Cisco Network Assurance Engine REST API User Guide, Release 5.1(1)

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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.

New and Changed Information

The following table provides an overview of the significant changes to the organization and features in this guide up to this current release. The table does not provide an exhaustive list of all changes made to the guide or of the new features up to this release.

Table 1. New Features and Changed Behavior in Cisco Network Assurance Engine Release 5.1(1)

Feature or Change	Description	Where Documented
MSO Fabric	Perform Detect, Create, Read, Update, and Delete operations on fabrics of type MSO.	Fabric APIs
NX-OS Fabric	Perform Create, Read, Update, and Delete operations on fabrics of type NX-OS.	Fabric APIs
Smart Event Life Cycle State	Read the life cycle of an event associated with the epoch.	Get Smart Event Life Cycle State
Smart Event Metadata	Associate event owner, acknowledgement status, description, and tags to a Smart Event.	Create Smart Event Owner Assignment

Table 2. New Features and Changed Behavior in Cisco Network Assurance Engine Release 5.0(1)

Feature or Change	Description	Where Documented
API command prefix	REST API commands must have the prefix `/nae/api/v1`. In previous releases, the `/nae/` segment was optional.	Overview
Pre-change Analysis Operations		Pre-Change Analysis Operations
Create or edit a Requirement with a file		Compliance Requirement APIs

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 `/nae/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 `/nae/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 `/nae/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
/nae/api/v1/whoami	None	X-NAE-LOGIN-OTP	The OTP is returned in the header only if the user is not already authenticated.
/nae/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.
/nae/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 /nae/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: 20cdfa90-b8d5-417f-a0c9-9e6df0bf14c9
Set-Cookie: SESSION=3fdc95fa-05e6-4201-b509-eee3d8b5e227; Path=/; HttpOnly
Content-Length: 683

{
  "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" : "https://localhost/nae/api/v1/whoami"
      }, {
        "rel" : "login",
        "href" : "https://localhost/nae/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 /nae/api/v1/login HTTP/1.1
Content-Type: application/json
Accept: application/json
Accept: application/json
X-NAE-LOGIN-OTP: 2e6c3093-7833-4402-9603-d2db22e24819
Host: localhost:8080
Content-Length: 122
Cookie: SESSION=e530567f-3877-43b7-860c-7874cee16a2d

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

Response

```
HTTP/1.1 200 OK
X-NAE-CSRF-TOKEN: 1de58095-a715-4cbf-985d-e3d9c75bed1c
Content-Type: application/json;charset=UTF-8
Set-Cookie: SESSION=59453d93-fb50-44a3-9a4d-0facb517328a; Path=/; HttpOnly
Content-Length: 534

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "username" : "NbUserRepositoryTestSIlXjafXaV",
      "uuid" : "7660d714-3ab9-4abb-a704-1be84b35eebc",
      "domain" : "Local",
      "password_status" : "ACTIVE",
      "remaining_days" : 0
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/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 /nae/api/v1/logout HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: b0dd1c5c-76a9-4dec-b993-66398249fa47
Cookie: SESSION=018a1ce7-2b95-4538-a506-d6aed9d2f71c
```

Response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 325

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

Whoami request sent by authenticated client (optional)

Request

```
GET /nae/api/v1/whoami HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
Cookie: SESSION=b113549e-5c45-472f-9bbb-380085043e76
```

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" : "be626550-c5d6-4d0b-a74a-40798d806c21",
      "username" : "NbUserRepositoryTestNXKqdKnDfX"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/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 3. 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 4. 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  /nae/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 /nae/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:6443/nae/api/v1/epochs?$page=0&$size=2"
        },
        {
          "rel": "prev",
          "href": "http://localhost:6443/nae/api/v1/epochs?$page=2&$size=2"
        },
        {
          "rel": "next",
          "href": "http://localhost:6443/nae/api/v1/epochs?$page=4&$size=2"
        },
        {
          "rel": "last",
          "href": "http://localhost:6443/nae/api/v1/epochs?$page=14&$size=2"
        },
        {
          "rel": "self",
          "href":
"http://localhost:6443/nae/api/v1/epochs?$page=3&$size=2&$view=summary"
        }
      ]
    },
    "data" : [
      {
        "epoch": 6317663284849816765,
        "links": [
```

