rel" : "getUser",
      "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e"
    }, {
      "rel" : "editUser",
      "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e"
    }, {
      "rel" : "deleteUser",
      "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e"
    }, {
      "rel" : "changePassword",
      "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e/change-password"
    }, {
      "rel" : "forgotPassword",
      "href" : "https://localhost/api/v1/config-
```

services/users/NbUserRepositoryTestsPwjEwSVMC/forgot-password"
      }]
    }, {
      "uuid" : "0fcf3f9c-541e-42cf-8927-c8245f9106f0",
      "email" : "edeIYNFVxS@cisco.com",
      "username" : "NbUserRepositoryTestooYCGPjTgr",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-24T02:36:31Z",
        "millisecs" : 1903228591168
      },
      "is_super_admin" : false,
      "links" : [{
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/api/v1/config-services/users/0fcf3f9c-541e-42cf-
8927-c8245f9106f0"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/api/v1/config-services/users/0fcf3f9c-541e-42cf-
8927-c8245f9106f0"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/0fcf3f9c-541e-42cf-
8927-c8245f9106f0"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/0fcf3f9c-541e-42cf-
8927-c8245f9106f0/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestooYCGPjTgr/forgot-password"
      }]
    }, {
      "uuid" : "312f16fe-1c01-4b70-9109-d0199054b529",
      "email" : "PNRJVhRtTI@cisco.com",
      "username" : "NbUserRepositoryTestfsvMgzkPIZ",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-24T02:36:31Z",
        "millisecs" : 1903228591347
      },
      "is_super_admin" : false,
      "links" : [{
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"

```
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/312f16fe-1c01-4b70-
9109-d0199054b529/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestfsvMgzkPIZ/forgot-password"
      } ]
    }, {
      "uuid" : "e42d3c37-d04e-44ce-a3a4-41737843a1ab",
      "email" : "mFkHLNcqsi@cisco.com",
      "username" : "NbUserRepositoryTestyoZDJPfpER",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-24T02:36:31Z",
        "millisecs" : 1903228591480
      },
      "is_super_admin" : false,
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/api/v1/config-services/users/e42d3c37-d04e-44ce-
a3a4-41737843a1ab"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/api/v1/config-services/users/e42d3c37-d04e-44ce-
a3a4-41737843a1ab"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/e42d3c37-d04e-44ce-
a3a4-41737843a1ab"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/e42d3c37-d04e-44ce-
a3a4-41737843a1ab/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestyoZDJPfpER/forgot-password"
      } ]
    } ],
```

```
        "data_summary" : {
          "links" : [ {
            "rel" : "createUser",
            "href" : "https://localhost/api/v1/config-services/users"
          } ],
          "total_count" : 6,
          "has_more_data" : false
        }
      }
    }
  }
```

Response Fields

Path	Type	Description
value.data[].email	String	The user's email address.
value.data[].username	String	The user's NAE login username.
value.data[].uuid	String	UUID associated to this user.
value.data[].password_expiry_date.rfc3339	String	Password expiry date as String.
value.data[].password_expiry_date.millisecs	Number	Password expiry date in milliseconds since epoch.
value.data[].is_super_admin	Boolean	Indicates whether this user is a super admin.
value.data[].links	Array	An array of links relevant to this request.
value.data[].links[].rel	String	Self Link
value.data[].links[].href	String	Self Link
value.data_summary	Object	The number of users returned.
value.data_summary.links	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Edit User

A PUT request updates the email address of the user if a user with the specified ID is present. Only a super administrator can edit the settings of another user.

Example Request

```
PUT /api/v1/config-services/users/b8afed23-785a-4c18-a713-5a705aec9b4e HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 38


{
  "email" : "yyiptwHoMo@cisco.com"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1153

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "b8afed23-785a-4c18-a713-5a705aec9b4e",
      "email" : "yyiptwHoMo@cisco.com",
      "username" : "NbUserRepositoryTestsPwjEwSVMC",
      "password_expiry_date" : {
        "rfc3339" : "2030-04-24T02:36:30Z",
        "millisecs" : 1903228590992
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/b8afed23-785a-4c18-
a713-5a705aec9b4e/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestsPwjEwSVMC/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 8. /api/v1/config-services/users/{userId}

Parameter	Description
userId	The UUID of the user to update.

Response Fields

Path	Type	Description
value.data.email	String	The user's email address.
value.data.username	String	The user's NAE login username.
value.data.uuid	String	UUID associated to this user.
value.data.password_expiry_date.rfc3339	String	Password expiry date as String.
value.data.password_expiry_date.millisecs	Number	Password expiry date in milliseconds since epoch.
value.data.is_super_admin	Boolean	Indicates whether this user is a super admin.
value.data_summary	Object	The number of users returned.
value.data_summary.links	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Delete User

A DELETE request deletes a user if a user with the specified ID is present. Only a super administrator can delete a user account.

Example Request

```
DELETE /api/v1/config-services/users/6a8bd97a-7d8c-4de6-9457-acf907e48c7c HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
sessionsToEvictUserId: 6a8bd97a-7d8c-4de6-9457-acf907e48c7c
Content-Type: application/json;charset=UTF-8
Content-Length: 471

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users/6a8bd97a-7d8c-4de6-
9457-acf907e48c7c"
      }, {
        "rel" : "createUser",
        "href" : "https://localhost/api/v1/config-services/users"
      } ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 9. /api/v1/config-services/users/{userId}

Parameter	Description
userId	The UUID of the user to update.

Response Fields

Path	Type	Description
value.data_summary	Object	The number of users returned.
value.data_summary.links	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Update password expiration time

A `PATCH` request updates the password expiration time of the user if a user with the specified ID is present. User with the specified ID will be logged out if the password expires as a result of this

operation. Only a super administrator can update the password expiration time of another user. Administrators can not update their own password expiration time.

Example Request

```
PATCH /api/v1/config-services/users/8adcf10c-7d58-4a0e-ac7f-0bd29da628f7/change-
password HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 54

{
  "password_expiration_time_milli" : 1587695791931
}
```

Example Response

```
HTTP/1.1 200 OK
sessionsToEvictUserId: 8adcf10c-7d58-4a0e-ac7f-0bd29da628f7
Content-Type: application/json;charset=UTF-8
Content-Length: 1169

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "8adcf10c-7d58-4a0e-ac7f-0bd29da628f7",
      "email" : "XUstkeEDSn@cisco.com",
      "username" : "NbUserRepositoryTestJXcODenPYA",
      "password_expiry_date" : {
        "rfc3339" : "2020-04-24T02:36:31Z",
        "millisecs" : 1587695791931
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-services/users/8adcf10c-7d58-4a0e-
ac7f-0bd29da628f7/change-password"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/api/v1/config-services/users/8adcf10c-7d58-4a0e-
ac7f-0bd29da628f7"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/api/v1/config-services/users/8adcf10c-7d58-4a0e-
ac7f-0bd29da628f7/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestJXcODenPYA/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 10. /api/v1/config-services/users/{userId}/change-password

Parameter	Description
`userId`	The UUID of the user to update

Response Fields

Path	Type	Description
`value.data.email`	`String`	The user's email address.
`value.data.username`	`String`	The user's NAE login username.
`value.data.password_expiry_date.rfc3339`	`String`	Password expiry date as String.
`value.data.password_expiry_date.millisecs`	`Number`	Password expiry date in milliseconds since epoch.
`value.data.uuid`	`String`	UUID associated to this user.
`value.data.is_super_admin`	`Boolean`	Indicates whether this user is a super admin.
`value.data_summary`	`Object`	The number of users returned.
`value.data_summary.links`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Forgot Password

A `POST` request initiates a two-step user password recovery if a user with the specified username is present. For a normal password change by a user, use the Change User Password API, but if the current password has been forgotten, use this API followed by Reset Password.

The Forgot Password API provides a URL for the next step (Reset Password) in the response structure at `value.data_summary.links`, where "rel":"resetPassword". The provided URL contains a one-time token for resetting the password.

The Forgot Password API also generates an email with a GUI link for resetting the password. The link in the email contains the one-time token as a URL parameter. Because an email is generated, SMTP must be configured and enabled in the appliance. For information about configuring SMTP, see *Cisco Network Assurance Engine Getting Started Guide.*

Example Request

```
POST /api/v1/config-services/users/NbUserRepositoryTestooYCGPjTgr/forgot-password
HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 536

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/config-
services/users/NbUserRepositoryTestooYCGPjTgr/forgot-password"
      }, {
        "rel" : "resetPassword",
        "href" : "https://localhost/api/v1/config-services/users/8db87607-bfc5-441d-
a122-287af63fb053/reset-password"
      } ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 11. /api/v1/config-services/users/{username}/forgot-password

Parameter	Description
`username`	Forgot-password

Reset Password

A `POST` request resets a forgotten user password to a new password provided in the request structure. This API is the second step in a two-step user password recovery operation. Send this API after you send a Forgot Password API. The URL of this API must contain a one-time reset token that was provided in the response structure of the Forgot Password request. The URL form for the Reset Password API is:

```
POST /api/v1/config-services/users/{token}/reset-password
```

For convenience, the Forgot Password API returns a valid URL for the Reset Password API in the response structure at `value.data_summary.links` under "rel":"resetPassword". To set the new password, call that URL with a request structure that includes the new password, as shown in the

example below.

As an alternative, you can use the password reset link provided in the email generated by the [Forgot Password](#) API to reset the password using a browser.

Example Request

```
POST /api/v1/config-services/users/tlhJGLdpjJGwiap/reset-password HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
Content-Length: 82


{
   "new_password" : "jzRklQCkcHxZYJe",
   "confirm_password" : "jzRklQCkcHxZYJe"
}
```

Example Response

```
HTTP/1.1 200 OK
sessionsToEvictUserId: e1e8e2b3-dd77-444b-b7c2-db31952e55a6
Content-Type: application/json;charset=UTF-8
Content-Length: 398


{
   "success" : true,
   "messages" : [ {
     "code" : 9007,
     "severity" : "INFO",
     "message" : "The password for user NbUserRepositoryTesteZETSESmEG has been
successfully changed"
   } ],
   "value" : {
     "namespaces" : {
       "default" : "https://www.cisco.com/api/schema"
     },
     "data_summary" : {
       "links" : [ ],
       "total_count" : 0,
       "has_more_data" : false
     }
   }
}
```

Path Parameters

Table 12. /api/v1/config-services/users/{token}/reset-password

Parameter	Description
token	Token generated when password recovery is initiated.

Session Management Operations

Use the APIs in this section to view or delete active user sessions in Cisco NAE.

These APIs require an active authenticated API session. The following table shows the role requirements for executing these APIs.

Operation	Minimum Role
View All Sessions	Super Administrator
View a Single Session	Super Administrator
Delete a Session	Super Administrator

View All Sessions

Request

```
GET /api/v1/sessions HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1050

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "session_id" : "db5632d9-5644-4401-97f2-8f89034237ad",
      "username" : "admin",
      "domain" : "Local",
      "created_time" : {
        "rfc3339" : "2020-04-24T02:57:17Z",
        "millisecs" : 1587697037936
      },
      "last_accessed_time" : {
        "rfc3339" : "2020-04-24T02:57:17Z",
        "millisecs" : 1587697037936
      },
      "expire_time" : {
        "rfc3339" : "2020-04-24T03:27:17Z",
        "millisecs" : 1587698837936
      },
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/sessions/db5632d9-5644-4401-97f2-
8f89034237ad"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/sessions?$page=0&$size=50"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Request Parameters

Parameter	Description
`$domain`	An optional parameter to specify the domain user belongs to.
`$username`	An optional parameter to specify the username of the user that session belongs to. Username can be used only in combination with domain query param
`$page`	The page number of the paginated results to return. It is an optional param, and defaults to 0 if not specified.'data_summary' element in the response provides links to fetch data for remaining pages.
`$size`	An optional parameter to specify the number of epochs to return in a single page. Defaults to 50 if not specified.

Response Fields

Path	Type	Description
`value.data[].session_id`	`String`	Sessions ID
`value.data[].username`	`String`	Username associated with this session
`value.data[].domain`	`String`	Domain associated with the user
`value.data[].created_time.rfc3339`	`String`	Time at which the session is created, in RFC format
`value.data[].created_time.millisecs`	`Number`	Time at which the session is created, in milliseconds
`value.data[].last_accessed_time.rfc3339`	`String`	Time at which the session is last accessed, in RFC format
`value.data[].last_accessed_time.millisecs`	`Number`	Time at which the session is last accessed, in milliseconds
`value.data[].expire_time.rfc3339`	`String`	Time at which the session is expired, in RFC format
`value.data[].expire_time.millisecs`	`Number`	Time at which the session is expired, in milliseconds
`value.data[].links`	`Array`	Provides links to access further relevant information for this session
`value.data[].links.[].rel`	`String`	A link to the resource identified by the "rel" keyword
`value.data[].links.[].href`	`String`	A keyword indicating the type of link in the "href" field
`value.data_summary`	`Object`	Summary of the sessions returned

Path	Type	Description
`value.data_summary.links`	`Array`	An array of links relevant to this request
`value.data_summary.links.[].rel`	`String`	A link to the resource identified by the "rel" keyword
`value.data_summary.links.[].href`	`String`	A keyword indicating the type of link in the "href" field
`value.data_summary.page_size`	`Number`	Page size requested
`value.data_summary.current_page_number`	`Number`	Response page number
`value.data_summary.total_page_count`	`Number`	Total number of pages in response

View a Single Session

Request

```
GET /api/v1/sessions/db5632d9-5644-4401-97f2-8f89034237ad HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 989

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "session_id" : "db5632d9-5644-4401-97f2-8f89034237ad",
      "username" : "admin",
      "domain" : "Local",
      "created_time" : {
        "rfc3339" : "2020-04-24T02:57:17Z",
        "millisecs" : 1587697037936
      },
      "last_accessed_time" : {
        "rfc3339" : "2020-04-24T02:57:17Z",
        "millisecs" : 1587697037936
      },
      "expire_time" : {
        "rfc3339" : "2020-04-24T03:27:17Z",
        "millisecs" : 1587698837936
      },
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/sessions/db5632d9-5644-4401-97f2-
8f89034237ad"
      }, {
        "rel" : "deleteSession",
        "href" : "https://localhost/api/v1/sessions/db5632d9-5644-4401-97f2-
8f89034237ad"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Response Fields

Path	Type	Description
`value.data.session_id`	`String`	Sessions ID

Path	Type	Description
`value.data.username`	`String`	Username associated with this session
`value.data.domain`	`String`	Domain associated with the user
`value.data.created_time.rfc3339`	`String`	Time at which the session is created, in RFC format
`value.data.created_time.millisecs`	`Number`	Time at which the session is created, in milliseconds
`value.data.last_accessed_time.rfc3339`	`String`	Time at which the session is last accessed, in RFC format
`value.data.last_accessed_time.millisecs`	`Number`	Time at which the session is last accessed, in milliseconds
`value.data.expire_time.rfc3339`	`String`	Time at which the session is expired, in RFC format
`value.data.expire_time.millisecs`	`Number`	Time at which the session is expired, in milliseconds
`value.data.links`	`Array`	Provides links to access further relevant information for this session
`value.data_summary`	`Object`	Summary of the session returned
`value.data_summary.links`	`Array`	An array of links relevant to this request
`value.data_summary.links.[].rel`	`String`	A link to the resource identified by the "rel" keyword
`value.data_summary.links.[].href`	`String`	A keyword indicating the type of link in the "href" field

Delete a Session

Request

```
DELETE /api/v1/sessions/5a670c3a-0d02-4edd-8e17-e1ef6b756428 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 227

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 13. /api/v1/sessions/{sessionId}

Parameter	Description
sessionId	The UUID of the session to delete

Compliance Requirement Operations

Use the APIs in this section to create, read, update, or delete a compliance requirement for Cisco NAE.

> ℹ️ You must configure the Traffic Selectors before configuring the Compliance Requirement and the Compliance Requirement Sets (in that order of sequence).

These APIs require an active authenticated API session. The minimum role for executing these APIs is User.

Create a Requirement

A POST request creates a requirement and returns an HTTP status code of 200 upon success.

Example Request

```
POST /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 695

{
  "name" : "AsYiTPkjXs",
  "description" :
"mNvTLvfZQLwwncKqpCAOdLoeLoIFqIGbFVFmgsiTCCYgkVXtkeDnMczCoLWsbzoDewymUEMWCggaSAcezkRqB
dZjProgEQiSCqql",
  "config_compliance_parameter" : {
    "and_parameters" : [ {
      "parameter" : "CCP_ARP_FLOODING",
      "value" : "No",
      "operator" : "EQUAL_TO"
    }, {
      "parameter" : "CCP_BD_ENFORCEMENT",
      "value" : "Yes",
      "operator" : "EQUAL_TO"
    }, {
      "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
      "value" : "bd-flood",
      "operator" : "EQUAL_TO"
    } ]
  },
  "epg_selector_a" : "arTwwYkMAp",
  "requirement_type" : "CONFIGURATION_COMPLIANCE",
  "enable_aggregate_event_for_tenant" : false,
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2259

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-52a26259-3d72-42bb-8c80-480323b932fd",
      "name" : "AsYiTPkjXs",
```

```
      "description" :
"mNvTLvfZQLwwncKqpCAOdLoeLoIFqIGbFVFmgsiTCCYgkVXtkeDnMczCoLWsbzoDewymUEMWCggaSAcezkRqB
dZjProgEQiSCqql",
      "config_compliance_parameter" : {
        "and_parameters" : [ {
          "parameter" : "CCP_ARP_FLOODING",
          "value" : "No",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_ENFORCEMENT",
          "value" : "Yes",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
          "value" : "bd-flood",
          "operator" : "EQUAL_TO"
        } ]
      },
      "epg_selector_a" : "arTwwYkMAp",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "enable_aggregate_event_for_tenant" : false,
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-52a26259-
3d72-42bb-8c80-480323b932fd"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-52a26259-
3d72-42bb-8c80-480323b932fd"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-52a26259-
3d72-42bb-8c80-480323b932fd"
      } ],
      "total_count" : 1,
```

```
        "has_more_data" : false
    }
  }
}
```

Request Fields

Path	Type	Description
name	String	Name of the requirement.
description	String	Description of the requirement.
epg_selector_a	String	Name of the EPG selector A.
epg_selector_b	String	Name of the EPG selector B.
traffic_selector	String	Name of the traffic selector.
requirement_type	String	Type of the requirement. Can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION, SLA.
communication_type	String	Type of communication, can be : MUST_NOT, MUST, MAY.
is_all_traffic	Boolean	Boolean value indicating whether the communication is all traffic.
enable_aggregate_event_for_tenant	Boolean	Boolean value indicating whether INFO events are raised for every tenant or every EPG pair when the compliance requirement is satisfied.
config_compliance_parameter.and_parameters[].parameter	String	Type of the parameter based on which events will be raised.
config_compliance_parameter.and_parameters[].value	String	String value of the configuration compliance parameter.
config_compliance_parameter.and_parameters[].operator	String	Operator of the configuration compliance parameter - it can be obtained through fetching.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier for the requirement.
value.data.name	String	Name of the requirement.
value.data.description	String	Description of the requirement.