```
          {
            "rel": "self",
            "href": "http://localhost:6443/nae/api/v1/epochs/6317663284849816765"
          }
        ],
        "updated_at": 1470959143974
      },
      {
        "epoch": 6317663284849816465,
        "links": [
          {
            "rel": "self",
            "href": "http://localhost:6443/nae/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>/nae/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, MSO, and NX-OS fabric management within Cisco NAE. This distinction is made by the `assured_fabric_type` field, which can have a value of either ACI_FABRIC, MSO, or DCNM_UNMANAGED.

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 one of two modes: online analysis and offline analysis. For more information about assured entities, see the *Cisco Network Assurance Engine Fundamentals Guide*.

Because some APIs require different fields for each fabric type, separate ACI, MSO, and NX-OS examples are shown for Create Fabric, Get Fabric, and Put Fabric. Other APIs are the same for either fabric type.

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

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

Create Fabric

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

Example NX-OS Request

```
POST /nae/api/v1/config-services/assurance-group/fabric HTTP/1.1
Content-Type: application/json
Accept: application/json
```

```
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 1528

{
  "tags" : [ "KNUodMraEAKZzFlKosUuoBlYWqNdOi", "pGWfWcSuhMUtaHpphXrYRjXAKEMHdB",
"swZpZbWELcIzKQynKecNbbNGfHchov" ],
  "display_name" : "ykNgJvSjzg",
  "interval" : 483,
  "analysis_timeout_in_secs" : 1057,
  "iterations" : 5,
  "dcnm_password" : "pPPZmFJbam",
  "lan_password" : "RWhvsJENxM",
  "unique_name" : "pkebpyzRXm",
  "assured_network_type" : "DCNM_UNMANAGED",
  "operational_mode" : "ONLINE",
  "description" : "CYzBerRklT",
  "dcnm_ip_address" : "YsHXXtYucF",
  "dcnm_username" : "ABAyCJjdEZ",
  "lan_username" : "eKsXQDbhlI",
  "dcnm_site_name" : "DyhXRKRgCH",
  "assured_fabric_type" : "DCNM_UNMANAGED",
  "leaf_list" : [ {
    "leaf_password" : "mesmOBnmIy",
    "leaf_name" : "wyKRQLkvYT",
    "leaf_ip_address" : "zqYTmTSQgD",
    "leaf_username" : "JViOZwKJii"
  }, {
    "leaf_password" : "JVXrmgtDfr",
    "leaf_name" : "bXXzpsGDEl",
    "leaf_ip_address" : "cjFrSVDGrr",
    "leaf_username" : "dsWncMwBll"
  }, {
    "leaf_password" : "neLNTdoCNi",
    "leaf_name" : "NYorAVHSid",
    "leaf_ip_address" : "EpRhfnqHkj",
    "leaf_username" : "BInbRnMDaG"
  }, {
    "leaf_password" : "IXvYBYNpSr",
    "leaf_name" : "XbOCGRWErW",
    "leaf_ip_address" : "rNbEYyyxwN",
    "leaf_username" : "wszQjjCcxO"
  }, {
    "leaf_password" : "elAQGjPjLE",
    "leaf_name" : "ElaAwgvNSl",
    "leaf_ip_address" : "uBFDJDCgOw",
    "leaf_username" : "urvNkbTCMw"
  }, {
    "leaf_password" : "rrtaIGpIOm",
    "leaf_name" : "ebwNMQHIBd",
    "leaf_ip_address" : "DeZuhqNiqA",
```

```
      "leaf_username" : "howhYxSOmO"
  } ]
}
```

Example NX-OS Response

```
HTTP/1.1 201 Created
Location: http://localhost:8080/nae/api/v1/config-services/assurance-
group/fabric/2c0fc24b-40e0ef1a-1da5-4092-95b3-e809556d7a2c
Content-Type: application/json;charset=UTF-8
Content-Length: 2159

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-40e0ef1a-1da5-4092-95b3-e809556d7a2c",
      "tags" : [ "KNUodMraEAKZzFlKosUuoBlYWqNdOi", "pGWfWcSuhMUtaHpphXrYRjXAKEMHdB",
"swZpZbWELcIzKQynKecNbbNGfHchov" ],
      "display_name" : "ykNgJvSjzg",
      "interval" : 483,
      "analysis_timeout_in_secs" : 1057,
      "status" : "STOPPED",
      "iterations" : 5,
      "unique_name" : "pkebpyzRXm",
      "assured_network_type" : "DCNM_UNMANAGED",
      "operational_mode" : "ONLINE",
      "description" : "CYzBerRklT",
      "active" : false,
      "dcnm_ip_address" : "YsHXXtYucF",
      "dcnm_username" : "ABAyCJjdEZ",
      "lan_username" : "eKsXQDbhlI",
      "dcnm_site_name" : "DyhXRKRgCH",
      "assured_fabric_type" : "DCNM_UNMANAGED",
      "leaf_list" : [ {
        "uuid" : "2c0fc24b-4561a537-b4ee-4242-a939-0f2e7e50c40f",
        "leaf_name" : "wyKRQLkvYT",
        "leaf_ip_address" : "zqYTmTSQgD",
        "leaf_username" : "JViOZwKJii"
      }, {
        "uuid" : "2c0fc24b-673d41f0-d435-4461-a68b-a323920455a0",
        "leaf_name" : "bXXzpsGDEl",
        "leaf_ip_address" : "cjFrSVDGrr",
        "leaf_username" : "dsWncMwBll"
      }, {
        "uuid" : "2c0fc24b-86dbe9ce-c3ea-4b88-bd2e-fd5419898278",
        "leaf_name" : "NYorAVHSid",
```

```
        "leaf_ip_address" : "EpRhfnqHkj",
        "leaf_username" : "BInbRnMDaG"
      }, {
        "uuid" : "2c0fc24b-f359e08e-8336-4d0a-bc4e-87d609a68201",
        "leaf_name" : "XbOCGRWErW",
        "leaf_ip_address" : "rNbEYyyxwN",
        "leaf_username" : "wszQjjCcxO"
      }, {
        "uuid" : "2c0fc24b-8b382be9-092d-40e4-99c4-a58e73ed2707",
        "leaf_name" : "ElaAwgvNSl",
        "leaf_ip_address" : "uBFDJDCgOw",
        "leaf_username" : "urvNkbTCMw"
      }, {
        "uuid" : "2c0fc24b-ab3b9046-7848-4fd3-bd7e-4767a3462f4f",
        "leaf_name" : "ebwNMQHIBd",
        "leaf_ip_address" : "DeZuhqNiqA",
        "leaf_username" : "howhYxSOmO"
      } ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

NX-OS Request Fields

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.

Path	Type	Description
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.
dcnm_ip_address	String	The IP address of the DCNM appliance.
dcnm_username	String	The login id for the admin user for DCNM.
dcnm_password	String	The password for the admin user for DCNM.
lan_username	String	The login id for the admin user that overrides DCNM credentials.
lan_password	String	The password for the admin user that overrides DCNM credentials.
dcnm_site_name	String	The name for the site where all the switches are grouped.
assured_fabric_type	String	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).

Path	Type	Description
`leaf_list.[]`	Array	(Optional) A list of switches that are meant to be overridden because their switch credentials do not match the default credentials provided in the LAN username and password.
`operational_mode`	String	Valid values are ONLINE and OFFLINE. Indicates whether the NX-OS fabric is in offline analysis or is in a regularly managed mode.

Example ACI Request

```
POST /nae/api/v1/config-services/assurance-group/fabric HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 676