Path	Type	Description
`value.data.epg_selector_a`	`String`	Name of the EPG selector A.
`value.data.epg_selector_b`	`String`	Name of the EPG selector B.
`value.data.traffic_selector`	`String`	Name of the traffic selector.
`value.data.requirement_type`	`String`	Type of the requirement. Can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION, SLA.
`value.data.communication_type`	`String`	Type of communication, can be : MUST_NOT, MUST, MAY.
`value.data.is_all_traffic`	`Boolean`	Boolean value indicating whether the communication is all traffic.
`value.data.enable_aggregate_event_for_tenant`	`Boolean`	Boolean value indicating whether INFO events are raised for every tenant or every EPG pair when the compliance requirement is satisfied.
`value.data.config_compliance_parameter.and_parameters[].parameter`	`String`	Type of the parameter based on which events will be raised.
`value.data.config_compliance_parameter.and_parameters[].value`	`String`	String value of the configuration compliance parameter.
`value.data.config_compliance_parameter.and_parameters[].operator`	`String`	Operator of the configuration compliance parameter - it can be obtained through fetching.
`value.data.config_compliance_parameter.and_parameters[]`	`Array`	List of parameters that will be verified.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get Requirement

A GET request returns a record of the requirement if a requirement with the specified ID is present.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements/e665caf5-d90d5f9b-eb0c-4a72-82b0-
f73eeedd72fe HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2502

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-d90d5f9b-eb0c-4a72-82b0-f73eeedd72fe",
      "name" : "mJSTKiJppg",
      "description" :
"DwieeLikTNbqYUnbzjIHyEYlLdRszFtlbuuhOJJmeaCYcLMfQflQfsbfCHJifbnqWUjNEWKYValqqpvcczCeE
RIaNkJDfBiZwrhr",
      "config_compliance_parameter" : {
        "and_parameters" : [ {
          "parameter" : "CCP_ARP_FLOODING",
          "value" : "No",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_ENFORCEMENT",
          "value" : "Yes",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
          "value" : "bd-flood",
          "operator" : "EQUAL_TO"
        } ]
      },
      "epg_selector_a" : "QuAGohXyow",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
```

```
      "is_all_traffic" : false,
      "enable_aggregate_event_for_tenant" : false,
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-d90d5f9b-
eb0c-4a72-82b0-f73eeedd72fe"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-d90d5f9b-
eb0c-4a72-82b0-f73eeedd72fe"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "saveRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-d90d5f9b-
eb0c-4a72-82b0-f73eeedd72fe"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-d90d5f9b-
eb0c-4a72-82b0-f73eeedd72fe"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 14. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/e665caf5-d90d5f9b-eb0c-4a72-82b0-f73eeedd72fe

Parameter	Description
id	Unique identifier of the requirement.

Response Fields

Path	Type	Description
`value.data.uuid`	`String`	Unique identifier for the requirement resource.
`value.data.name`	`String`	Name of the requirement.
`value.data.description`	`String`	Description of the requirement.
`value.data.epg_selector_a`	`String`	Name of the EPG selector A.
`value.data.epg_selector_b`	`String`	Name of the EPG selector B.
`value.data.traffic_selector`	`String`	Name of the traffic selector.
`value.data.requirement_type`	`String`	Type of the requirement. Can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION, SLA.
`value.data.communication_type`	`String`	Type of communication, can be : MUST_NOT, MUST, MAY.
`value.data.is_all_traffic`	`Boolean`	Boolean value indicating whether the communication is all traffic.
`value.data.enable_aggregate_event_for_tenant`	`Boolean`	Boolean value indicating whether INFO events are raised for every tenant or every EPG pair when the compliance requirement is satisfied.
`value.data.config_compliance_parameter.and_parameters[].parameter`	`String`	Type of the parameter based on which events will be raised.
`value.data.config_compliance_parameter.and_parameters[].value`	`String`	String value of the configuration compliance parameter.
`value.data.config_compliance_parameter.and_parameters[].operator`	`String`	Operator of the configuration compliance parameter - it can be obtained through fetching.
`value.data.config_compliance_parameter.and_parameters[]`	`Array`	List of parameters that will be verified.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Path	Type	Description
`value.data_summary.links[]`	Array	An array of links relevant to this request.
`value.data_summary.links[].rel`	String	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	String	A link to the resource identified by the "rel" keyword.

Get Requirements

A `GET` request returns the records of all requirements.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements?$page=0&size=100&$sort=requirement_name
HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2407

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "e665caf5-3b5d3ef9-31d2-4f25-b85d-a0555874cbba",
      "name" : "jTYmUURprP",
      "description" :
"bssHZMqDPhVmpFCbDLxtHpXWdhYBjfwXtuHdAUsVtGSGxvRdHiNuFHXSEsHdcWIBVBrsUipOYmTqFSaXjJpVb
nIemLuTsGhBASsF",
      "config_compliance_parameter" : {
        "and_parameters" : [ {
          "parameter" : "CCP_ARP_FLOODING",
          "value" : "No",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_ENFORCEMENT",
          "value" : "Yes",
```

```
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
          "value" : "bd-flood",
          "operator" : "EQUAL_TO"
        } ]
      },
      "epg_selector_a" : "AFKoLItlSN",
      "traffic_selector" : "ALL TRAFFIC",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "enable_aggregate_event_for_tenant" : false,
      "links" : [ {
        "rel" : "getRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-3b5d3ef9-
31d2-4f25-b85d-a0555874cbba"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-3b5d3ef9-
31d2-4f25-b85d-a0555874cbba"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-3b5d3ef9-
31d2-4f25-b85d-a0555874cbba"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements"
      }, {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-
requirement/requirements?$page=0&$size=100&$sort=requirement_name"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 100,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Response Fields

Path	Type	Description
`value.data[].uuid`	`String`	Unique identifier of the requirement.
`value.data[].name`	`String`	Name of the requirement.
`value.data[].description`	`String`	Description of the requirement.
`value.data[].epg_selector_a`	`String`	Name of the EPG selector A.
`value.data[].requirement_type`	`String`	Type of the requirement, can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION, SLA.
`value.data[].is_all_traffic`	`Boolean`	Boolean value indicating whether the communication is all traffic.
`value.data[].enable_aggregate_event_for_tenant`	`Boolean`	Boolean value indicating whether the info events are suppresed.
`value.data[].config_compliance_parameter.and_parameters[].parameter`	`String`	Contains parameter list based on which the events are being raised.
`value.data[].config_compliance_parameter.and_parameters[]`	`Array`	Documentation of parameter.
`value.data[].config_compliance_parameter.and_parameters[].value`	`String`	String value of the configuration compliance parameter.
`value.data[].traffic_selector`	`String`	String value of the traffic selector.
`value.data[].links[]`	`Array`	Set of actions for the fetched requirement.
`value.data[].links[].rel`	`String`	Name of the action that can be done over the requirement.
`value.data[].links[].href`	`String`	Address of the API through which action can be executed.
`value.data_summary.page_size`	`Number`	Integer value describing the number of items per page.
`value.data_summary.total_page_count`	`Number`	Integer value describing the number of pages.
`value.data_summary.current_page_number`	`Number`	Integer value of the current page number.
`value.data_summary.links`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.

Path	Type	Description
`value.data_summary.links[].href`	String	A link to the resource identified by the "rel" keyword.

Edit Requirement

A `PUT` request updates the requirement if a requirement with the specified ID is present.

Example Request

```
PUT /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements/e665caf5-280f45c6-d599-4010-b471-
bcd7e9e24ada HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 785

{
  "uuid" : "e665caf5-280f45c6-d599-4010-b471-bcd7e9e24ada",
  "name" : "updated-name",
  "description" :
"bFHperFescZicGTGrVhDXSpygOljwWTwhAvPIaOzCPVmGLDHcLebcosSOEuEFmAeFvXVDTMEXJDEKENfNQtmr
KthUFIyWKaksVeb",
  "config_compliance_parameter" : {
    "and_parameters" : [ {
      "parameter" : "CCP_ARP_FLOODING",
      "value" : "No",
      "operator" : "EQUAL_TO"
    }, {
      "parameter" : "CCP_BD_ENFORCEMENT",
      "value" : "Yes",
      "operator" : "EQUAL_TO"
    }, {
      "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
      "value" : "bd-flood",
      "operator" : "EQUAL_TO"
    } ]
  },
  "epg_selector_a" : "pgJLZXomhJ",
  "requirement_type" : "CONFIGURATION_COMPLIANCE",
  "is_all_traffic" : false,
  "enable_aggregate_event_for_tenant" : false,
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2064

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-280f45c6-d599-4010-b471-bcd7e9e24ada",
      "name" : "updated-name",
      "description" :
"bFHperFescZicGTGrVhDXSpygOljwWTwhAvPIaOzCPVmGLDHcLebcosSOEuEFmAeFvXVDTMEXJDEKENfNQtmr
KthUFIyWKaksVeb",
      "config_compliance_parameter" : {
        "and_parameters" : [ {
          "parameter" : "CCP_ARP_FLOODING",
          "value" : "No",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_ENFORCEMENT",
          "value" : "Yes",
          "operator" : "EQUAL_TO"
        }, {
          "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
          "value" : "bd-flood",
          "operator" : "EQUAL_TO"
        } ]
      },
      "epg_selector_a" : "pgJLZXomhJ",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "enable_aggregate_event_for_tenant" : false,
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-280f45c6-
d599-4010-b471-bcd7e9e24ada"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-280f45c6-
d599-4010-b471-bcd7e9e24ada"
      }, {
```

```
        "rel" : "getRequirements",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
  e3e5d6e426a1/model/aci-policy/compliance-
  requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
  e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-280f45c6-
  d599-4010-b471-bcd7e9e24ada"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 15. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the requirement.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier for the requirement.
value.data.name	String	Name of the requirement.
value.data.description	String	Description of the requirement.
value.data.epg_selector_a	String	Name of the EPG selector A.
value.data.epg_selector_b	String	Name of the EPG selector B.
value.data.traffic_selector	String	Name of the traffic selector.
value.data.requirement_type	String	Type of the requirement. Can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION, SLA.
value.data.communication_type	String	Type of communication, can be : MUST_NOT, MUST, MAY.
value.data.is_all_traffic	Boolean	Boolean value indicating whether the communication is all traffic.

Path	Type	Description
`value.data.enable_aggregate_event_for_tenant`	`Boolean`	Boolean value indicating whether INFO events are raised for every tenant or every EPG pair when the compliance requirement is satisfied.
`value.data.config_compliance_parameter.and_parameters[].parameter`	`String`	Type of the parameter based on which events will be raised.
`value.data.config_compliance_parameter.and_parameters[].value`	`String`	String value of the configuration compliance parameter.
`value.data.config_compliance_parameter.and_parameters[].operator`	`String`	Operator of the configuration compliance parameter - it can be obtained through fetching.
`value.data.config_compliance_parameter.and_parameters[]`	`Array`	List of parameters that will be verified.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Delete Requirement

A `DELETE` request deletes a requirement if a requirement with the specified ID is present.

Example Request

```
DELETE /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements/e665caf5-cdb99d8a-9e5d-4cfb-b114-
e6e8166c0841 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 469

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Requirement successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 16. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the requirement.

Response Fields

Path	Type	Description
value.data	String	Contains confirmation of the action.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Create a Requirement Set

A POST request creates a requirement set and returns an HTTP status code of 200 upon success.

Example Request

```
POST /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirement-sets HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 195


{
  "name" : "CoQGYlYzDg",
  "requirements" : [ "qcNYFEQDtq" ],
  "assurance_groups" : [ {
    "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
    "active" : true
  } ],
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1997

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-0afbbb6a-6ae4-4581-bdc3-545b6b9ff712",
      "name" : "CoQGYlYzDg",
      "requirements" : [ "qcNYFEQDtq" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
        "active" : true,
        "fabric_name" : "eiWWtnVwBx"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets"
      }, {
```

```
      "rel" : "getRequirementSet",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
0afbbb6a-6ae4-4581-bdc3-545b6b9ff712"
    }, {
      "rel" : "getRequirementSets",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-
sets?queryParams={queryParams}"
    }, {
      "rel" : "getRequirementSetAssociatedRequirements",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-
sets/{uuid}/associated-requirements"
    }, {
      "rel" : "editRequirementSet",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
0afbbb6a-6ae4-4581-bdc3-545b6b9ff712"
    }, {
      "rel" : "deleteRequirementSet",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
0afbbb6a-6ae4-4581-bdc3-545b6b9ff712"
    } ],
    "total_count" : 1,
    "has_more_data" : false
  }
 }
}
```

Request Fields

Path	Type	Description
name	String	Name of the requirement set.
requirements[]	Array	List of the requirements names that are part of the set.
assurance_groups[]	Array	List of assurance groups.
assurance_groups[].fabric_uuid	String	Identifier of the ACI fabric for which the requirement set is defined.
assurance_groups[].active	Boolean	Boolean value indicating the state of the requirement set for a given fabric.

Response Fields

Path	Type	Description
`value.data.name`	`String`	Name of the requirement set.
`value.data.requirements[]`	`Array`	List of the requirements names that are part of the set.
`value.data.assurance_groups[]`	`Array`	List of assurance groups.
`value.data.assurance_groups[].` `fabric_uuid`	`String`	Identifier of the ACI fabric for which the requirement set is defined.
`value.data.assurance_groups[].` `active`	`Boolean`	Boolean value indicating the state of the requirement set for a given fabric.
`value.data.uuid`	`String`	Unique identified of the requirement set.
`value.data.assurance_groups[].` `fabric_name`	`String`	Name of the ACI fabric.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].hre` `f`	`String`	A link to the resource identified by the "rel" keyword.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace
`value.data_summary.total_count`	`Number`	Number of items
`value.data_summary.has_more_da` `ta`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Get Requirement Set

A `GET` request returns a record of the requirement set if a requirement set with the specified ID is present.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirement-sets/e665caf5-36ca32fc-ed24-4e95-860b-
531bdd64cf4e HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 806

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-36ca32fc-ed24-4e95-860b-531bdd64cf4e",
      "name" : "csfzQsowAo",
      "requirements" : [ "qeQmsYQrcD" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
        "active" : true,
        "fabric_name" : "eiWWtnVwBx"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
36ca32fc-ed24-4e95-860b-531bdd64cf4e"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 17. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirement-sets/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identified of the requirement set.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier of the requirement set.

Path	Type	Description
`value.data.name`	`String`	Name of the requirement set.
`value.data.requirements[]`	`Array`	List of the requirements names that are part of the set.
`value.data.assurance_groups[]`	`Array`	List of assurance groups.
`value.data.assurance_groups[].fabric_uuid`	`String`	Identifier of the ACI fabric for which the requirement set is defined.
`value.data.assurance_groups[].active`	`Boolean`	Boolean value indicating the state of the requirement set for a given fabric.
`value.data.assurance_groups[].fabric_name`	`String`	Name of the ACI fabric.
`value.data.links[]`	`Array`	API operations for the requirement set entities.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Get Requirement Sets

A `GET` request returns the records of all requirement sets.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirement-sets HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2142

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "e665caf5-795668db-90b2-4507-a88a-d87d01f9f775",
      "name" : "oCSdXXUwKS",
      "requirements" : [ "lMedjfHVbu" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
        "active" : true,
        "fabric_name" : "eiWWtnVwBx"
      } ],
      "status" : "active",
      "associated" : "yes",
      "links" : [ {
        "rel" : "getRequirementSet",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
795668db-90b2-4507-a88a-d87d01f9f775"
      }, {
        "rel" : "getRequirementSets",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-
sets?queryParams={queryParams}"
      }, {
        "rel" : "getRequirementSetAssociatedRequirements",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-
sets/{uuid}/associated-requirements"
      }, {
        "rel" : "editRequirementSet",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
795668db-90b2-4507-a88a-d87d01f9f775"
      }, {
        "rel" : "deleteRequirementSet",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
795668db-90b2-4507-a88a-d87d01f9f775"
      } ]
    } ],
    "data_summary" : {
```

```
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
  e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets"
    } ],
    "total_count" : 1,
    "has_more_data" : false,
    "page_size" : 50,
    "current_page_number" : 0,
    "total_page_count" : 1
  }
 }
}
```

Response Fields

Path	Type	Description
value.data[].name	String	Name of the requirement set.
value.data[].requirements[]	Array	List of the requirements names that are part of the set.
value.data[].assurance_groups[]	Array	List of assurance groups.
value.data[].assurance_groups[].fabric_uuid	String	Identifier of the ACI fabric for which the requirement set is defined.
value.data[].assurance_groups[].active	Boolean	Boolean value indicating the state of the requirement set for a given fabric.
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.
value.data[].uuid	String	Unique identifier of the requirement set.
value.data[].assurance_groups[].fabric_name	String	Used namespace.
value.data[].status	String	String value stating whether the requirement set is active.
value.data[].associated	String	String value stating whether the requirement set is associated to the current fabric.
value.data[].links[]	Array	Set of URL designed to call APIs that are related to the entity.
value.data[].links[].rel	String	Name of the action.

Path	Type	Description
`value.data[].links[].href`	`String`	API to execute the action.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.page_size`	`Number`	Integer value that states the page size.
`value.data_summary.current_page_number`	`Number`	Integer value that states the current page number.
`value.data_summary.total_page_count`	`Number`	Integer value that states the number of pages.

Edit Requirement Set

A PUT request updates the requirement set if a requirement set with the specified ID is present.

Example Request

```
PUT /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirement-sets/e665caf5-19395dfa-cc18-4155-928a-
db75716146be HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 274

{
  "uuid" : "e665caf5-19395dfa-cc18-4155-928a-db75716146be",
  "name" : "updated-name",
  "requirements" : [ "KYvpeykvQE" ],
  "assurance_groups" : [ {
    "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
    "active" : true,
    "fabric_name" : "eiWWtnVwBx"
  } ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1518

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-19395dfa-cc18-4155-928a-db75716146be",
      "name" : "updated-name",
      "requirements" : [ "KYvpeykvQE" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "418ea34c-0497-49bf-ab06-e3e5d6e426a1",
        "active" : true,
        "fabric_name" : "eiWWtnVwBx"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets/e665caf5-
19395dfa-cc18-4155-928a-db75716146be"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-19395dfa-
cc18-4155-928a-db75716146be"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/e665caf5-19395dfa-
cc18-4155-928a-db75716146be"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 18. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirement-sets/{uuid}

Parameter	Description
`id`	Unique identifier of the ACI fabric
`uuid`	Unique identifier of the requirement set.