{
  "tags" : [ "zEBvFSsVDNqljCiboFzPaiYPFAWGhV", "xfuKKwDBbXtxWITOfIPyuSXNtSMsAO" ],
  "display_name" : "rHFKfmYjRT",
  "interval" : 478,
  "analysis_timeout_in_secs" : 1262,
  "iterations" : 5,
  "password" : "QMEzuHyCra",
  "unique_name" : "pzIklaCxfN",
  "assured_network_type" : "ACI_FABRIC",
  "operational_mode" : "ONLINE",
  "description" : "hNZQDptMbh",
  "apic_hostnames" : [ "GEuiVWRLtMqyrcoSqlCMPyEzSzJIac.cisco.com",
"mgriUsZVUjNcTwyGFFYwAadtfgLoUg.cisco.com",
"KvopxEwFkTJwOPDvurfhlYTTXcapoL.cisco.com",
"XiBPpwxxkPczlNHwmNeGuentmvJiRT.cisco.com", "ZdaKiHAbOsjsuLRhEbBEfXZkrdpSSR.cisco.com"
],
  "username" : "YLXioDSyBA",
  "assured_fabric_type" : "ACI_FABRIC"
}
```

Example ACI Response

```
HTTP/1.1 201 Created
Location: http://localhost:8080/nae/api/v1/config-services/assurance-
group/fabric/2c0fc24b-a32077f5-f44a-4ab9-bf51-eec5fb31d8a7
Content-Type: application/json;charset=UTF-8
Content-Length: 1140

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-a32077f5-f44a-4ab9-bf51-eec5fb31d8a7",
      "tags" : [ "zEBvFSsVDNqljCiboFzPaiYPFAWGhV", "xfuKKwDBbXtxWITOfIPyuSXNtSMsAO" ],
      "display_name" : "rHFKfmYjRT",
      "interval" : 478,
      "analysis_timeout_in_secs" : 1262,
      "status" : "STOPPED",
      "iterations" : 5,
      "config_status" : "CREATED",
      "aci_assurance_group_status" : "CREATED",
      "unique_name" : "pzIklaCxfN",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "description" : "hNZQDptMbh",
      "active" : false,
      "apic_hostnames" : [ "GEuiVWRLtMqyrcoSqlCMPyEzSzJIac.cisco.com",
"mgriUsZVUjNcTwyGFFYwAadtfgLoUg.cisco.com",
"KvopxEwFkTJwOPDvurfhlYTTXcapoL.cisco.com",
"XiBPpwxxkPczlNHwmNeGuentmvJiRT.cisco.com", "ZdaKiHAbOsjsuLRhEbBEfXZkrdpSSR.cisco.com"
],
      "username" : "YLXioDSyBA",
      "assured_fabric_type" : "ACI_FABRIC"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

ACI Request Fields

Path	Type	Description
apic_hostnames	Array	An array of strings that are the ACI Controller hostnames.

Path	Type	Description
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.
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_fabric_type	String	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).

Path	Type	Description
assured_network_type	String	Indicates the type of Assurance Group. Valid values are ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).
operational_mode	String	Indicates whether the ACI fabric is in offline analysis or is in a regularly managed mode. Valid values are ONLINE and OFFLINE.

Example MSO Request

```
POST /nae/api/v1/config-services/assurance-group/fabric HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 590

{
  "tags" : [ "dTMnVMEikJhimwiRFqtubiGOUxDVLT", "FxLtpGnwzHIxEUvbtSzBFQxZfTyRRi",
"SAgumhogdExIExHyNSJtMNdbSYzVHb" ],
  "display_name" : "DFpykmLCwp",
  "interval" : 366,
  "analysis_timeout_in_secs" : 1023,
  "iterations" : 5,
  "password" : "VrelCDXBGa",
  "unique_name" : "pZbhHYWAse",
  "assured_network_type" : "MSO",
  "operational_mode" : "OFFLINE",
  "description" : "VuzNnUGoOZ",
  "username" : "rGLtWMjTNT",
  "assured_fabric_type" : "MSO",
  "mso_ip_addresses" : [ "121.150.157.144", "202.100.144.55" ],
  "associated_fabric_uuids" : [ "03433690-0aff-4e75-bcc6-18bea2593788" ]
}
```