Response Fields

Path	Type	Description
`value.data.uuid`	`String`	Unique identifier of the requirement set.
`value.data.name`	`String`	Name of the requirement set.
`value.data.requirements[]`	`Array`	List of the requirements names that are part of the set.
`value.data.assurance_groups[]`	`Array`	List of assurance groups.
`value.data.assurance_groups[].fabric_uuid`	`String`	Identifier of the ACI fabric for which the requirement set is defined.
`value.data.assurance_groups[].active`	`Boolean`	Boolean value indicating the state of the requirement set for a given fabric.
`value.data.assurance_groups[].fabric_name`	`String`	Name of the ACI fabric.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Delete Requirement Set

A `DELETE` request deletes a requirement set if a requirement set with the specified ID is present.

Example Request

```
DELETE /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirement-sets/e665caf5-9af66b69-10de-47a9-a0b6-
c9d001efabe4 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 480

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Requirement Set successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirementSet",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirement-sets"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 19. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirement-sets/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier for the requirement set.

Response Fields

Path	Type	Description
value.data	String	Information message stating whether the action was succesful.
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Create a Traffic Selector

A POST request creates a traffic selector and returns an HTTP status code of 200 upon success.

Example Request

```
POST /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/traffic-selectors HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 4168

{
  "name" : "gghRMgiCAj",
  "description" : "OSDL",
  "includes" : {
    "selectors" : [ {
      "selectors" : [ {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"101832586560686363398811327260023028695647049468484405651358077129185648802338384669
1755327069197838",
          "dst_port" :
"674928261738791857540226329909543520006576515854898432435243514066505305902445082601
9172637664190570",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"374610210110876214018078822215417900644980454907077495276562691962688151115941513765
1
```

```
842377805942707",
          "dst_port" :
"82507292436944543020746642546487954027863821655637552030172030407822142051012754574
29239496394223493",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
        }
      }, {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"10183258656068636339881132726002302869564704946848440565135807712918564880233838466
91755327069197838",
          "dst_port" :
"67492826173879185754022632990954352000657651585489843243524351406650530590244508260
19172637664190570",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"37461021011087621401807882221541790064498045490707749527656269196268815115594151376
51842377805942707",
          "dst_port" :
"82507292436944543020746642546487954027863821655637552030172030407822142051012754574
29239496394223493",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
        }
      }, {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"95515943545518119016153086089248649179093664284665260488216047147170605927621523255
85652952316941627",
          "dst_port" :
"21567333775784679451638259593306817961640631975501601246064548119686126178190710348
53420267300194508",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
```

```
            "tcp_flags_not_set" : [ "FINISH" ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"96002961332253226640287728692654348783312797014702999467198635757139898667110987782 52
908387806765288",
            "dst_port" :
"25482873074573182395107977235339048282473487127580910593317833339342566326721257471 34
742456274527156",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
            "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
          }
        }, {
          "ether_type" : "IP",
          "ip_protocol" : "TCP",
          "reverse_port" : false,
          "port_selector_ato_b" : {
            "src_port" :
"95515943545518119016153086089248649179093664284665260488216047147170605927621523255 85
652952316941627",
            "dst_port" :
"21567333775784679451638259593306817961640631975501601246064548119686126178190710348 53
420267300194508",
            "log_flag" : true,
            "tcp_flag" : false,
            "tcp_flags_set" : [ "FINISH" ],
            "tcp_flags_not_set" : [ "FINISH" ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"96002961332253226640287728692654348783312797014702999467198635757139898667110987782 52
908387806765288",
            "dst_port" :
"25482873074573182395107977235339048282473487127580910593317833339342566326721257471 34
742456274527156",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
            "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
          }
        } ]
      } ]
    }
  }
}
```

Example Response

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json;charset=UTF-8
Content-Length: 5795

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-df3fa34a-528b-4e4e-bcdd-c78cb8068602",
      "name" : "gghRMgiCAj",
      "description" : "OSDL",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"10183258656068636339881132726002302869564704946848440565135807712918564880233838466917
55327069197838",
              "dst_port" :
"67492826173879185754022632990954352000657651585489843243524351406650530590244508260191
72637664190570",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"37461021011087621401807882221541790064498045490707749527656269196268815115594151376518
42377805942707",
              "dst_port" :
"82507292436944543020746642546487954027863821655637552030172030407822142051012754574292
39496394223493",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"10183258656068636339881132726002302869564704946848440565135807712918564880233838466917
55327069197838",
```

```
              "dst_port" :
"674928261738791857540226329909543520006576515854898432435243514066505305902445082601
9172637664190570",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"374610210110876214018078822215417900644980454907077495276562691962688151155941513765
1842377805942707",
              "dst_port" :
"825072924369445430207466425464879540278638216556375520301720304078221420510127545742
9239496394223493",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"955159435455181190161530860892486491790936642846652604882160471471706059276215232558
5652952316941627",
              "dst_port" :
"215673337757846794516382595933068179616406319755016012460645481196861261781907103485
3420267300194508",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"960029613322532266402877286926543487833127970147029994671986357571398986671109877825
2908387806765288",
              "dst_port" :
"254828730745731823951079772353390482824734871275809105933178333934256632672125747134
742456274527156",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
```

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```
             "reverse_port" : false,
             "port_selector_ato_b" : {
               "src_port" :
"955159435455181190161530860892486491790936642846652604882160471471706059276215232558
5652952316941627",
               "dst_port" :
"215673337757846794516382595933068179616406319755016012460645481196861261781907103485
3420267300194508",
               "log_flag" : true,
               "tcp_flag" : false,
               "tcp_flags_set" : [ ],
               "tcp_flags_not_set" : [ ]
             },
             "port_selector_bto_a" : {
               "src_port" :
"960029613322532266402877286926543487833127970147029994671986357571398986671109877825
2908387806765288",
               "dst_port" :
"254828730745731823951079772353390482824734871275809105933178333393425663267212574713
4742456274527156",
               "log_flag" : false,
               "tcp_flag" : false,
               "tcp_flags_set" : [ ],
               "tcp_flags_not_set" : [ ]
             }
           } ]
         } ]
       }
     },
     "data_summary" : {
       "links" : [ {
         "rel" : "self",
         "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors"
       }, {
         "rel" : "getTrafficSelector",
         "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
df3fa34a-528b-4e4e-bcdd-c78cb8068602"
       }, {
         "rel" : "getTrafficSelectors",
         "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-
selectors?queryParams={queryParams}"
       }, {
         "rel" : "editTrafficSelector",
         "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
df3fa34a-528b-4e4e-bcdd-c78cb8068602"
       }, {
         "rel" : "deleteTrafficSelector",
```

```
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
    e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
    df3fa34a-528b-4e4e-bcdd-c78cb8068602"
        } ],
        "total_count" : 1,
        "has_more_data" : false
    }
  }
}
```

Request Fields

Path	Type	Description
name	String	Name of the traffic selector.
description	String	Description of the traffic selector.
includes.selectors[].selectors[].ether_type	String	Defines the EtherType, indicating the protocol encapsulated in the frame. Can be a value contained by the list : [IP, MPLS_UNICAST, TRILL, ARP, FCOE, MAC_SECURITY]
includes.selectors[].selectors[].ip_protocol	String	Defines the IP protocol type. Can be a value contained by the list : [EIGRP, EGP, ICMP, ICMPV6, IGMP, IGP, L2TP, OSPFIGP, PIM, TCP, UDP, ALL
includes.selectors[].selectors[].reverse_port	Boolean	Boolean value indicating whether the ports are reversed.
includes.selectors[].selectors[].port_selector_ato_b.src_port	String	String value with the source port.
includes.selectors[].selectors[].port_selector_ato_b.dst_port	String	String value with the destination port.
includes.selectors[].selectors[].port_selector_ato_b.log_flag	Boolean	Boolean value for logging.
includes.selectors[].selectors[].port_selector_ato_b.tcp_flag	Boolean	Boolean flag to enable the TCP flag set.
includes.selectors[].selectors[].port_selector_ato_b.tcp_flags_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

Path	Type	Description
`includes.selectors[].selectors[].port_selector_ato_b.tcp_flags_not_set[]`	`Array`	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
`includes.selectors[].selectors[].port_selector_bto_a.src_port`	`String`	String value with the source port.
`includes.selectors[].selectors[].port_selector_bto_a.dst_port`	`String`	String value with the destination port.
`includes.selectors[].selectors[].port_selector_bto_a.log_flag`	`Boolean`	Boolean value for logging.
`includes.selectors[].selectors[].port_selector_bto_a.tcp_flag`	`Boolean`	Boolean flag to enable the TCP flag set.
`includes.selectors[].selectors[].port_selector_bto_a.tcp_flags_set[]`	`Array`	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
`includes.selectors[].selectors[].port_selector_bto_a.tcp_flags_not_set[]`	`Array`	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

Response Fields

Path	Type	Description
`value.data.uuid`	`String`	Unique identifier for the traffic selector.
`value.data.name`	`String`	Name of the traffic selector.
`value.data.description`	`String`	Description of the traffic selector.
`value.data.includes.selectors[].selectors[].ether_type`	`String`	Defines the EtherType, indicating the protocol encapsulated in the frame. Can be a value contained by the list : [IP, MPLS_UNICAST, TRILL, ARP, FCOE, MAC_SECURITY]

Path	Type	Description
`value.data.includes.selectors[].selectors[].ip_protocol`	String	Defines the IP protocol type. Can be a value contained by the list : [EIGRP, EGP, ICMP, ICMPV6, IGMP, IGP, L2TP, OSPFIGP, PIM, TCP, UDP, ALL]
`value.data.includes.selectors[].selectors[].reverse_port`	Boolean	Boolean value indicating whether the ports are reversed.
`value.data.includes.selectors[].selectors[].port_selector_at o_b.src_port`	String	String value with the source port.
`value.data.includes.selectors[].selectors[].port_selector_at o_b.dst_port`	String	String value with the destination port.
`value.data.includes.selectors[].selectors[].port_selector_at o_b.log_flag`	Boolean	Boolean value for logging.
`value.data.includes.selectors[].selectors[].port_selector_at o_b.tcp_flag`	Boolean	Boolean flag to enable the TCP flag set.
`value.data.includes.selectors[].selectors[].port_selector_at o_b.tcp_flags_set[]`	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
`value.data.includes.selectors[].selectors[].port_selector_at o_b.tcp_flags_not_set[]`	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
`value.data.includes.selectors[].selectors[].port_selector_bt o_a.src_port`	String	String value with the source port.
`value.data.includes.selectors[].selectors[].port_selector_bt o_a.dst_port`	String	String value with the destination port.
`value.data.includes.selectors[].selectors[].port_selector_bt o_a.log_flag`	Boolean	Boolean value for logging.
`value.data.includes.selectors[].selectors[].port_selector_bt o_a.tcp_flag`	Boolean	Boolean flag to enable the TCP flag set.
`value.data.includes.selectors[].selectors[].port_selector_bt o_a.tcp_flags_set[]`	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

Path	Type	Description
`value.data.includes.selectors[].selectors[].port_selector_bto_a.tcp_flags_not_set[]`	`Array`	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Get Traffic Selector

A `GET` request returns a record of the traffic selector if a traffic selector with the specified ID is present.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/traffic-selectors/e665caf5-6ae01f9e-52a9-4d68-8a60-
e62dc6e5c7b1 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 5790

{
  "success" : true,
  "value" : {
```

```
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-6ae01f9e-52a9-4d68-8a60-e62dc6e5c7b1",
      "name" : "lcpLDbXGpt",
      "description" : "lcXA",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"99277698176942771319862105831675508086330663427674050655169136706359012066747621890189
07979727424177",
              "dst_port" :
"44944396502015715243336441969515035751254193947993961998453142718620426000868408021323
163431460045574",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "RESET" ],
              "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"99265202949655727701379814811865291074139810567112152022165399766802877127711164094062
572527326084826",
              "dst_port" :
"96502324484978377549979602790634591522158200501625383489877686958296711506030434636240
23262988045257",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
              "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"99277698176942771319862105831675508086330663427674050655169136706359012066747621890189
07979727424177",
              "dst_port" :
"44944396502015715243336441969515035751254193947993961998453142718620426000868408021323
163431460045574",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "RESET" ],
```

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```
              "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"99265202949655727701379814811865291074139810567112152022165399766802877127711640940 62
572527326084826",
              "dst_port" :
"96502324484978377549979602790634591522158200501625383489877686958296711506030434636 24
023262988045257",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
              "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"02372279170979030798719631772364620411466551040083298486725941624460934284807874057 39
178388825183363",
              "dst_port" :
"21899669985308805044913581326023986835139126212808358862675879216261206371855959447 20
620809805914479",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
              "tcp_flags_not_set" : [ "FINISH" ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"65277518466111808757258831872047244034145150035970514291421750823273670949244769391 97
764170332208104",
              "dst_port" :
"18958245235566554863520261807623259787905808971912441682525704735034695281289846922 59
773192691544145",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "RESET" ],
              "tcp_flags_not_set" : [ "FINISH" ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"02372279170979030798719631772364620411466551040083298486725941624460934284807874057 39
178388825183363",
              "dst_port" :
```

"2189966998530880504491358132602398683513912621280835886267587921626120637185595944720
620809805914479",
                "log_flag" : true,
                "tcp_flag" : false,
                "tcp_flags_set" : ["ACKNOWLEDGEMENT"],
                "tcp_flags_not_set" : ["FINISH"]
              },
              "port_selector_bto_a" : {
                "src_port" :
"6527751846611180875725883187204724403414515003597051429142175082327367094924476939197
764170332208104",
                "dst_port" :
"1895824523556655486352026180762325978790580897191244168252570473503469528128984692259
773192691544145",
                "log_flag" : false,
                "tcp_flag" : false,
                "tcp_flags_set" : ["RESET"],
                "tcp_flags_not_set" : ["FINISH"]
              }
            }]
          }]
        }
      },
      "data_summary" : {
        "links" : [{
          "rel" : "self",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
6ae01f9e-52a9-4d68-8a60-e62dc6e5c7b1"
        }, {
          "rel" : "editTrafficSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
6ae01f9e-52a9-4d68-8a60-e62dc6e5c7b1"
        }, {
          "rel" : "deleteTrafficSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
6ae01f9e-52a9-4d68-8a60-e62dc6e5c7b1"
        }, {
          "rel" : "getTrafficSelectors",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-
selectors?queryParams={queryParams}"
        }],
        "total_count" : 1,
        "has_more_data" : false
      }
    }
}

Path Parameters

Table 20. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/traffic-selectors/{uuid}

Parameter	Description
`id`	Unique identifier of the ACI fabric
`uuid`	Unique identifier of the traffic selector.

Response Fields

Path	Type	Description
`value.data.uuid`	`String`	Unique identifier for the traffic selector.
`value.data.name`	`String`	Name of the traffic selector.
`value.data.description`	`String`	Description of the traffic selector.
`value.data.includes.selectors[].selectors[].ether_type`	`String`	Defines the EtherType, indicating the protocol encapsulated in the frame. Can be a value contained by the list : [IP, MPLS_UNICAST, TRILL, ARP, FCOE, MAC_SECURITY]
`value.data.includes.selectors[].selectors[].ip_protocol`	`String`	Defines the IP protocol type. Can be a value contained by the list : [EIGRP, EGP, ICMP, ICMPV6, IGMP, IGP, L2TP, OSPFIGP, PIM, TCP, UDP, ALL
`value.data.includes.selectors[].selectors[].reverse_port`	`Boolean`	Boolean value indicating whether the ports are reversed.
`value.data.includes.selectors[].selectors[].port_selector_ato_b.src_port`	`String`	String value with the source port.
`value.data.includes.selectors[].selectors[].port_selector_ato_b.dst_port`	`String`	String value with the destination port.
`value.data.includes.selectors[].selectors[].port_selector_ato_b.log_flag`	`Boolean`	Boolean value for logging.
`value.data.includes.selectors[].selectors[].port_selector_ato_b.tcp_flag`	`Boolean`	Boolean flag to enable the TCP flag set.
`value.data.includes.selectors[].selectors[].port_selector_ato_b.tcp_flags_set[]`	`Array`	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

Path	Type	Description
value.data.includes.selectors[ ].selectors[].port_selector_at o_b.tcp_flags_not_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.src_port	String	String value with the source port.
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.dst_port	String	String value with the destination port.
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.log_flag	Boolean	Boolean value for logging.
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.tcp_flag	Boolean	Boolean flag to enable the TCP flag set.
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.tcp_flags_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data.includes.selectors[ ].selectors[].port_selector_bt o_a.tcp_flags_not_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].hre f	String	A link to the resource identified by the "rel" keyword.
success	Boolean	Boolean value indicating whether the action completed successfully.
value.namespaces.default	String	Used namespace.
value.data_summary.total_count	Number	Number of items.
value.data_summary.has_more_da ta	Boolean	Boolean value indicating whether more data is available to be displayed.

Get Traffic Selectors

A GET request returns the records of all traffic selectors.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/traffic-
selectors?$filter=name:vXHyNuQRyw&$page=0&$size=100 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 734

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "e665caf5-063c2364-fb6f-4fa9-80b1-54dbb4db520c",
      "name" : "vXHyNuQRyw",
      "description" : "TdGg",
      "associated_requirements" : [ ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-
selectors?$filter=name:vXHyNuQRyw&$page=0&$size=100"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 100,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Response Fields

Path	Type	Description
`value.data[].uuid`	`String`	Unique id of the traffic selector.
`value.data[].name`	`String`	Name of the traffic selector.
`value.data[].description`	`String`	Description of the requirement selector.
`value.data[].associated_requirements[]`	`Array`	List of strings containing name of the associated requirements.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.
`value.data_summary.page_size`	`Number`	Integer value that states the page size.
`value.data_summary.current_page_number`	`Number`	Integer value that states the current page number.
`value.data_summary.total_page_count`	`Number`	Integer value that states the number of pages.

Edit Traffic Selector

A `PUT` request updates the traffic selectors if a traffic selector with the specified ID is present.

Example Request