Example MSO Response

```
HTTP/1.1 201 Created
Location: http://localhost:8080/nae/api/v1/config-services/assurance-
group/fabric/2c0fc24b-83cdcce3-2cdd-484f-82f0-376c2d482cc8
Content-Type: application/json;charset=UTF-8
Content-Length: 897

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-83cdcce3-2cdd-484f-82f0-376c2d482cc8",
      "tags" : [ "dTMnVMEikJhimwiRFqtubiGOUxDVLT", "FxLtpGnwzHIxEUvbtSzBFQxZfTyRRi",
"SAgumhogdExIExHyNSJtMNdbSYzVHb" ],
      "display_name" : "DFpykmLCwp",
      "interval" : 366,
      "analysis_timeout_in_secs" : 1023,
      "status" : "STOPPED",
      "iterations" : 5,
      "unique_name" : "pZbhHYWAse",
      "assured_network_type" : "MSO",
      "operational_mode" : "OFFLINE",
      "description" : "VuzNnUGoOZ",
      "active" : false,
      "username" : "rGLtWMjTNT",
      "assured_fabric_type" : "MSO",
      "mso_ip_addresses" : [ "121.150.157.144", "202.100.144.55" ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

MSO Request Fields

Path	Type	Description
username	String	The login id of the admin user for the MSO host.
password	String	The password of the admin user for the MSO 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.
`associated_fabric_uuids`	`Array`	Array of strings that has ACI FabricUuid's to associate to the MSO fabric.
`assured_fabric_type`	`String`	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).

Path	Type	Description
assured_network_type	String	Indicates the type of Assurance Group. Valid values are ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).
operational_mode	String	Indicates whether the ACI/MSO fabric is in offline analysis or is in a regularly managed mode. Valid values are ONLINE and OFFLINE.

Response Fields

See Response Fields for Get Fabric.

Get Fabric

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

Example NX-OS Request

```
GET /nae/api/v1/config-services/assurance-group/fabric/6918d99a-fd60-4f9c-b7a4-
b8335b478323 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example NX-OS Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2484

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "6918d99a-fd60-4f9c-b7a4-b8335b478323",
      "tags" : [ "grokFyqpbS", "JLCPnPuHYJ", "YLzisotQjR", "opIzyeOsis" ],
      "display_name" : "XpdwqWpVKq",
      "interval" : 464,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "ZanwgAuAzx",
```

```
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/6918d99a-fd60-4f9c-b7a4-b8335b478323"
      }, {
        "rel" : "Get Assurance Entities for AG: 6918d99a-fd60-4f9c-b7a4-b8335b478323",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=6918d99a-fd60-4f9c-b7a4-b8335b478323"
      } ],
      "unique_name" : "oUGVJvhZRx",
      "assured_network_type" : "DCNM_UNMANAGED",
      "operational_mode" : "ONLINE",
      "description" : "mrZhCFJNRN",
      "active" : false,
      "dcnm_ip_address" : "EzKiSZseKT",
      "dcnm_username" : "twJIXCEvaj",
      "lan_username" : "bdGRohzNou",
      "dcnm_site_name" : "ZmSqsHoVdZ",
      "assured_fabric_type" : "DCNM_UNMANAGED",
      "leaf_list" : [ {
        "uuid" : "6a76005d-3573-4fc9-81d1-fe4590db4342",
        "leaf_name" : "ToECVOcoAE",
        "leaf_ip_address" : "IVnGGFSyom",
        "leaf_username" : "kMTnONWBJp"
      }, {
        "uuid" : "ce0bd98f-a8a9-4a9c-a4fd-0e3aeeae89b5",
        "leaf_name" : "DCejiPSMdE",
        "leaf_ip_address" : "aFUDCSguKp",
        "leaf_username" : "yXAKzChcyj"
      }, {
        "uuid" : "55cc222e-7436-413a-a630-ccfb6bd0f2a9",
        "leaf_name" : "zwzVkpSeEA",
        "leaf_ip_address" : "yhgVLwLqjs",
        "leaf_username" : "JehrgxVyId"
      }, {
        "uuid" : "4ac1742e-bc42-44de-bf9f-bfbf7977d488",
        "leaf_name" : "cLHDUqonBc",
        "leaf_ip_address" : "zdihSSbVYO",
        "leaf_username" : "DCCcqVOgRT"
      }, {
        "uuid" : "fc83eb86-d5e6-43ec-ad14-6c4f0c6db562",
        "leaf_name" : "JWHampaIcK",
        "leaf_ip_address" : "XMXeMUnkEA",
        "leaf_username" : "CWOkOvUZCE"
      }, {
        "uuid" : "f87a79b0-6380-42be-b2cf-bcf3b6296383",
        "leaf_name" : "QguZqebwrq",
        "leaf_ip_address" : "XcOiujmYir",
        "leaf_username" : "dwSyrgifda"
      } ]
```