```
PUT /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/traffic-selectors/e665caf5-f392eee3-9172-4354-b3f7-
9ebc8d0296b6 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 4200
```

```
{
  "uuid" : "e665caf5-f392eee3-9172-4354-b3f7-9ebc8d0296b6",
  "name" : "McpvqAgtGV",
  "description" : "UfWh",
  "includes" : {
    "selectors" : [ {
      "selectors" : [ {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"1365273366365987667260107612686666477402983823195330972105062378286996730878520079703
763585220146198",
          "dst_port" :
"1929393671110128922663602031071459889231367297809114064963326209887391963851207894569
774913493839045",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"3813025557889549233731496181961248163453038548004659806531024199641240669816931167234
402651635739343",
          "dst_port" :
"3304583287761557924845168525420017237180098298200105340071298131688931021848742760599
872503188811048",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "RESET" ],
          "tcp_flags_not_set" : [ "RESET" ]
        }
      }, {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"1365273366365987667260107612686666477402983823195330972105062378286996730878520079703
763585220146198",
          "dst_port" :
"1929393671110128922663602031071459889231367297809114064963326209887391963851207894569
774913493839045",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "port_selector_bto_a" : {
```

          "src_port" :
"38130255578895492337314961819612481634530385480046598065310241996412406698169311672344
02651635739343",
          "dst_port" :
"33045832877615579248451685254200172371800982982001053400712981316889310218487427605998
72503188811048",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : ["RESET"],
          "tcp_flags_not_set" : ["RESET"]
        }
      }, {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"72660434057736692548043947865209955627095061790852418809277489316571892871053478753674
12074697060364",
          "dst_port" :
"37306474445345369797813233778497851985733910321314287222873067969785796221715358063664
86260539795205",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : ["SYNCHRONIZED"],
          "tcp_flags_not_set" : ["FINISH"]
        },
        "port_selector_bto_a" : {
          "src_port" :
"35710559179747727196304862252962694353384356590048701507157258221415982025524029614463
22309473319817",
          "dst_port" :
"30083620310852334652267610409421323264844592001499971428866953272629131219578262022739
61148503602968",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : ["FINISH"],
          "tcp_flags_not_set" : ["SYNCHRONIZED"]
        }
      }, {
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false,
        "port_selector_ato_b" : {
          "src_port" :
"72660434057736692548043947865209955627095061790852418809277489316571892871053478753674
12074697060364",
          "dst_port" :
"37306474445345369797813233778497851985733910321314287222873067969785796221715358063664
86260539795205",
          "log_flag" : false,

```
            "tcp_flag" : false,
            "tcp_flags_set" : [ "SYNCHRONIZED" ],
            "tcp_flags_not_set" : [ "FINISH" ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"35710559179747727196304862252962694353384356590048701507157258221415982025524029614 46
322309473319817",
            "dst_port" :
"30083620310852334652267610409421323264844592001499971428866953272629131219578262022 73
961148503602968",
            "log_flag" : true,
            "tcp_flag" : false,
            "tcp_flags_set" : [ "FINISH" ],
            "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
          }
        } ]
      } ]
    }
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 4852

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-f392eee3-9172-4354-b3f7-9ebc8d0296b6",
      "name" : "McpvqAgtGV",
      "description" : "UfWh",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"13652733663659876672601076126866664774029838231953309721050623782869967308785200797 03
763585220146198",
              "dst_port" :
"19293936711101289226636020310714598892313672978091140649633262098873919638512078945 69
774913493839045",
```

```
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"3813025557889549233731496181961248163453038548004659806531024199641240669816931167234
402651635739343",
            "dst_port" :
"3304583287761557924845168525420017237180098298200105340071298131688931021848742760599
872503188811048",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          }
        }, {
          "ether_type" : "IP",
          "ip_protocol" : "TCP",
          "reverse_port" : false,
          "port_selector_ato_b" : {
            "src_port" :
"1365273366365987667260107612686666477402983823195330972105062378286996730878520079703
763585220146198",
            "dst_port" :
"1929393671110128922663602031071459889231367297809114064963326209887391963851207894569
774913493839045",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"3813025557889549233731496181961248163453038548004659806531024199641240669816931167234
402651635739343",
            "dst_port" :
"3304583287761557924845168525420017237180098298200105340071298131688931021848742760599
872503188811048",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          }
        }, {
          "ether_type" : "IP",
          "ip_protocol" : "TCP",
          "reverse_port" : false,
          "port_selector_ato_b" : {
            "src_port" :
```

```
"7266043405773669254804394786520995562709506179085241880927748931657189287105347875367
412074697060364",
              "dst_port" :
"3730647444534536979781323377849785198573391032131428722287306796978579622171535806366
486260539795205",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"3571055917974772719630486225296269435338435659004870150715725822141598202552402961446
322309473319817",
              "dst_port" :
"3008362031085233465226761040942132326484459200149997142886695327262913121957826202273
961148503602968",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            }
          }, {
            "ether_type" : "IP",
            "ip_protocol" : "TCP",
            "reverse_port" : false,
            "port_selector_ato_b" : {
              "src_port" :
"7266043405773669254804394786520995562709506179085241880927748931657189287105347875367
412074697060364",
              "dst_port" :
"3730647444534536979781323377849785198573391032131428722287306796978579622171535806366
486260539795205",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"3571055917974772719630486225296269435338435659004870150715725822141598202552402961446
322309473319817",
              "dst_port" :
"3008362031085233465226761040942132326484459200149997142886695327262913121957826202273
961148503602968",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            }
          } ]
```

```
        } ]
      }
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
  e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors/e665caf5-
  f392eee3-9172-4354-b3f7-9ebc8d0296b6"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 21. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/traffic-selectors/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the traffic selector.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier for the traffic selector.
value.data.name	String	Name of the traffic selector.
value.data.description	String	Description of the traffic selector.
value.data.includes.selectors[].selectors[].ether_type	String	Defines the EtherType, indicating the protocol encapsulated in the frame. Can be a value contained by the list : [IP, MPLS_UNICAST, TRILL, ARP, FCOE, MAC_SECURITY]
value.data.includes.selectors[].selectors[].ip_protocol	String	Defines the IP protocol type. Can be a value contained by the list : [EIGRP, EGP, ICMP, ICMPV6, IGMP, IGP, L2TP, OSPFIGP, PIM, TCP, UDP, ALL
value.data.includes.selectors[].selectors[].reverse_port	Boolean	Boolean value indicating whether the ports are reversed.
value.data.includes.selectors[].selectors[].port_selector_ato_b.src_port	String	String value with the source port.

Path	Type	Description
value.data.includes.selectors[].selectors[].port_selector_ato_b.dst_port	String	String value with the destination port.
value.data.includes.selectors[].selectors[].port_selector_ato_b.log_flag	Boolean	Boolean value for logging.
value.data.includes.selectors[].selectors[].port_selector_ato_b.tcp_flag	Boolean	Boolean flag to enable the TCP flag set.
value.data.includes.selectors[].selectors[].port_selector_ato_b.tcp_flags_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data.includes.selectors[].selectors[].port_selector_ato_b.tcp_flags_not_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data.includes.selectors[].selectors[].port_selector_bto_a.src_port	String	String value with the source port.
value.data.includes.selectors[].selectors[].port_selector_bto_a.dst_port	String	String value with the destination port.
value.data.includes.selectors[].selectors[].port_selector_bto_a.log_flag	Boolean	Boolean value for logging.
value.data.includes.selectors[].selectors[].port_selector_bto_a.tcp_flag	Boolean	Boolean flag to enable the TCP flag set.
value.data.includes.selectors[].selectors[].port_selector_bto_a.tcp_flags_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data.includes.selectors[].selectors[].port_selector_bto_a.tcp_flags_not_set[]	Array	List of string flags to control state of connection. Can be part of the next list [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.

Path	Type	Description
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Delete Traffic Selector

A `DELETE` request deletes a traffic selector if a traffic selector with the specified ID is present.

Example Request

```
DELETE /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/traffic-selectors/e665caf5-200539af-81eb-42b2-8a88-
ba599eb9b4ce HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 482

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete TrafficSelector Successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveTrafficSelector",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/traffic-selectors"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 22. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/traffic-selectors/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the traffic selector.

Response Fields

Path	Type	Description
value.data	String	Information message stating whether the action was successful.
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.
success	Boolean	Boolean value indicating whether the action completed successfully.
value.namespaces.default	String	Used namespace.

Path	Type	Description
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Create an Object Selector

A `POST` request creates an object selector and returns an HTTP status code of `200` upon success.

Example Request

```
POST /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/object-selectors HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 33108

{
  "name" : "zXXxDbmroI",
  "description" :
"dMjpRocUdGzDHsDISnyiLPLudggtwxcLPZIMnoNvuEdbVryTslhNPkHVxPkEANWHITAtLKljPXiTldOxSdrPq
VBQmCGPxhdrQfMd",
  "includes" : [ {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "TYTbrKvUHn",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "qVfuQXfCbs",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "YQCwWcvWeJ",
          "type" : "EXACT"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
```

```
        "tenant" : {
          "pattern" : "TyYpmnXRDY",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "TWZPTlwfPN",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "RiyHalXsKy",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "KOjEPfqBaO",
          "type" : "ENDS_WITH"
        },
        "application_epg" : {
          "pattern" : "HvonPCDUSN",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "mjPzZnoEdB",
          "type" : "NOT_BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "ghshRaRPbo",
          "type" : "EXACT"
        },
        "application_epg" : {
          "pattern" : "gdWJOlsimK",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "VbDjsmjaco",
          "type" : "CONTAINS"
        },
        "vrf" : {
          "pattern" : "SjRCZeVwvA",
          "type" : "ENDS_WITH"
```

```
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "kiUEAEfTdB",
          "type" : "NOT_BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "BykKAMfIos",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "qeesXMCzYd",
          "type" : "EXACT"
        },
        "bd" : {
          "pattern" : "XumHRWADzr",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l2_ext_out_match" : {
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            "type" : "ENDS_WITH"
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            "type" : "ENDS_WITH"
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          "l3_ext_instp" : {
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      "tenant" : {
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        "pattern" : "uNJntibIny",
        "type" : "NOT_BEGINS_WITH"
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      "l3_ext_instp" : {
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    }
  } ]
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      "tenant" : {
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      }
    }
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          "type" : "NOT_CONTAINS"
        }
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          "type" : "BEGINS_WITH"
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        }
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          "type" : "ENDS_WITH"
        },
        "bd" : {
          "pattern" : "nfPmgoVQvW",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
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          "type" : "BEGINS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "mRWUPoVddO",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "BEGINS_WITH"
        },
        "l3_ext_out" : {
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          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_instp_match" : {
```

```
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            "type" : "NOT_BEGINS_WITH"
          },
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            "type" : "ENDS_WITH"
          },
          "l2_ext_instp" : {
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            "type" : "NOT_BEGINS_WITH"
          }
        }
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            "type" : "NOT_BEGINS_WITH"
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          "l2_ext_out" : {
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            "type" : "NOT_CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "GsNsqkpZgZ",
            "type" : "NOT_CONTAINS"
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        }
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            "type" : "NOT_BEGINS_WITH"
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          "l3_ext_out" : {
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            "type" : "NOT_BEGINS_WITH"
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          "l3_ext_instp" : {
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          }
        }
      } ]
    }, {
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```

```
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "tenant" : {
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          "type" : "EXACT"
        }
      }
    }, {
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          "type" : "CONTAINS"
        },
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          "type" : "NOT_CONTAINS"
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      }
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        },
        "application_profile" : {
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          "type" : "BEGINS_WITH"
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```
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      "vrf" : {
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        "type" : "CONTAINS"
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        "type" : "ENDS_WITH"
      }
    }
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        "type" : "EXACT"
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      "bd" : {
        "pattern" : "rxaIgYWABW",
        "type" : "CONTAINS"
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      },
      "l2_ext_out" : {
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```

```json
          "type" : "EXACT"
        }
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    }, {
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          "type" : "ENDS_WITH"
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          "type" : "EXACT"
        }
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    }, {
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        "tenant" : {
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          "type" : "CONTAINS"
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      }
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          "type" : "EXACT"
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          "type" : "BEGINS_WITH"
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        "l2_ext_out" : {
```

```
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          "l2_ext_instp" : {
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            "type" : "BEGINS_WITH"
          }
        }
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          },
          "l3_ext_out" : {
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            "type" : "ENDS_WITH"
          },
          "l3_ext_instp" : {
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      } ]
    }, {
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      }, {
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```

```
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            "type" : "ENDS_WITH"
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            "type" : "EXACT"
          }
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            "pattern" : "sSJGypJVnb",
            "type" : "NOT_CONTAINS"
          },
          "application_epg" : {
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            "type" : "ENDS_WITH"
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        }
      }, {
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            "type" : "EXACT"
          }
        }
```

```
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        "vrf" : {
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "BEGINS_WITH"
        },
        "bd" : {
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          "type" : "NOT_CONTAINS"
        }
      }
    }, {
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          "type" : "CONTAINS"
        },
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          "pattern" : "mbhkIjLoTL",
          "type" : "BEGINS_WITH"
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    }, {
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          "type" : "ENDS_WITH"
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      }
    }, {
      "l3_ext_out_match" : {
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```

```
      "tenant" : {
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        "type" : "EXACT"
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        "type" : "ENDS_WITH"
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    }
  }, {
    "l3_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
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        "type" : "NOT_BEGINS_WITH"
      },
      "l3_ext_out" : {
        "pattern" : "vFKEZmxfwy",
        "type" : "CONTAINS"
      }
    }
  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "SborGdFRtw",
        "type" : "BEGINS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "WeaPGDkvnc",
        "type" : "ENDS_WITH"
      },
      "l2_ext_instp" : {
        "pattern" : "ZNMmeVUxYG",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
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      "object_attribute" : "DN",
      "tenant" : {
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        "type" : "NOT_BEGINS_WITH"
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      "l2_ext_out" : {
        "pattern" : "iuYfvftgKJ",
        "type" : "EXACT"
      },
      "l2_ext_instp" : {
        "pattern" : "AZTsOCIZJO",
        "type" : "CONTAINS"
```

```
            }
          }
        }, {
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              "type" : "NOT_BEGINS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "TAQttexeNv",
              "type" : "CONTAINS"
            },
            "l3_ext_instp" : {
              "pattern" : "eJKhumkxzx",
              "type" : "NOT_BEGINS_WITH"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "yoPUZBcBCn",
              "type" : "EXACT"
            },
            "l3_ext_out" : {
              "pattern" : "CEEahydcDk",
              "type" : "CONTAINS"
            },
            "l3_ext_instp" : {
              "pattern" : "zwMdVobrGX",
              "type" : "NOT_BEGINS_WITH"
            }
          }
        } ]
      } ],
    "selector_type" : "OST_VRF"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 40400


{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
```

```
    },
    "data" : {
      "uuid" : "e665caf5-6bea2fa4-b059-43a0-aeca-004ea40c83a7",
      "name" : "zXXxDbmroI",
      "description" :
"dMjpRocUdGzDHsDISnyiLPLudggtwxcLPZIMnoNvuEdbVryTslhNPkHVxPkEANWHITAtLKljPXiTldOxSdrPq
VBQmCGPxhdrQfMd",
      "includes" : [ {
        "matches" : [ {
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            "object_attribute" : "DN",
            "tenant" : {
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              "type" : "ENDS_WITH"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "qVfuQXfCbs",
              "type" : "CONTAINS"
            },
            "application_profile" : {
              "pattern" : "YQCwWcvWeJ",
              "type" : "EXACT"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "TyYpmnXRDY",
              "type" : "BEGINS_WITH"
            },
            "application_profile" : {
              "pattern" : "TWZPTlwfPN",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
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            "object_attribute" : "DN",
            "tenant" : {
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              "type" : "CONTAINS"
            },
            "application_profile" : {
              "pattern" : "KOjEPfqBaO",
              "type" : "ENDS_WITH"
            },
```

```
          "application_epg" : {
            "pattern" : "HvonPCDUSN",
            "type" : "ENDS_WITH"
          }
        }
      }, {
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            "type" : "NOT_BEGINS_WITH"
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          "application_profile" : {
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            "type" : "EXACT"
          },
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            "type" : "ENDS_WITH"
          }
        }
      }, {
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          "tenant" : {
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            "type" : "CONTAINS"
          },
          "vrf" : {
            "pattern" : "SjRCZeVwvA",
            "type" : "ENDS_WITH"
          }
        }
      }, {
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          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "NOT_BEGINS_WITH"
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            "type" : "NOT_CONTAINS"
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        }
      }, {
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          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qeesXMCzYd",
            "type" : "EXACT"
```