```
      },
      "data_summary" : {
        "links" : [ ],
        "total_count" : 1,
        "has_more_data" : false
      }
    }
  }
}
```

NX-OS Path Parameters

Table 5. /nae/api/v1/config-services/assurance-group/fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the NX-OS fabric to be returned.

NX-OS 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.

Path	Type	Description
`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.
`value.data.operational_mode`	`String`	Indicates whether the NX-OS 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 abandoned.
`value.data.assured_fabric_type`	`String`	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).
`value.data.dcnm_ip_address`	`String`	The IP address of the DCNM appliance.
`value.data.dcnm_username`	`String`	The login id for the admin user for DCNM.
`value.data.lan_username`	`String`	The login id for the admin user that overrides DCNM credentials.
`value.data.dcnm_site_name`	`String`	The name for the site where all the switches are grouped.
`value.data.leaf_list`	`Array`	(Optional) A list of switches that are meant to be overridden because their switch credentials do not match the default credentials provided in the LAN username and password.

Example ACI Request

```
GET /nae/api/v1/config-services/assurance-group/fabric/2f5f66d6-e34b-41fb-956d-
aec688e67003 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example ACI Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1429

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2f5f66d6-e34b-41fb-956d-aec688e67003",
      "tags" : [ "cACdxSCUAT", "toZNhmhDMd", "AibeaIqqhA", "twvcPbOHtW" ],
      "display_name" : "PdUYspyPKG",
      "interval" : 465,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "XPnAeAKmvc",
      "status" : "STOPPED",
      "config_status" : "CREATED",
      "aci_assurance_group_status" : "CREATED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/2f5f66d6-e34b-41fb-956d-aec688e67003"
      }, {
        "rel" : "Get Assurance Entities for AG: 2f5f66d6-e34b-41fb-956d-aec688e67003",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=2f5f66d6-e34b-41fb-956d-aec688e67003"
      } ],
      "unique_name" : "cLtwyxIdcF",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "description" : "YTbwoszKtj",
      "active" : false,
      "apic_hostnames" : [ "ndblRwvoRV.cisco.com", "RcAaBKIBIR.cisco.com",
"qvATtjjrdN.cisco.com", "ojVtTIdjrE.cisco.com" ],
      "username" : "kWWXvMSvFU",
      "assured_fabric_type" : "ACI_FABRIC"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

ACI Path Parameters

Table 6. /nae/api/v1/config-services/assurance-group/fabric/{id}

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

ACI 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.

Path	Type	Description
value.data.apic_hostnames	Array	A array of strings that are the ACI Controller hostnames.
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.aci_assurance_group_status	String	Indicates whether the ACI fabric is CREATED or ASSOCIATED to MSO fabric
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 abandoned.
value.data.assured_fabric_type	String	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).
value.data.config_status	String	Indicates the status of the fabric

Example MSO Request

```
GET /nae/api/v1/config-services/assurance-group/fabric/ad8d77fa-9921-4172-ad98-
9fa2aadcd718 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example MSO Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1032

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "ad8d77fa-9921-4172-ad98-9fa2aadcd718",
      "tags" : [ "uUuUDRMkqe", "OAjVlUocRJ", "rvXFcxbEWn", "vXIxislCsc" ],
      "display_name" : "cpvpyEWVsX",
      "interval" : 498,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "JMDWFinwyh",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/ad8d77fa-9921-4172-ad98-9fa2aadcd718"
      } ],
      "unique_name" : "yqNyBbdIMk",
      "assured_network_type" : "MSO",
      "operational_mode" : "ONLINE",
      "description" : "BdGHDDIgiV",
      "active" : false,
      "username" : "tncKNNAKjp",
      "assured_fabric_type" : "MSO",
      "mso_ip_addresses" : [ "119.64.139.237", "99.171.99.185" ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

MSO Path Parameters

Table 7. /nae/api/v1/config-services/assurance-group/fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the MSO fabric to be returned.

MSO 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.
value.data.operational_mode	String	Indicates whether the MSO 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 abandoned.

Path	Type	Description
`value.data.assured_fabric_type`	`String`	Indicates whether the fabric is of type ACI_FABRIC (ACI), MSO (MSO), or DCNM_UNMANAGED (NX-OS).
`value.data.mso_ip_addresses`	`Array`	A array of strings that are the MSO Controller hostnames.
`value.data.username`	`String`	The login id of the admin user for the MSO host.

Get Fabrics Associated to MSO

A `GET` request returns a record of all ACI fabrics associated to an MSO fabric if the specified MSO ID is present.

Example Request