```
          },
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            "type" : "ENDS_WITH"
          }
        }
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            "type" : "CONTAINS"
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            "type" : "ENDS_WITH"
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        }
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            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "dAIXLoXweF",
```

```
            "type" : "ENDS_WITH"
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            "type" : "ENDS_WITH"
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        }
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            "type" : "EXACT"
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          "l2_ext_instp" : {
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            "type" : "NOT_CONTAINS"
          }
        }
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            "type" : "NOT_BEGINS_WITH"
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          "l3_ext_out" : {
            "pattern" : "ZOBZnUHKQx",
            "type" : "ENDS_WITH"
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            "type" : "EXACT"
          }
        }
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            "type" : "EXACT"
          }
        }
      }, {
        "tenant_match" : {
```

```
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      }
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        "tenant" : {
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          "type" : "ENDS_WITH"
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          "type" : "CONTAINS"
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          "type" : "NOT_BEGINS_WITH"
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          "type" : "NOT_CONTAINS"
        }
      }
    }, {
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        "tenant" : {
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```

```
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        "type" : "NOT_BEGINS_WITH"
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        "type" : "NOT_CONTAINS"
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    } ]
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          "type" : "NOT_CONTAINS"
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        "application_epg" : {
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        }
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              "type" : "ENDS_WITH"
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            }
          } ]
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            "type" : "NOT_BEGINS_WITH"
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          "l2_ext_instp" : {
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            "type" : "NOT_CONTAINS"
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          "type" : "BEGINS_WITH"
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          "type" : "ENDS_WITH"
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          "type" : "NOT_BEGINS_WITH"
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          "type" : "CONTAINS"
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    }, {
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          "type" : "BEGINS_WITH"
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          "type" : "EXACT"
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                "type" : "NOT_BEGINS_WITH"
              },
              "l3_ext_out" : {
                "pattern" : "uNJntibIny",
                "type" : "NOT_BEGINS_WITH"
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                "pattern" : "fVwZnWFzCb",
                "type" : "NOT_CONTAINS"
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          } ]
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            }
          }, {
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                "type" : "NOT_CONTAINS"
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              },
              "application_profile" : {
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              "type" : "BEGINS_WITH"
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              "type" : "CONTAINS"
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          }
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```json
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      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "EXACT"
        },
        "bd" : {
          "pattern" : "rxaIgYWABW",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ilhpjPaNPS",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "ReODqpxUPn",
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "kCHJYwRyCg",
          "type" : "ENDS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "FIVMLKSelP",
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "axJhCQOjgx",
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          "type" : "CONTAINS"
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          "type" : "NOT_CONTAINS"
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      }
    }, {
      "l2_ext_instp_match" : {
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          "type" : "CONTAINS"
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          "type" : "EXACT"
        },
        "l2_ext_instp" : {
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          "type" : "CONTAINS"
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      }
    }, {
      "l2_ext_instp_match" : {
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        "tenant" : {
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          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "TrtfdvugqK",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_instp" : {
          "pattern" : "eafBahuyun",
          "type" : "BEGINS_WITH"
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      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "hNtSHuNcWi",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "mKYGDjeLha",
          "type" : "ENDS_WITH"
        },
        "l3_ext_instp" : {
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            "type" : "BEGINS_WITH"
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "KoqTdgAkVb",
            "type" : "EXACT"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "dVDlrrvBcb",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "hGIoOngAXb",
            "type" : "ENDS_WITH"
          },
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            "type" : "EXACT"
          }
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      }, {
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            "type" : "CONTAINS"
          },
          "application_profile" : {
            "pattern" : "ZvWSDHogoG",
            "type" : "ENDS_WITH"
          },
          "application_epg" : {
            "pattern" : "KMOkioySYb",
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            "type" : "EXACT"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "eYFAQQBTkk",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "sSJGypJVnb",
            "type" : "NOT_CONTAINS"
          },
          "application_epg" : {
            "pattern" : "kFTydnlUSu",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
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          "tenant" : {
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            "type" : "EXACT"
          },
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            "type" : "EXACT"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FhDaEEpNEI",
            "type" : "BEGINS_WITH"
          },
          "vrf" : {
            "pattern" : "pRjqVqMKUm",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "JWvUJWImzQ",
            "type" : "BEGINS_WITH"
          },
          "bd" : {
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            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "CONTAINS"
          },
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            "pattern" : "mbhkIjLoTL",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "HjTZlfsutu",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "AqQwYGEHca",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "PBaTpYiYnx",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "UoocbFaoHn",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "DhBjMLTJlt",
            "type" : "NOT_BEGINS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "vFKEZmxfwy",
            "type" : "CONTAINS"
          }
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        }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "SborGdFRtw",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "WeaPGDkvnc",
          "type" : "ENDS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "ZNMmeVUxYG",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JnadogMXdr",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "iuYfvftgKJ",
          "type" : "EXACT"
        },
        "l2_ext_instp" : {
          "pattern" : "AZTsOCIZJO",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "beVNBaikpj",
          "type" : "NOT_BEGINS_WITH"
        },
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          "pattern" : "TAQttexeNv",
          "type" : "CONTAINS"
        },
        "l3_ext_instp" : {
          "pattern" : "eJKhumkxzx",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
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              "tenant" : {
                "pattern" : "yoPUZBcBCn",
                "type" : "EXACT"
              },
              "l3_ext_out" : {
                "pattern" : "CEEahydcDk",
                "type" : "CONTAINS"
              },
              "l3_ext_instp" : {
                "pattern" : "zwMdVobrGX",
                "type" : "NOT_BEGINS_WITH"
              }
            }
          } ]
        } ],
        "selector_type" : "OST_VRF"
      },
      "data_summary" : {
        "links" : [ {
          "rel" : "self",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors"
        }, {
          "rel" : "getObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
6bea2fa4-b059-43a0-aeca-004ea40c83a7"
        }, {
          "rel" : "getObjectSelectors",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
selectors?queryParams={queryParams}"
        }, {
          "rel" : "generateObjectSelectorPreviewResults",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
selectors/preview?queryParams={queryParams}"
        }, {
          "rel" : "editObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
6bea2fa4-b059-43a0-aeca-004ea40c83a7"
        }, {
          "rel" : "deleteObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
6bea2fa4-b059-43a0-aeca-004ea40c83a7"
        } ],
        "total_count" : 1,
        "has_more_data" : false
```

```
      }
    }
  }
```

Request Fields

Path	Type	Description
name	String	Name of the object selector.
description	String	Description of the object selector.
selector_type	String	Type of the selector used.
excludes	Array	Pattern for the objects to be excluded.
includes[].matches[].tenant_match.object_attribute	String	String value of the object attribute.
includes[].matches[].tenant_match.tenant.pattern	String	The pattern matched by the operator.
includes[].matches[].tenant_match.tenant.type	String	Operator for the matching pattern.
includes[].matches[].application_profile_match.object_attribute	String	String value of the object attribute.
includes[].matches[].application_profile_match.tenant.pattern	String	The pattern matched by the operator.
includes[].matches[].application_profile_match.tenant.type	String	Operator for the matching pattern.
includes[].matches[].application_profile_match.application_profile.object_attribute	String	String value of the object attribute.
includes[].matches[].application_profile_match.application_profile.pattern	String	The pattern matched by the operator.
includes[].matches[].application_profile_match.application_profile.type	String	Operator for the matching pattern.
includes[].matches[].application_epgmatch.object_attribute	String	String value of the object attribute.
includes[].matches[].application_epgmatch.tenant.pattern	String	The pattern matched by the operator.
includes[].matches[].application_epgmatch.tenant.type	String	Operator for the matching pattern.
includes[].matches[].application_epgmatch.application_profile.object_attribute	String	String value of the object attribute.
includes[].matches[].application_epgmatch.application_profile.pattern	String	The pattern matched by the operator.

Path	Type	Description
`includes[].matches[].application_epgmatch.application_profile.type`	`String`	Operator for the matching pattern.
`includes[].matches[].application_epgmatch.application_epg.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].application_epgmatch.application_epg.type`	`String`	Operator for the matching pattern.
`includes[].matches[].vrf_match.object_attribute`	`String`	String value of the object attribute.
`includes[].matches[].vrf_match.tenant.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].vrf_match.tenant.type`	`String`	Operator for the matching pattern.
`includes[].matches[].vrf_match.vrf.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].vrf_match.vrf.type`	`String`	Operator for the matching pattern.
`includes[].matches[].bd_match.object_attribute`	`String`	String value of the object attribute.
`includes[].matches[].bd_match.tenant.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].bd_match.tenant.type`	`String`	Operator for the matching pattern.
`includes[].matches[].bd_match.bd.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].bd_match.bd.type`	`String`	Operator for the matching pattern.
`includes[].matches[].l2_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`includes[].matches[].l2_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].l2_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.
`includes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].l2_ext_out_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`includes[].matches[].l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`includes[].matches[].l2_ext_out.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`includes[].matches[].l3_ext_out_match.object_attribute`	String	String value of the object attribute.
`includes[].matches[].l3_ext_out_match.tenant.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_out_match.tenant.type`	String	Operator for the matching pattern.
`includes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_out_match.l3_ext_out.type`	String	Operator for the matching pattern.
`includes[].matches[].l3_ext_out.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_out.type`	String	Operator for the matching pattern.
`includes[].matches[].l2_ext_instp_match.object_attribute`	String	String value of the object attribute.
`includes[].matches[].l2_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l2_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`includes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l2_ext_instp_match.l2_ext_out.type`	String	Operator for the matching pattern.
`includes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	String	Operator for the matching pattern.
`includes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l2_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`includes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`includes[].matches[].l3_ext_instp_match.object_attribute`	String	String value of the object attribute.
`includes[].matches[].l3_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_instp_match.tenant.type`	String	Operator for the matching pattern.

Path	Type	Description
`includes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`includes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`includes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`excludes[].matches[].tenant_match.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].tenant_match.tenant.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].tenant_match.tenant.type`	String	Operator for the matching pattern.
`excludes[].matches[].application_profile_match.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].application_profile_match.tenant.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].application_profile_match.tenant.type`	String	Operator for the matching pattern.
`excludes[].matches[].application_profile_match.application_profile.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].application_profile_match.application_profile.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].application_profile_match.application_profile.type`	String	Operator for the matching pattern.
`excludes[].matches[].application_epgmatch.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].application_epgmatch.tenant.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].application_epgmatch.tenant.type`	String	Operator for the matching pattern.
`excludes[].matches[].application_epgmatch.application_profile.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].application_epgmatch.application_profile.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].application_epgmatch.application_profile.type`	String	Operator for the matching pattern.

Path	Type	Description
excludes[].matches[].application_epgmatch.application_epg.pattern	String	The pattern matched by the operator.
excludes[].matches[].application_epgmatch.application_epg.type	String	Operator for the matching pattern.
excludes[].matches[].vrf_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].vrf_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].vrf_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].vrf_match.vrf.pattern	String	The pattern matched by the operator.
excludes[].matches[].vrf_match.vrf.type	String	Operator for the matching pattern.
excludes[].matches[].bd_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].bd_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].bd_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].bd_match.bd.pattern	String	The pattern matched by the operator.
excludes[].matches[].bd_match.bd.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_out_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l2_ext_out_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_out_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_out_match.l2_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_out_match.l2_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_out_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l3_ext_out_match.tenant.pattern	String	The pattern matched by the operator.

Path	Type	Description
excludes[].matches[].l3_ext_out_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_out_match.l3_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_out_match.l3_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_instp_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l2_ext_instp_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_instp_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_instp_match.l2_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_instp_match.l2_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_instp_match.l2_ext_instp.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_instp_match.l3_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_instp_match.l3_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_instp_match.l3_ext_instp.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_instp_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l3_ext_instp_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_instp_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_instp_match.l3_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_instp_match.l3_ext_out.type	String	Operator for the matching pattern.

Path	Type	Description
`excludes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.

Response Fields

Path	Type	Description
`value.data.uuid`	String	Unique identifier of the object selector resource
`value.data.name`	String	Name of the object selector.
`value.data.description`	String	Description of the object selector.
`value.data.selector_type`	String	Type of the selector used.
`value.data.excludes`	Array	Pattern for the objects to be excluded.
`value.data.includes[].matches[].tenant_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].tenant_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].tenant_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_profile_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_profile_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_profile_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_profile_match.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_profile_match.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_profile_match.application_profile.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_epgmatch.tenant.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.includes[].matches[].application_epgmatch.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.application_profile.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].application_epgmatch.application_profile.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].application_epgmatch.application_profile.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.application_epg.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].application_epgmatch.application_epg.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].vrf_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].vrf_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].vrf_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].vrf_match.vrf.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].vrf_match.vrf.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].bd_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].bd_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].bd_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].bd_match.bd.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].bd_match.bd.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l2_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l3_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].tenant_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].tenant_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].tenant_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_profile_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.application_profile.object_attribute`	String	String value of the object attribute.

Path	Type	Description
`value.data.excludes[].matches[].application_profile_match.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.application_profile.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.application_profile.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_epg.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.application_epg.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].vrf_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].vrf_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].vrf_match.vrf.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.vrf.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].bd_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].bd_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.bd.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.excludes[].matches[].bd_match.bd.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_out_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Path	Type	Description
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get Object Selector

A `GET` request returns a record of the object selector if an object selector with the specified ID is present.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/object-selectors/e665caf5-b0b1560c-c929-41bf-a2f5-
415322c84b33 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 34145

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-b0b1560c-c929-41bf-a2f5-415322c84b33",
      "name" : "CslaVFqzFV",
      "description" :
 "FctFEFmLqZQDqguHTFBLWagVfmMCbDJjPBtOSeyxpHighsUeodPUHXOggrbWhmoEtCIGzGlqIBUJbzVlpDrNB
 rHNGFSiYCRHtGjn",
      "includes" : [ {
        "matches" : [ {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "FzcKfXxclb",
```

```
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "ccswvtEYoz",
            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "QIWAFkqwDD",
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "CRtoOssPcg",
            "type" : "CONTAINS"
          },
          "application_profile" : {
            "pattern" : "giohVuzrqK",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "ouciOMZmjZ",
            "type" : "ENDS_WITH"
          },
          "application_profile" : {
            "pattern" : "KonYlsVTYl",
            "type" : "ENDS_WITH"
          },
          "application_epg" : {
            "pattern" : "BOJGlgkacl",
            "type" : "EXACT"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "AWEjiMtmZK",
            "type" : "BEGINS_WITH"
          },
          "vrf" : {
```

```
            "pattern" : "rtFTlVyCRR",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "TapebzNFCC",
            "type" : "ENDS_WITH"
          },
          "bd" : {
            "pattern" : "GvqbyNQTcV",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "CZmnyDrfDY",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "qACeUknERC",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "rnjmqjawJu",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "nlGGUojXGk",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "yMMKIzRscn",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "WkMPzhFsGd",
            "type" : "NOT_CONTAINS"
          }
```

```json
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "IMZVPFqpaL",
            "type" : "NOT_CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "sMmBdVpjra",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "WJBpJKCCIe",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "uWZCGBlGhG",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "MOUOamQXko",
            "type" : "ENDS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "JqDpsGwCvG",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FjPPDgRIDV",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "VAZcfwlRJp",
            "type" : "NOT_CONTAINS"
          }
        }
```

```
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "vRDUVNIyln",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "aiUnkogZvK",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "MivNibeTbx",
          "type" : "NOT_CONTAINS"
        },
        "application_profile" : {
          "pattern" : "sNHuhJLMoK",
          "type" : "NOT_CONTAINS"
        },
        "application_epg" : {
          "pattern" : "VjjeTkmjnB",
          "type" : "CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "PRXIBTNNaQ",
          "type" : "EXACT"
        },
        "application_profile" : {
          "pattern" : "TFPgJCZIsu",
          "type" : "NOT_CONTAINS"
        },
        "application_epg" : {
          "pattern" : "QjSFKVvptW",
          "type" : "CONTAINS"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "onNicmEvHJ",
          "type" : "NOT_BEGINS_WITH"
        },
```

```
          "vrf" : {
            "pattern" : "tdyrWOXVqk",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "AZFJqCMduZ",
            "type" : "NOT_CONTAINS"
          },
          "vrf" : {
            "pattern" : "GTKYSUoyjC",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "OlgcBCrymY",
            "type" : "NOT_BEGINS_WITH"
          },
          "bd" : {
            "pattern" : "joeYNHvFXB",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "MJfGgqMYlM",
            "type" : "NOT_CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "kWQzAAObwo",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "KvInNecRFs",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "XAOBYHxsAE",
            "type" : "NOT_BEGINS_WITH"
```

```
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ftwERiAqFn",
          "type" : "ENDS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "qIuzGIJVKi",
          "type" : "EXACT"
        },
        "l2_ext_instp" : {
          "pattern" : "hnSkEFNBWm",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "YUgvmaisZy",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "rMgzcvMwHb",
          "type" : "CONTAINS"
        },
        "l2_ext_instp" : {
          "pattern" : "GudQbDDWCr",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "LUwwgRpXBJ",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "kknnjanfUw",
          "type" : "CONTAINS"
        },
        "l3_ext_instp" : {
          "pattern" : "QXXmWcgWXx",
          "type" : "EXACT"
        }
      }
    } ]
```

```
      }, {
        "matches" : [ {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
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          "l3_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "OHYYYCaCMa",
              "type" : "CONTAINS"
            },
            "l3_ext_out" : {
              "pattern" : "DUgVEcYZDI",
              "type" : "EXACT"
```

```
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "nuZYlEWBSr",
            "type" : "EXACT"
          },
          "l2_ext_out" : {
            "pattern" : "vMilDNsEeF",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "FPvhloCugy",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "ncmSLADgUx",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "DWWxCfMIru",
            "type" : "EXACT"
          },
          "l3_ext_instp" : {
            "pattern" : "ZBtqeeUzTX",
            "type" : "ENDS_WITH"
          }
        }
      } ]
    } ],
    "selector_type" : "OST_EPG"
  },
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
b0b1560c-c929-41bf-a2f5-415322c84b33"
    }, {
      "rel" : "getObjectSelectors",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
selectors?queryParams={queryParams}"
    }, {
      "rel" : "generateObjectSelectorPreviewResults",
```

```
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
      e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
      selectors/preview?queryParams={queryParams}"
        }, {
          "rel" : "saveObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
      e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors"
        }, {
          "rel" : "editObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
      e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
      b0b1560c-c929-41bf-a2f5-415322c84b33"
        }, {
          "rel" : "deleteObjectSelector",
          "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
      e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
      b0b1560c-c929-41bf-a2f5-415322c84b33"
        } ],
        "total_count" : 1,
        "has_more_data" : false
      }
    }
  }
```

Path Parameters

Table 23. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/object-selectors/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the resource.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier of the object selector resource
value.data.name	String	Name of the object selector.
value.data.description	String	Description of the object selector.
value.data.selector_type	String	Type of the selector used.
value.data.excludes	Array	Pattern for the objects to be excluded.
value.data.includes[].matches[].tenant_match.object_attribute	String	String value of the object attribute.
value.data.includes[].matches[].tenant_match.tenant.pattern	String	The pattern matched by the operator.

Path	Type	Description

`value.data.includes[`
`].matches[`
`].tenant_match.tenant.type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[`
`].application_profile_match.ob`
`ject_attribute`
	`String`	String value of the object attribute.

`value.data.includes[].matches[`
`].application_profile_match.te`
`nant.pattern`
	`String`	The pattern matched by the operator.

`value.data.includes[].matches[`
`].application_profile_match.te`
`nant.type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[`
`].application_profile_match.ap`
`plication_profile.object_attri`
`bute`
	`String`	String value of the object attribute.

`value.data.includes[].matches[`
`].application_profile_match.ap`
`plication_profile.pattern`
	`String`	The pattern matched by the operator.

`value.data.includes[].matches[`
`].application_profile_match.ap`
`plication_profile.type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[`
`].application_epgmatch.object_`
`attribute`
	`String`	String value of the object attribute.

`value.data.includes[].matches[`
`].application_epgmatch.tenant.`
`pattern`
	`String`	The pattern matched by the operator.

`value.data.includes[].matches[`
`].application_epgmatch.tenant.`
`type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[`
`].application_epgmatch.applica`
`tion_profile.object_attribute`
	`String`	String value of the object attribute.

`value.data.includes[].matches[`
`].application_epgmatch.applica`
`tion_profile.pattern`
	`String`	The pattern matched by the operator.

`value.data.includes[].matches[`
`].application_epgmatch.applica`
`tion_profile.type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[`
`].application_epgmatch.applica`
`tion_epg.pattern`
	`String`	The pattern matched by the operator.

`value.data.includes[].matches[`
`].application_epgmatch.applica`
`tion_epg.type`
	`String`	Operator for the matching pattern.

`value.data.includes[].matches[` `].vrf_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[` `].vrf_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[` `].vrf_match.tenant.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].vrf_match.vrf.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].vrf_match.vrf.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].bd_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].bd_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].bd_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].bd_match.bd.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].bd_match.bd.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l2_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l3_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.object_attribute`	`String`	String value of the object attribute.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].tenant_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].tenant_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].tenant_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_profile_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_profile_match.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.application_profile.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.application_profile.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_epg.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.excludes[].matches[].application_epgmatch.application_epg.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].vrf_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].vrf_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].vrf_match.vrf.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.vrf.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].bd_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].bd_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.bd.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].bd_match.bd.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_out_match.tenant.pattern`	`String`	The pattern matched by the operator.

Path	Type	Description
`value.data.excludes[].matches[].l3_ext_out_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get Object Selectors

A `GET` request returns the records of all object selectors.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/object-
selectors?$sort=epg_selector_A_name&$page=0&$size=50 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1068

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "e665caf5-a05381a5-692e-46b1-9920-0372faccd620",
      "name" : "NpIYblRwec",
      "description" :
"hDWqWGvVPlHGcpaHztsDaIzmrwvyGjHHtfVAtAxFSyzjWpSZfdWZkvtcTExqWWAqBrPaYlLiZgFxEOSuRAvnn
EZAZGkfuJizUivH",
      "associated_requirements" : [ ],
      "selector_type" : "OST_EPG"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "saveObjectSelector",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors"
      }, {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
selectors?$sort=epg_selector_A_name&$page=0&$size=50"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Response Fields

Path	Type	Description
value.data[].uuid	String	Unique identifier of the object selector.
value.data[].name	String	Name of the object selector.
value.data[].description	String	Description of the object selector.

Path	Type	Description
value.data[].associated_requirements[]	Array	List with names of the associate requirements.
value.data[].selector_type	String	Type of the selector.
success	Boolean	Boolean value indicating whether the action completed successfully.
value.namespaces.default	String	Used namespace.
value.data_summary.total_count	Number	Number of items.
value.data_summary.has_more_data	Boolean	Boolean value indicating whether more data is available to be displayed.
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.
value.data_summary.page_size	Number	Integer value that states the page size.
value.data_summary.current_page_number	Number	Integer value that states the current page number.
value.data_summary.total_page_count	Number	Integer value that states the number of pages.

Edit Object Selectors

A PUT request updates the object selectors if an object selector with the specified ID is present.

Example Request

```
PUT /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/object-selectors/e665caf5-2daf4abc-31cf-4ca4-8f11-
60281af6762b HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 25925

{
  "uuid" : "e665caf5-2daf4abc-31cf-4ca4-8f11-60281af6762b",
  "name" : "updated-name",
  "description" :
"msdTPEDDwRfUeHuxdRTKkPtuGgWEJjJHDEpEtRXhPKUHTolhoRcRPXBzqdUoxmSiYNDQkdLcSNFVsLRQtvQzW
hvYnxjUoYuVREmy",
```

```
"includes" : [ {
  "matches" : [ {
    "tenant_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "fkQCBAGSBa",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "application_profile_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "lthnjDsbuV",
        "type" : "EXACT"
      },
      "application_profile" : {
        "pattern" : "IxmuatGnUf",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "application_epgmatch" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "FVRpJNAoMN",
        "type" : "BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "GlQumwyMer",
        "type" : "ENDS_WITH"
      },
      "application_epg" : {
        "pattern" : "EaMOVdOgQE",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
    "application_epgmatch" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "PmUJcqyZla",
        "type" : "NOT_BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "UMGIQVqnfY",
        "type" : "CONTAINS"
      },
      "application_epg" : {
        "pattern" : "qNRnPFrNom",
        "type" : "ENDS_WITH"
```

```
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "NOT_BEGINS_WITH"
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        "vrf" : {
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          "type" : "BEGINS_WITH"
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      }
    }, {
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        "tenant" : {
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          "type" : "EXACT"
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        "bd" : {
          "pattern" : "duMYoMBcbf",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "NOT_CONTAINS"
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        "bd" : {
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          "type" : "NOT_BEGINS_WITH"
        }
      }
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        "tenant" : {
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          "type" : "EXACT"
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        "l2_ext_out" : {
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          "type" : "NOT_CONTAINS"
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      }
    }, {
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            "type" : "NOT_BEGINS_WITH"
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          "tenant" : {
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            "type" : "BEGINS_WITH"
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            "pattern" : "VcRbVVecdS",
            "type" : "BEGINS_WITH"
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            "type" : "NOT_BEGINS_WITH"
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          "l2_ext_instp" : {
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        "l3_ext_instp" : {
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        "l3_ext_instp" : {
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          "type" : "NOT_BEGINS_WITH"
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    } ]
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          "type" : "NOT_BEGINS_WITH"
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        "application_profile" : {
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          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
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          "type" : "BEGINS_WITH"
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        "application_epg" : {
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      }
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        }
      }
    }, {
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        "tenant" : {
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          "type" : "ENDS_WITH"
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          "type" : "CONTAINS"
        }
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    }, {
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        "object_attribute" : "DN",
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        "bd" : {
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          "type" : "EXACT"
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    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
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          "type" : "ENDS_WITH"
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          "type" : "BEGINS_WITH"
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          "type" : "ENDS_WITH"
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    }, {
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          "type" : "NOT_BEGINS_WITH"
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          "type" : "CONTAINS"
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        "l2_ext_instp" : {
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          "type" : "BEGINS_WITH"
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          }
        }
      }, {
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            "type" : "CONTAINS"
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            "type" : "CONTAINS"
          },
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            "type" : "NOT_CONTAINS"
          },
          "l3_ext_instp" : {
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            "type" : "NOT_BEGINS_WITH"
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        }
      } ]
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      }, {
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          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LsQwakaVZB",
            "type" : "BEGINS_WITH"
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      }
    }, {
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          "type" : "CONTAINS"
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        "application_profile" : {
          "pattern" : "StHzWOGaWV",
          "type" : "ENDS_WITH"
        }
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    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "kazQRbBndc",
          "type" : "BEGINS_WITH"
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          "type" : "BEGINS_WITH"
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        "application_epg" : {
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "NOT_CONTAINS"
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        "vrf" : {
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          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
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        "type" : "CONTAINS"
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  }, {
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        "pattern" : "PbrYLbywlG",
        "type" : "CONTAINS"
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      "tenant" : {
        "pattern" : "pEsgXfEmFy",
        "type" : "EXACT"
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      "bd" : {
        "pattern" : "xnULiUEElS",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "l2_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "uQnbJyRPha",
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        "type" : "EXACT"
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  }, {
    "l2_ext_out_match" : {
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    }
  }, {
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      "object_attribute" : "DN",
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        "type" : "EXACT"
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        "type" : "NOT_BEGINS_WITH"
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      "tenant" : {
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        "type" : "NOT_BEGINS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "szbmowRrAS",
        "type" : "BEGINS_WITH"
      },
      "l2_ext_instp" : {
        "pattern" : "zQYjYmkrRQ",
        "type" : "BEGINS_WITH"
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    }
  }, {
    "l3_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "QjRtHNUNwZ",
        "type" : "CONTAINS"
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      "l3_ext_out" : {
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        "type" : "EXACT"
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      "l3_ext_instp" : {
        "pattern" : "lbeJfEsVbE",
        "type" : "NOT_CONTAINS"
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    }
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            "type" : "NOT_CONTAINS"
          },
          "l3_ext_instp" : {
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            "type" : "BEGINS_WITH"
          }
        }
      } ]
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            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "BEGINS_WITH"
          }
        }
      }, {
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            "type" : "NOT_BEGINS_WITH"
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            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "application_epgmatch" : {
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          "tenant" : {
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            "type" : "CONTAINS"
          },
          "application_profile" : {
```

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            "pattern" : "SyWJkFmtjR",
            "type" : "NOT_BEGINS_WITH"
          },
          "application_epg" : {
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            "type" : "EXACT"
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          "tenant" : {
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            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "GwNjGIcBtb",
            "type" : "NOT_CONTAINS"
          },
          "application_epg" : {
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            "type" : "CONTAINS"
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        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "CONTAINS"
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            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "BEGINS_WITH"
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          "vrf" : {
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            "type" : "CONTAINS"
          }
        }
      }, {
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          "object_attribute" : "DN",
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        "type" : "NOT_CONTAINS"
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      "bd" : {
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        "type" : "EXACT"
      }
    }
  }, {
    "l2_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "UpuMPHpvaK",
        "type" : "ENDS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "jVoGFJgxmp",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "l3_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "hkUBLVSztJ",
        "type" : "NOT_BEGINS_WITH"
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      "l3_ext_out" : {
        "pattern" : "CShLGwttcq",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "KbHffUOMJJ",
        "type" : "EXACT"
      },
      "l2_ext_out" : {
        "pattern" : "sRKDcwqbZj",
        "type" : "NOT_BEGINS_WITH"
      },
      "l2_ext_instp" : {
        "pattern" : "gDCACXdrMd",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
    "l3_ext_instp_match" : {
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            "type" : "NOT_BEGINS_WITH"
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          "l3_ext_instp" : {
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            "type" : "EXACT"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "BEGINS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "kIARAVCLqQ",
            "type" : "CONTAINS"
          },
          "l3_ext_instp" : {
            "pattern" : "MDooHHGirW",
            "type" : "ENDS_WITH"
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qkvpfqDcgk",
            "type" : "ENDS_WITH"
          },
          "application_profile" : {
            "pattern" : "neBMbQNEOH",
            "type" : "BEGINS_WITH"
          }
        }
```

```
        }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
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        },
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          "type" : "NOT_CONTAINS"
        },
        "application_epg" : {
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "ENDS_WITH"
        },
        "vrf" : {
          "pattern" : "YkXWMbCaJh",
          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "object_attribute" : "DN",
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        "vrf" : {
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        }
      }
    }, {
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        "tenant" : {
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        },
        "bd" : {
          "pattern" : "banfrkRcTE",
          "type" : "NOT_CONTAINS"
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```
      }
    }
  }, {
    "bd_match" : {
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      "tenant" : {
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        "type" : "CONTAINS"
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    }
  }, {
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        "type" : "CONTAINS"
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    }
  }, {
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        "type" : "CONTAINS"
      },
      "l2_ext_out" : {
        "pattern" : "yWUMxMSXef",
        "type" : "EXACT"
      }
    }
  }, {
    "l3_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "qXREuCPDmq",
        "type" : "ENDS_WITH"
      },
      "l3_ext_out" : {
        "pattern" : "rmHqxBfnlE",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
```

```
          "l2_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "unxTvsQall",
              "type" : "ENDS_WITH"
            },
            "l2_ext_out" : {
              "pattern" : "mwZTPzgrOf",
              "type" : "ENDS_WITH"
            },
            "l2_ext_instp" : {
              "pattern" : "cabcnwvZJD",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "allheaBgWD",
              "type" : "EXACT"
            },
            "l3_ext_out" : {
              "pattern" : "dRWLeBIwry",
              "type" : "ENDS_WITH"
            },
            "l3_ext_instp" : {
              "pattern" : "kUYzDQZziO",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "fQmpRIcrBG",
              "type" : "NOT_BEGINS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "lrhnFkKQNz",
              "type" : "EXACT"
            },
            "l3_ext_instp" : {
              "pattern" : "gbsxyYzQfY",
              "type" : "CONTAINS"
            }
          }
        } ]
      }, {
        "matches" : [ {
          "tenant_match" : {
```

```
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "wxycrwJcmt",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ZpqCfXSnvG",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "fhhYnMDOxT",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "sInqvqSKEh",
          "type" : "NOT_BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "PwCNTPgHqm",
          "type" : "BEGINS_WITH"
        },
        "application_epg" : {
          "pattern" : "GjHNyuuBup",
          "type" : "EXACT"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "AKhEADbtpp",
          "type" : "EXACT"
        },
        "application_profile" : {
          "pattern" : "DwDHhlgOac",
          "type" : "CONTAINS"
        },
        "application_epg" : {
          "pattern" : "iXKDDUXNlF",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
```

```
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "cAkOHNxISO",
          "type" : "NOT_BEGINS_WITH"
        },
        "vrf" : {
          "pattern" : "qrkxgUytkU",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "vzJMKgZoQU",
          "type" : "NOT_BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "jykOfmBpzS",
          "type" : "CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "EWicEwvsiB",
          "type" : "NOT_CONTAINS"
        },
        "bd" : {
          "pattern" : "jbgJyKUpgR",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "euknkzghAF",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "UIjhhbPZPb",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
```

```
        "pattern" : "qDKvaVbYiZ",
        "type" : "NOT_CONTAINS"
      },
      "l3_ext_out" : {
        "pattern" : "hHOLnHEaDP",
        "type" : "CONTAINS"
      }
    }
  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "sJEBQeUbLo",
        "type" : "ENDS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "kUTgLDvHth",
        "type" : "ENDS_WITH"
      },
      "l2_ext_instp" : {
        "pattern" : "lcFdfzqEpE",
        "type" : "EXACT"
      }
    }
  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "RhAGFACjBR",
        "type" : "NOT_BEGINS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "nZfQlMfXcM",
        "type" : "CONTAINS"
      },
      "l2_ext_instp" : {
        "pattern" : "onIdtGvjGA",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "l3_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "aJRgVRkAbo",
        "type" : "CONTAINS"
      },
      "l3_ext_out" : {
        "pattern" : "ToNexNMtVL",
        "type" : "ENDS_WITH"
      },
```

```
        "l3_ext_instp" : {
          "pattern" : "KuZYjXWebo",
          "type" : "CONTAINS"
        }
      }
    } ]
  } ],
  "selector_type" : "OST_EPG"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 31721

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "e665caf5-2daf4abc-31cf-4ca4-8f11-60281af6762b",
      "name" : "updated-name",
      "description" :
"msdTPEDDwRfUeHuxdRTKkPtuGgWEJjJHDEpEtRXhPKUHTolhoRcRPXBzqdUoxmSiYNDQkdLcSNFVsLRQtvQzW
hvYnxjUoYuVREmy",
      "includes" : [ {
        "matches" : [ {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "fkQCBAGSBa",
              "type" : "ENDS_WITH"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "lthnjDsbuV",
              "type" : "EXACT"
            },
            "application_profile" : {
              "pattern" : "IxmuatGnUf",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
```

```
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FVRpJNAoMN",
            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "GlQumwyMer",
            "type" : "ENDS_WITH"
          },
          "application_epg" : {
            "pattern" : "EaMOVdOgQE",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "PmUJcqyZla",
            "type" : "NOT_BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "UMGIQVqnfY",
            "type" : "CONTAINS"
          },
          "application_epg" : {
            "pattern" : "qNRnPFrNom",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "VaJNDymXln",
            "type" : "NOT_BEGINS_WITH"
          },
          "vrf" : {
            "pattern" : "hCtiilPbhv",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "tnblwQAfZL",
            "type" : "EXACT"
          },
          "bd" : {
```

```
            "pattern" : "duMYoMBcbf",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "ndNXtBXjcw",
            "type" : "NOT_CONTAINS"
          },
          "bd" : {
            "pattern" : "aIeLIEuokJ",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "wRwVuRuwkF",
            "type" : "EXACT"
          },
          "l2_ext_out" : {
            "pattern" : "FBgHQlDrnm",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "KCDelisFXm",
            "type" : "NOT_CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "rITsnDvbxZ",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "cpPIVGtdON",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "peODmCRLIc",
            "type" : "EXACT"
          }
```

```
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "IDjYqioCFb",
            "type" : "BEGINS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "VcRbVVecdS",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "jDgHxdyHOR",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "CoRoSaZWOJ",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "RSeCRqsKmk",
            "type" : "EXACT"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "aTpNSuKqzi",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "YZzElnKeNa",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "FyBdoLkOwb",
            "type" : "EXACT"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "wTpkrqgKii",
            "type" : "NOT_BEGINS_WITH"
```

```
        },
        "l3_ext_out" : {
          "pattern" : "emYtQxxDZI",
          "type" : "EXACT"
        },
        "l3_ext_instp" : {
          "pattern" : "nRBRaBOsmI",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "IRtamYzeGX",
          "type" : "NOT_CONTAINS"
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        "l3_ext_out" : {
          "pattern" : "trizqYrxEt",
          "type" : "BEGINS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "VWYuaMfYeD",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    } ]
  }, {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "WaxDTcmhzm",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ShAmLDhEIK",
          "type" : "EXACT"
        },
        "application_profile" : {
          "pattern" : "WTxfiddxsM",
          "type" : "CONTAINS"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
```

```
      "tenant" : {
        "pattern" : "hUJekQrWDT",
        "type" : "NOT_BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "LrjnTbJRtz",
        "type" : "NOT_BEGINS_WITH"
      }
    }
  }, {
    "application_epgmatch" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "BCQhkXDxgI",
        "type" : "NOT_BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "fMhATjXVAW",
        "type" : "BEGINS_WITH"
      },
      "application_epg" : {
        "pattern" : "UkdEOWaAzr",
        "type" : "NOT_BEGINS_WITH"
      }
    }
  }, {
    "application_epgmatch" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "odLRWtRJLd",
        "type" : "NOT_BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "WEpmHEPKTh",
        "type" : "BEGINS_WITH"
      },
      "application_epg" : {
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        "type" : "BEGINS_WITH"
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    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "mmqtXmkJcv",
        "type" : "BEGINS_WITH"
      },
      "vrf" : {
        "pattern" : "xYWiUdGxwb",
        "type" : "BEGINS_WITH"
```

```
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "LTpWiOWDrA",
          "type" : "ENDS_WITH"
        },
        "bd" : {
          "pattern" : "ilkkFLnEcK",
          "type" : "CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "jXFiSFYEbM",
          "type" : "NOT_BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "ukrvCRkWWK",
          "type" : "EXACT"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ZTnZuzsvyL",
          "type" : "ENDS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "ncxiatxVPV",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "hswVDhIfLZ",
          "type" : "BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "TCGJGwElRX",
          "type" : "ENDS_WITH"
        }
      }
    }, {
```

```
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "iolGrjpxqR",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "SoerIMqYQI",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "bDKwmexfUz",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "pLefHFOxVL",
            "type" : "EXACT"
          },
          "l2_ext_out" : {
            "pattern" : "qIttIjDMYh",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "dvOeLBlisl",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "wzhKyUkSWa",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "RpnQmUAbxq",
            "type" : "CONTAINS"
          },
          "l3_ext_instp" : {
            "pattern" : "NHJkLSNCWn",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
```

```
            "pattern" : "EMuFtenJpV",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "PgUcqmpoVc",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_instp" : {
            "pattern" : "SpdIuXPWpw",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      } ]
    } ],
    "excludes" : [ {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qHvuKouYEc",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LsQwakaVZB",
            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "kdmvnqmxxy",
            "type" : "EXACT"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "kjTsdlsOtC",
            "type" : "CONTAINS"
          },
          "application_profile" : {
            "pattern" : "StHzWOGaWV",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
```

```
        "pattern" : "kazQRbBndc",
        "type" : "BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "XnAPTeihVg",
        "type" : "BEGINS_WITH"
      },
      "application_epg" : {
        "pattern" : "exKNPbxEmm",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "txjTKTWCcX",
        "type" : "NOT_CONTAINS"
      },
      "vrf" : {
        "pattern" : "ZZVKsdYIgH",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "gflefLrBpt",
        "type" : "BEGINS_WITH"
      },
      "vrf" : {
        "pattern" : "hhCyukvjGb",
        "type" : "CONTAINS"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "GvcxeWSGFl",
        "type" : "EXACT"
      },
      "bd" : {
        "pattern" : "PbrYLbywlG",
        "type" : "CONTAINS"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
```

```
          "tenant" : {
            "pattern" : "pEsgXfEmFy",
            "type" : "EXACT"
          },
          "bd" : {
            "pattern" : "xnULiUEElS",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "uQnbJyRPha",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "WdZYSBialH",
            "type" : "EXACT"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "uZfdVpvNvP",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "wwFvhwOUYG",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FtOnArQqDY",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "hrYEcPyFFv",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LItGSRZwOX",
            "type" : "NOT_BEGINS_WITH"
```

```
          },
          "l2_ext_out" : {
            "pattern" : "szbmowRrAS",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "zQYjYmkrRQ",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "QjRtHNUNwZ",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "HlJrfmVDEE",
            "type" : "EXACT"
          },
          "l3_ext_instp" : {
            "pattern" : "lbeJfEsVbE",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "vGjkzgEcfB",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "GuezoQheNB",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_instp" : {
            "pattern" : "NQMFFufnmP",
            "type" : "BEGINS_WITH"
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "leVcVrkQtl",
            "type" : "NOT_CONTAINS"
          }
```

```
          }
        }, {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "yMqBhQaora",
              "type" : "BEGINS_WITH"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "AkrZQZDXwQ",
              "type" : "NOT_BEGINS_WITH"
            },
            "application_profile" : {
              "pattern" : "cEMHVSHakI",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
          "application_epgmatch" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "NUvwppernS",
              "type" : "CONTAINS"
            },
            "application_profile" : {
              "pattern" : "SyWJkFmtjR",
              "type" : "NOT_BEGINS_WITH"
            },
            "application_epg" : {
              "pattern" : "IYoHzZAdHc",
              "type" : "EXACT"
            }
          }
        }, {
          "application_epgmatch" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "NxlgzAZeQk",
              "type" : "NOT_CONTAINS"
            },
            "application_profile" : {
              "pattern" : "GwNjGIcBtb",
              "type" : "NOT_CONTAINS"
            },
            "application_epg" : {
              "pattern" : "HxBkOczUFQ",
              "type" : "CONTAINS"
```

```
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FYKuUWYqwK",
            "type" : "CONTAINS"
          },
          "vrf" : {
            "pattern" : "lqkOqWONSo",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "DkXUpKTGBJ",
            "type" : "BEGINS_WITH"
          },
          "vrf" : {
            "pattern" : "oZmbCbwLRP",
            "type" : "CONTAINS"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "bhVjggRjGW",
            "type" : "NOT_CONTAINS"
          },
          "bd" : {
            "pattern" : "yySoeuPWaB",
            "type" : "EXACT"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "UpuMPHpvaK",
            "type" : "ENDS_WITH"
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          "l2_ext_out" : {
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            "type" : "NOT_CONTAINS"
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        }
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```

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          "type" : "NOT_BEGINS_WITH"
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        "l3_ext_out" : {
          "pattern" : "CShLGwttcq",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "KbHffUOMJJ",
          "type" : "EXACT"
        },
        "l2_ext_out" : {
          "pattern" : "sRKDcwqbZj",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "gDCACXdrMd",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "UKzVxLgvXB",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "mgctvhxJxM",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "hHhhJqbMvy",
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "QVvgCdBFYN",
          "type" : "BEGINS_WITH"
        },
        "l3_ext_out" : {
```

```
              "pattern" : "kIARAVCLqQ",
              "type" : "CONTAINS"
            },
            "l3_ext_instp" : {
              "pattern" : "MDooHHGirW",
              "type" : "ENDS_WITH"
            }
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "AjaeXkyzkK",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qkvpfqDcgk",
            "type" : "ENDS_WITH"
          },
          "application_profile" : {
            "pattern" : "neBMbQNEOH",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "xufUOOvIfz",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "kIvfZooRWB",
            "type" : "NOT_CONTAINS"
          },
          "application_epg" : {
            "pattern" : "ldewRRWlkc",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "hkneBQWpMr",
```

```
        "type" : "ENDS_WITH"
      },
      "vrf" : {
        "pattern" : "YkXWMbCaJh",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "NrVZSGxArs",
        "type" : "NOT_CONTAINS"
      },
      "vrf" : {
        "pattern" : "xrIXXoVyBi",
        "type" : "NOT_BEGINS_WITH"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "ohsVNQnpSY",
        "type" : "NOT_BEGINS_WITH"
      },
      "bd" : {
        "pattern" : "banfrkRcTE",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "zWkxqyNscv",
        "type" : "EXACT"
      },
      "bd" : {
        "pattern" : "OoLkzLjxFo",
        "type" : "CONTAINS"
      }
    }
  }, {
    "l2_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "VhHlTwkHjH",
        "type" : "ENDS_WITH"
      },
      "l2_ext_out" : {
```

```
            "pattern" : "qKwjNEGLYi",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "QrcLExecLJ",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "yWUMxMSXef",
            "type" : "EXACT"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qXREuCPDmq",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "rmHqxBfnlE",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "unxTvsQall",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "mwZTPzgrOf",
            "type" : "ENDS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "cabcnwvZJD",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "allheaBgWD",
            "type" : "EXACT"
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```