```
GET /nae/api/v1/config-services/assurance-group/mso/d2b02817-3158-45d3-852d-
b839f088fc64/associated-fabrics 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: 2728

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "4fd050d8-e5e2-44d1-b8b9-8646203da314",
      "display_name" : "TSUUjGOlkK",
      "interval" : 419,
      "analysis_timeout_in_secs" : 0,
      "application_id" : "DnuGEVdukB",
      "status" : "STOPPED",
      "config_status" : "CREATED",
      "aci_assurance_group_status" : "ASSOCIATED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
```

```
group/fabric/4fd050d8-e5e2-44d1-b8b9-8646203da314"
      }, {
        "rel" : "Get Assurance Entities for AG: 4fd050d8-e5e2-44d1-b8b9-8646203da314",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=4fd050d8-e5e2-44d1-b8b9-8646203da314"
      } ],
      "unique_name" : "TSUUjGOlkK",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "active" : false,
      "apic_hostnames" : [ "XfAuzrdQal.cisco.com", "lCGptxrruj.cisco.com",
"asPOTqbBVy.cisco.com" ],
      "username" : "DyefzwqvKn",
      "assured_fabric_type" : "ACI_FABRIC"
    }, {
      "uuid" : "57fc3a5a-1eac-42d4-94a3-a99aa9f4a58a",
      "display_name" : "drEuRZkDfb",
      "interval" : 397,
      "analysis_timeout_in_secs" : 0,
      "application_id" : "vKEAqmskzw",
      "status" : "STOPPED",
      "config_status" : "CREATED",
      "aci_assurance_group_status" : "ASSOCIATED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/57fc3a5a-1eac-42d4-94a3-a99aa9f4a58a"
      }, {
        "rel" : "Get Assurance Entities for AG: 57fc3a5a-1eac-42d4-94a3-a99aa9f4a58a",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=57fc3a5a-1eac-42d4-94a3-a99aa9f4a58a"
      } ],
      "unique_name" : "drEuRZkDfb",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "active" : false,
      "apic_hostnames" : [ "FYAfTtmWzr.cisco.com", "zeRSEsnpVv.cisco.com",
"scrCWSleOX.cisco.com", "OUxwNDXnEt.cisco.com", "FabEDpejQZ.cisco.com",
"dpClgiBsoH.cisco.com", "cPlXEmaPRz.cisco.com" ],
      "username" : "cGjwiYLkvw",
      "assured_fabric_type" : "ACI_FABRIC"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/mso/d2b02817-3158-45d3-852d-b839f088fc64/associated-fabrics?$page=0&$size=50"
      } ],
      "total_count" : 2,
      "has_more_data" : false,
      "page_size" : 50,
```