```
          "l3_ext_out" : {
            "pattern" : "dRWLeBIwry",
            "type" : "ENDS_WITH"
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          "l3_ext_instp" : {
            "pattern" : "kUYzDQZziO",
            "type" : "CONTAINS"
          }
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "fQmpRIcrBG",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "lrhnFkKQNz",
          "type" : "EXACT"
        },
        "l3_ext_instp" : {
          "pattern" : "gbsxyYzQfY",
          "type" : "CONTAINS"
        }
      }
    } ]
  }, {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "wxycrwJcmt",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ZpqCfXSnvG",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
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          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
```

```
          "pattern" : "sInqvqSKEh",
          "type" : "NOT_BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "PwCNTPgHqm",
          "type" : "BEGINS_WITH"
        },
        "application_epg" : {
          "pattern" : "GjHNyuuBup",
          "type" : "EXACT"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "AKhEADbtpp",
          "type" : "EXACT"
        },
        "application_profile" : {
          "pattern" : "DwDHhlgOac",
          "type" : "CONTAINS"
        },
        "application_epg" : {
          "pattern" : "iXKDDUXNlF",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "cAkOHNxISO",
          "type" : "NOT_BEGINS_WITH"
        },
        "vrf" : {
          "pattern" : "qrkxgUytkU",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "vzJMKgZoQU",
          "type" : "NOT_BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "jykOfmBpzS",
          "type" : "CONTAINS"
        }
```

```
          }
        }, {
          "bd_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "EWicEwvsiB",
              "type" : "NOT_CONTAINS"
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            "bd" : {
              "pattern" : "jbgJyKUpgR",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l2_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "euknkzghAF",
              "type" : "NOT_CONTAINS"
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            "l2_ext_out" : {
              "pattern" : "UIjhhbPZPb",
              "type" : "NOT_BEGINS_WITH"
            }
          }
        }, {
          "l3_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "qDKvaVbYiZ",
              "type" : "NOT_CONTAINS"
            },
            "l3_ext_out" : {
              "pattern" : "hHOLnHEaDP",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l2_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "sJEBQeUbLo",
              "type" : "ENDS_WITH"
            },
            "l2_ext_out" : {
              "pattern" : "kUTgLDvHth",
              "type" : "ENDS_WITH"
            },
            "l2_ext_instp" : {
              "pattern" : "lcFdfzqEpE",
              "type" : "EXACT"
```

```
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "RhAGFACjBR",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "nZfQlMfXcM",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "onIdtGvjGA",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "aJRgVRkAbo",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "ToNexNMtVL",
            "type" : "ENDS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "KuZYjXWebo",
            "type" : "CONTAINS"
          }
        }
      } ]
    } ],
    "selector_type" : "OST_EPG"
  },
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
2daf4abc-31cf-4ca4-8f11-60281af6762b"
    }, {
      "rel" : "getObjectSelector",
      "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
2daf4abc-31cf-4ca4-8f11-60281af6762b"
    }, {
      "rel" : "getObjectSelectors",
```

```
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
    e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
    selectors?queryParams={queryParams}"
      }, {
        "rel" : "generateObjectSelectorPreviewResults",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
    e3e5d6e426a1/model/aci-policy/compliance-requirement/object-
    selectors/preview?queryParams={queryParams}"
      }, {
        "rel" : "deleteObjectSelector",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
    e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors/e665caf5-
    2daf4abc-31cf-4ca4-8f11-60281af6762b"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 24. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/object-selectors/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the object selector.

Response Fields

Path	Type	Description
value.data.uuid	String	Unique identifier of the object selector resource
value.data.name	String	Name of the object selector.
value.data.description	String	Description of the object selector.
value.data.selector_type	String	Type of the selector used.
value.data.excludes	Array	Pattern for the objects to be excluded.
value.data.includes[].matches[].tenant_match.object_attribute	String	String value of the object attribute.
value.data.includes[].matches[].tenant_match.tenant.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].tenant_match.tenant.type	String	Operator for the matching pattern.

Path	Type	Description
`value.data.includes[].matches[].application_profile_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_profile_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_profile_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_profile_match.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_profile_match.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_profile_match.application_profile.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_epgmatch.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_epgmatch.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.application_profile.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].application_epgmatch.application_profile.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_epgmatch.application_profile.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].application_epgmatch.application_epg.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].application_epgmatch.application_epg.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].vrf_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].vrf_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].vrf_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].vrf_match.vrf.pattern`	String	The pattern matched by the operator.

Path	Type	Description
value.data.includes[].matches[].vrf_match.vrf.type	String	Operator for the matching pattern.
value.data.includes[].matches[].bd_match.object_attribute	String	String value of the object attribute.
value.data.includes[].matches[].bd_match.tenant.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].bd_match.tenant.type	String	Operator for the matching pattern.
value.data.includes[].matches[].bd_match.bd.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].bd_match.bd.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l2_ext_out_match.object_attribute	String	String value of the object attribute.
value.data.includes[].matches[].l2_ext_out_match.tenant.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].l2_ext_out_match.tenant.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].l2_ext_out_match.l2_ext_out.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l2_ext_out.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].l2_ext_out.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l3_ext_out_match.object_attribute	String	String value of the object attribute.
value.data.includes[].matches[].l3_ext_out_match.tenant.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].l3_ext_out_match.tenant.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.pattern	String	The pattern matched by the operator.
value.data.includes[].matches[].l3_ext_out_match.l3_ext_out.type	String	Operator for the matching pattern.
value.data.includes[].matches[].l3_ext_out.pattern	String	The pattern matched by the operator.

Path	Type	Description
`value.data.includes[].matches[].l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.

Path	Type	Description
`value.data.includes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].tenant_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].tenant_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].tenant_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].application_profile_match.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].application_profile_match.application_profile.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].application_profile_match.application_profile.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].application_profile_match.application_profile.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.tenant.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.tenant.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_profile.object_attribute`	`String`	String value of the object attribute.
`value.data.excludes[].matches[].application_epgmatch.application_profile.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.application_profile.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].application_epgmatch.application_epg.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].application_epgmatch.application_epg.type`	`String`	Operator for the matching pattern.

Path	Type	Description
`value.data.excludes[].matches[].vrf_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].vrf_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].vrf_match.vrf.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].vrf_match.vrf.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].bd_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].bd_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].bd_match.bd.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].bd_match.bd.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out_match.l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_out_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out_match.tenant.type`	String	Operator for the matching pattern.

Path	Type	Description
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.tenant.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l2_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l2_ext_instp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.object_attribute`	String	String value of the object attribute.
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.pattern`	String	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.tenant.type`	String	Operator for the matching pattern.

Path	Type	Description
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_out.type`	`String`	Operator for the matching pattern.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.pattern`	`String`	The pattern matched by the operator.
`value.data.excludes[].matches[].l3_ext_instp_match.l3_ext_instp.type`	`String`	Operator for the matching pattern.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Delete Object Selector

A `DELETE` request deletes an object selector if an object selector with the specified ID is present.

Example Request

```
DELETE /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/object-selectors/e665caf5-aa527bb7-ebbf-413f-8559-
4c7394a8fffb HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 480

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Object Selector successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveObjectSelector",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/object-selectors"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 25. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/object-selectors/{uuid}

Parameter	Description
id	Unique identifier of the ACI fabric
uuid	Unique identifier of the traffic selector.

Response Fields

Path	Type	Description
value.data	String	Information message indicating whether the action was successful.
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.
success	Boolean	Boolean value indicating whether the action completed successfully.
value.namespaces.default	String	Used namespace.

Path	Type	Description
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_da` `ta`	`Boolean`	Boolean value indicating whether more data is available to be displayed.

Get Configuration Attributes Types

A `GET` request returns a record of the configuration attribute types.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements/config-attribute-types?selector_type=OST_BD
HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2100

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "attribute_permitted_values" : [ {
        "parameter" : "CCP_BD_TYPE",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "Regular", "Fc" ]
      }, {
        "parameter" : "CCP_L2_UNKNOWN_UNICAST",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "Flood", "Hardware Proxy" ]
      }, {
        "parameter" : "CCP_L3_UNKNOWN_MULTICAST_FLOODING",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "Optimized Flood", "Flood" ]
      }, {
        "parameter" : "CCP_BD_MULTI_DESTINATION_FLOODING",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
```

```
        "permitted_values" : [ "drop", "encap-flood", "bd-flood" ]
      }, {
        "parameter" : "CCP_PIM",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "Enabled", "Disabled" ]
      }, {
        "parameter" : "CCP_ARP_FLOODING",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "No", "Yes" ]
      }, {
        "parameter" : "CCP_LIMIT_IP_LEARNING_TO_SUBNET",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "No", "Yes" ]
      }, {
        "parameter" : "CCP_UNICAST_ROUTING",
        "permitted_operators" : [ "EQUAL_TO", "NOT_EQUAL_TO" ],
        "permitted_values" : [ "No", "Yes" ]
      }, {
        "parameter" : "CCP_SUBNET",
        "permitted_operators" : [ "ALL", "NONE", "AT_LEAST_ONE" ],
        "permitted_values" : [ "shared", "private", "public" ]
      } ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/config-attribute-
types?selector_type=OST_BD"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 26. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/config-attribute-types

Parameter	Description
id	Unique identifier of the ACI fabric.

Response Fields

Path	Type	Description
value.data.attribute_permitted_values[]parameter	String	Name of the permitted attribute.

Path	Type	Description
`value.data.attribute_permitted_values[]permitted_operators[]`	`Array`	List of permitted operators for a given parameter.
`value.data.attribute_permitted_values[]permitted_values[]`	`Array`	List of permitted values for a given parameter.
`success`	`Boolean`	Boolean value indicating whether the action completed successfully.
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get Naming Configuration Attributes Types

A `GET` request returns a record of the naming configuration attribute types.

Example Request

```
GET /api/v1/assured-networks/418ea34c-0497-49bf-ab06-e3e5d6e426a1/model/aci-
policy/compliance-requirement/requirements/naming-attribute-types?selector_type=OST_BD
HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 708

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "attribute_permitted_values" : [ {
        "parameter" : "CCP_NAME",
        "permitted_operators" : [ "NOT_BEGINS_WITH", "EXACT", "ENDS_WITH",
"NOT_ENDS_WITH", "NOT_CONTAINS", "CONTAINS", "REGEX", "BEGINS_WITH" ]
      } ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-networks/418ea34c-0497-49bf-ab06-
e3e5d6e426a1/model/aci-policy/compliance-requirement/requirements/naming-attribute-
types?selector_type=OST_BD"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 27. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/naming-attribute-types

Parameter	Description
id	Unique identifier of the ACI fabric

Response Fields

Path	Type	Description
value.data.attribute_permitted _values[].parameter	String	String value containing parameter type.
value.data.attribute_permitted _values[].permitted_operators	Array	List of possible operators for the parameter.
success	Boolean	Boolean value indicating whether the action completed successfully.

Path	Type	Description
`value.namespaces.default`	`String`	Used namespace.
`value.data_summary.total_count`	`Number`	Number of items.
`value.data_summary.has_more_data`	`Boolean`	Boolean value indicating whether more data is available to be displayed.
`value.data_summary.links[]`	`Array`	An array of links relevant to this request.
`value.data_summary.links[].rel`	`String`	A keyword indicating the type of link in the "href" field.
`value.data_summary.links[].href`	`String`	A link to the resource identified by the "rel" keyword.

Get Object Selector Preview

A `GET` request returns a preview of the objects that are included or excluded by an object selector type.

Example Request

```
POST /api/v1/assured-networks/DEFAULT_FABRIC_UUID/model/aci-policy/compliance-
requirement/object-selectors/preview?preview_type=OST_VRF HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 477


{
  "name" : "mIuoGsPhXe",
  "description" :
"dLwVVhcqsfxAtFZRusCzhrXbakAGQumWpQQkcYsdbkbIXfnIpeTVMjYrsrAJxdBqkpthHgOmOwTnkZkvplSIZ
xxUBJuxKQaMVkMC",
  "includes" : [ {
    "matches" : [ {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "",
          "type" : "CONTAINS"
        },
        "vrf" : {
          "pattern" : "RV-vrf",
          "type" : "CONTAINS"
        }
      }
    } ]
  } ],
  "selector_type" : "OST_VRF"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 525

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "name" : "RV-vrf",
      "identifier" : "uni/tn-coke/ctx-RV-vrf"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/api/v1/assured-
networks/DEFAULT_FABRIC_UUID/model/aci-policy/compliance-requirement/object-
selectors/preview?preview_type=OST_VRF"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 28. /api/v1/assured-networks/{id}/model/aci-policy/compliance-requirement/object-selectors/preview

Parameter	Description
id	Unique identifier of the ACI fabric

Response Fields

Path	Type	Description
value.data[].name	String	Description of the APIC object.
value.data[].identifier	String	Identifier of the APIC object.
success	Boolean	Boolean value indicating whether the action completed successfully.
value.namespaces.default	String	Used namespace.
value.data_summary.total_count	Number	Number of items.
value.data_summary.has_more_data	Boolean	Boolean value indicating whether more data is available to be displayed.

Path	Type	Description
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.
value.data_summary.links[].href	String	A link to the resource identified by the "rel" keyword.

Path	Type	Description
value.data_summary.links[]	Array	An array of links relevant to this request.
value.data_summary.links[].rel	String	A keyword indicating the type of link in the "href" field.

Common Workflows

> ⛔ This document describes the features, operation, and syntax of the Cisco Network Assurance Engine (NAE) REST API as of the current release when written. The features, operation, and syntax of the API are subject to change in future releases, and Cisco cannot guarantee backwards compatibility with prior releases.

Smart Events Workflow

In this workflow example, we fetch the details of a smart event from a specific epoch in our ACI fabric using the Cisco NAE REST API. The summary steps to accomplish this result are as follows:

- Log in to the REST API
- Specify (create) an ACI fabric for analysis
- Start an online analysis on the fabric
- Get a list of the available epochs
- Get a specific epoch (or the latest epoch)
- Get a filtered smart event summary for the epoch
- Get details about a specific smart event

This example assumes that an ACI fabric is installed and operational, has a functioning APIC cluster, and has an available APIC administrator account.

To complete the workflow, perform the following steps:

1. Authenticate and open an API session as described in the Login Example. This step returns a session token that must be included in the subsequent steps.

   ```
   GET /api/v1/whoami
   POST /api/v1/login
   ```

2. Specify the ACI fabric to be analyzed, as demonstrated in Create a fabric. You must specify the hostname or hostnames of an existing fabric, along with the APIC administrator credentials. You may also specify some parameters of the analysis, such as the polling interval. This operation returns the unique fabric ID.

   ```
   POST /api/v1/config-services/assured-networks/aci-fabric
   ```

3. Using the unique fabric ID, begin an online analysis of the fabric, as demonstrated in Start Online Analysis. Data is collected and analyzed at regular intervals (epochs) that you specified in the previous step.

```
POST /api/v1/config-services/assured-networks/aci-fabric/{FABRIC-ID}/start-analysis
```

4. After a period of time, request a list of the available epochs, as demonstrated in Get Epochs of an ACI Fabric.

```
GET /api/v1/event-services/epochs?$fabric_id={FABRIC-ID}
```

5. Depending on when an event of interest has occurred, request the records of a specific epoch by its unique epoch ID or of the latest epoch.

```
GET /api/v1/event-services/epochs?$epoch_id={EPOCH-ID}
or
GET /api/v1/event-services/epochs?$page=0&$size=1&$sort=-analysis_start_time
```

6. For the chosen epoch, request a summary of the smart events. As shown in Get An Epoch, several request parameters are available to restrict the summary to include only those smart events of interest. The example below returns only critical and major system events for the epoch.

```
GET /api/v1/event-services/smart-events?$epoch_id={EPOCH-
ID}&category=SYSTEM&severity=EVENT_SEVERITY_CRITICAL,EVENT_SEVERITY_MAJOR
```

7. Using the unique event ID of a specific smart event in the summary, request its detailed record, as demonstrated in Get Smart Event Detail.

```
GET /api/v1/event-services/smart-events/detail?$event_id={EVENT-ID}
```

Pagination Workflow

This workflow example demonstrates how to fetch the records of a specific epoch that holds multiple pages of event records. We can then use the Pagination Links in the response structure to fetch the next page and the last page, and we can modify a link to fetch a specific page.

1. Request the records of a specific epoch by its unique epoch ID.

```
GET /api/v1/event-services/epochs?$epoch_id={EPOCH-ID}
```

2. In the response structure, examine the links in `value.data_summary.links`. In the example below, the "total_page_count" indicates that there are 20 pages of records found for this epoch. This response contains the first page, which is page 0. The structure contains direct links for you to request the first page, the next page, or the last page.

```
"data_summary" : {
  "links" : [ {
    "rel" : "first",
    "href" : "https://localhost/api/v1/event-services/epochs?$page=0&$size=1"
  }, {
    "rel" : "self",
    "href" : "https://localhost/api/v1/event-services/epochs?$page=0&$size=1"
  }, {
    "rel" : "next",
    "href" : "https://localhost/api/v1/event-services/epochs?$page=1&$size=1"
  }, {
    "rel" : "last",
    "href" : "https://localhost/api/v1/event-services/epochs?$page=19&$size=1"
  } ],
  "total_count" : 20,
  "has_more_data" : true,
  "page_size" : 1,
  "current_page_number" : 0,
  "total_page_count" : 20
}
```

3. To view the next page of records, send a GET request to the link contained in the "href" field associated with "rel":"next". The response structure of the each subsequent page will in turn contain links to the previous, next, and last pages.

```
GET /api/v1/event-services/epochs?$page=1&$size=1
```

4. To view the last page of records, send a GET request to the link contained in the "href" field associated with "rel":"last":

```
GET /api/v1/event-services/epochs?$page=19&$size=1
```

5. To view the a specific page of records, such as page 5, modify a link by setting the $page URL parameter to the desired page number (note that the pages are numbered from 0). Send a GET request to the resulting link, as in this example for page 5:

```
GET /api/v1/event-services/epochs?$page=5&$size=1
```

Password Reset Workflow

This workflow example demonstrates how to recover from a lost user password. This is a two-step procedure in which the user obtains a one-time token from the Cisco NAE appliance and then submits the token along with a new password.

ℹ️ This procedure is for resetting a password when the current password has been forgotten. For a normal password change by a user, use the Change User Password API.

1. To initiate the password recovery, send a Forgot Password request with the unique ID of the user in the URL:

```
POST /api/v1/config-services/users/{USER-ID}/forgot-password
```

2. In the `value.data_summary.links` field of the response structure, locate the "href" field associated with "rel":"resetPassword". This field contains a Reset Password URL that includes a one-time token for resetting the password, as shown in this example:

```
{
  "rel" : "resetPassword",
  "href" : "https://localhost/api/v1/config-services/users/3e00b524-8e2c-4233-a32f-
120da7d6e540/reset-password"
}
```

3. Send a POST request to the URL with a message body containing the new password, as shown in this example:

```
POST /api/v1/config-services/users/{TOKEN}/reset-password
{
  "new_password" : "xjZXZBYaiCsRaOc",
  "confirm_password" : "xjZXZBYaiCsRaOc"
}
```

ℹ️ The Forgot Password API also generates an email with a GUI link for resetting the password. The link in the email contains the one-time token as a URL parameter. Because an email is generated, SMTP must be configured and enabled in the appliance. For information about configuring SMTP, see *Cisco Network Assurance Engine Getting Started Guide*.

Status and Error Codes

HTTP Status Codes

For any REST API request, the response from the Cisco NAE REST API server contains an HTTP status code that indicates whether the request was successful, along with other information related to the request. The following table lists supported HTTP status codes.

HTTP Status Code	HTTP method	Description
101	Web Socket request	The server has accepted a protocol upgrade request to open a websocket connection to the Cisco NAE REST API server.
200	GET/PUT/PATCH/DELETE	The request was completed successfully. Additional details about the request are contained in the response payload, as explained in Response Payload Structure.
201	POST	The request was completed successfully and a resource has been created. The Location header in the response contains the URL for the resource.
202	GET/POST/PUT/DELETE	A request for a long running operation has been accepted and the operation is being completed asynchronously. This exchange is used infrequently in GET operations and is more commonly used in POST/PUT/DELETE. The body of the HTTP response contains additional information for tracking the progress of the request.
304	GET/POST/PUT/DELETE	The requested content has not been modified since a previous request.
400	POST/PUT/DELETE	A write operation is rejected due to validation errors detected by the server.
401	GET/POST/PUT/DELETE	The requested operation is rejected because it requires authentication that was not provided by the user.

HTTP Status Code	HTTP method	Description
403	GET/POST/PUT/DELETE	The requested operation is rejected because the user does not have the necessary permissions to access the resource.
404	GET/PUT/DELETE	The requested operation is rejected because the specified resource does not exist.
405	GET/POST/PUT/DELETE	The requested operation is rejected because the specified resource does not support that operation.
409	POST/PUT/DELETE	The requested operation is rejected due to a conflict, such as an attempt to create a resource that already exists.
415	POST/PUT/DELETE	The requested operation is rejected because the specified resource does not support the uploaded media type of the request.
429	GET/POST/PUT/DELETE	The requested operation is rejected because the client has sent too many requests in a given time period.
500	GET/POST/PUT/DELETE	The requested operation is rejected due to an internal server error. The response payload may contain additional information about the error. This condition may require assistance from your Cisco representative.
502	GET/POST/PUT/DELETE	An invalid response was received from the server.
503	GET/POST/PUT/DELETE	The server is currently unable to handle the request due to a temporary overloading or maintenance of the server.
504	GET/POST/PUT/DELETE	The requested operation timed out while waiting for a response from the server.

Cisco NAE Status and Error Codes

The response structure returned by an API query may contain one or more status or error codes in

the `messages` field. The following tables show some of the more common code categories and codes.

System Codes

Code	Description
5000	The requested resource {0} does not exist on this server
5001	The request failed with the following error: {0}. Contact your administrator
5002	The requested page size {0} is greater than system supported maximum limit. Only maximum of {1} values will be returned
5003	Invalid value specified for request param {0}
5004	Invalid HTTP method {0} for request
5005	The request made to the server is not valid
5006	The input provided to the REST API method is not valid.
5007	Unknown query param(s) {0} specified
5008	{0} must not be greater than {1}
5009	{0} cannot be in the future
5010	{0} param must be specified along with {1}
5011	Invalid value specified for param {0}. Valid values are: {1}
5012	{0} param is incompatible with {1} param. Specify only one of them.
5013	No epochs found in the given time range.
5015	{0} object is created.
5016	{0} request is accepted, but not complete.
5017	Param(s) {0} must be specified in request url
5018	The requested resource: {0} does not exist on this server given the provided parameters
5019	The param EPG_PAIR requires one comma to separate the EPG DNs
5020	{field} is a required field and cannot be null
5021	The requested resource: {0} does not exist on this server because there are no epochs in the database.
5022	{0} must not be an empty string.
5023	Specified value {0} for input {1} is not valid
5024	The number of {0} returned by the request {1} is larger than the maximum {2} supported by the server. Apply some filters to reduce the returned result set and try again
5025	{0} is an unsupported filter or sort parameter
5026	{validatedValue} is not a valid input param
5027	Installation has already been completed
5030	The requested resource is already being modified
5032	The requested resource already exists

Code	Description
5033	Invalid Parameter Syntax
5034	Could not download the file. {0}
5035	Datastore storage path db.storage.path must be set correctly in properties file
5036	Could not persist {0} for {1}
5037	Information not found. Unsupported char(s) included in search parameter.
5038	One or more IP addresses or host names are invalid.
5039	Requested Operation is allowed only for Super Admins
5040	Requested Operation is allowed only for users from Local domain
5041	No data found with the provided request params.
5042	Missing required query param(s) {0}
5050	Request payload contained an unrecognized field : {0}
5051	The input JSON syntax was not valid. Error message:{0}
5053	Required request body is missing

Authentication Codes

Code	Description
7000	The One Time Password (OTP) password was either not specified or has expired and is no longer valid
7001	The session has either expired or is not valid
7002	Invalid username and/or password
7003	The user is already authenticated to this session
7004	The user is not authorized to make this request
7005	User is not authenticated. Use One Time Password found in the response header {0} within the next {1} minutes to login
7006	The password was not changed because the old and the new passwords did not match.
7007	CSRF token verification failed.
7008	X-NAE-CSRF-TOKEN header is missing.
7009	Cannot authenticate the credentials against the given authentication domain.
7010	Account is locked. Please contact your administrator
7011	Username and Password are mandatory fields. Provide valid credentials
7012	The password is expired. You must change your password before proceeding

User Management Codes

Code	Description
9000	The user with username {0} already exists

Code	Description
9002	The user with username {0} cannot change the password of the user {1}
9003	The user with username {0} cannot create user. Only a Super Admin can create users
9004	The length of the password must be between {min} and {max} characters
9005	The current password is incorrect.
9006	The new password does not match the confirm password
9007	The password for user {0} has been successfully changed
9010	Token has expired or is invalid.
9011	Password recovery is already in progress for {0}. Wait for {1} minutes before reattempting recovery if you have lost your password recovery token.
9012	Change password request failed due to {0}
9013	The email address already exists. It might be assigned to an inactive or deleted user.
9014	The user with username {0} cannot change the email address of the user {1}
9015	User {0} cannot delete user. Only Super admin can delete users.
9016	User {0} does not exist
9017	Super admin can not be deleted
9018	{0} operation failed as either user is not ready for update or account is locked.
9019	Username must have 4 to 30 alphanumeric characters with optional single dots placed in between words
9020	Maximum {0} users are allowed to be added.
9021	Invalid email address
9022	value must be greater than {value} day
9023	Invalid password. Allowed characters are {0}. The length of the password must be between {1} and {2} characters

Epoch Codes

Code	Description
11000	Invalid epoch {0}. Epoch must be a long value or $latest
11001	Invalid epoch {0} for specified fabric {1}

Session Codes

Code	Description
25003	Cannot delete the current logged in session

Related Documentation

The following companion guides provide documentation for Cisco NAE:

- *Cisco Network Assurance Engine Release Notes*
- *Cisco Network Assurance Engine Getting Started Guide*
- *Cisco Network Assurance Engine Fundamentals Guide*
- *Cisco Network Assurance Engine Smart Events Reference Guide*

A complete and interactive REST API reference is embedded in the Cisco NAE at this URL:

`https://<Your_NAE_Appliance>/api/v1/swagger-ui.html`

For information about the REST API reference, see About The REST API Reference (Swagger).

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to cisconae-docfeedback@cisco.com. We appreciate your feedback.