```
        "current_page_number" : 0,
        "total_page_count" : 1
      }
    }
}
```

Get All Fabrics

A GET request returns the records of all fabrics. This will return all ACI, MSO, and NX-OS fabrics.

Example Request

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

Example NX-OS Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 4989

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "056277a7-eef4-48b8-92c4-a8a886cc1a2e",
      "tags" : [ "oNowwozAPT", "WOCHJxaAei", "rCXVsXcSbu", "VgLuhwmxjo", "hMAuQmgatw"
],
      "display_name" : "lLiAjaSZvs",
      "interval" : 490,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "jXFZLhhtMe",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/056277a7-eef4-48b8-92c4-a8a886cc1a2e"
      }, {
        "rel" : "Get Assurance Entities for AG: 056277a7-eef4-48b8-92c4-a8a886cc1a2e",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=056277a7-eef4-48b8-92c4-a8a886cc1a2e"
      } ],
```

```
      "unique_name" : "YhAEThVoSn",
      "assured_network_type" : "DCNM_UNMANAGED",
      "operational_mode" : "ONLINE",
      "description" : "cKDhBgncmC",
      "active" : false,
      "dcnm_ip_address" : "jpZlmPZsGc",
      "dcnm_username" : "lhjbhbmKKd",
      "lan_username" : "fcvLWBEwas",
      "dcnm_site_name" : "drkXjYMkxO",
      "assured_fabric_type" : "DCNM_UNMANAGED",
      "leaf_list" : [ {
        "uuid" : "d6ad6ed5-9aff-4c5b-b8bb-0c971ba9b9cc",
        "leaf_name" : "pyEjUfJSpo",
        "leaf_ip_address" : "JfzZKgGyaM",
        "leaf_username" : "abhxmzsfxt"
      }, {
        "uuid" : "521a316a-56a1-431f-ab99-2c9e83fcfd3f",
        "leaf_name" : "NKWWCWaZnS",
        "leaf_ip_address" : "OtssnbuTGV",
        "leaf_username" : "oJSuUWhsTF"
      }, {
        "uuid" : "2cee67cb-03f1-4079-945d-e9e6258813b2",
        "leaf_name" : "eobgtBBxPL",
        "leaf_ip_address" : "MNHaevMdIZ",
        "leaf_username" : "ekYgMXJvWK"
      }, {
        "uuid" : "0a64266f-3c01-446d-96c2-ca666fa53697",
        "leaf_name" : "XWQStDLaxp",
        "leaf_ip_address" : "UDmwMxNYdF",
        "leaf_username" : "lnaxGPHoAd"
      }, {
        "uuid" : "77746098-8cfa-4993-8033-08b4f0e0edc3",
        "leaf_name" : "wVocaFojxS",
        "leaf_ip_address" : "xoypzfnmBg",
        "leaf_username" : "tCkepXAkBJ"
      }, {
        "uuid" : "f3bc6c2a-8c10-419f-9547-1b90bdefa04f",
        "leaf_name" : "hoymUoBqkw",
        "leaf_ip_address" : "KCtYDDRgmc",
        "leaf_username" : "JcOvpdMrAX"
      }, {
        "uuid" : "b6d15c76-c90d-4953-a620-3f7e1c52f6b8",
        "leaf_name" : "rZVxMQUCeX",
        "leaf_ip_address" : "IqSOPoJGhx",
        "leaf_username" : "fCfwvQpfIY"
      } ]
    }, {
      "uuid" : "84bbbe1d-5b01-4cc8-a7e2-ff0c2837dd50",
      "tags" : [ "WXTkwyPIJN", "mJbTWjxstL", "DigPKxlWZE", "eTqpzwzVGz" ],
      "display_name" : "IRFXJapMvn",
      "interval" : 433,
```

```
      "analysis_timeout_in_secs" : 600,
      "application_id" : "jqsqGyfkIW",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/84bbbe1d-5b01-4cc8-a7e2-ff0c2837dd50"
      }, {
        "rel" : "Get Assurance Entities for AG: 84bbbe1d-5b01-4cc8-a7e2-ff0c2837dd50",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=84bbbe1d-5b01-4cc8-a7e2-ff0c2837dd50"
      } ],
      "unique_name" : "kSoTRUVnMp",
      "assured_network_type" : "DCNM_UNMANAGED",
      "operational_mode" : "ONLINE",
      "description" : "ApMijCtuyp",
      "active" : false,
      "dcnm_ip_address" : "gMJtStFGiU",
      "dcnm_username" : "MeMAjKtGHd",
      "lan_username" : "YKXIImmSae",
      "dcnm_site_name" : "oflZoraPCz",
      "assured_fabric_type" : "DCNM_UNMANAGED",
      "leaf_list" : [ {
        "uuid" : "8f5a510a-5bc3-4b61-892b-bea39e12b21b",
        "leaf_name" : "laKFkzUUib",
        "leaf_ip_address" : "GLzjPtiUMg",
        "leaf_username" : "PpTFzNqPhb"
      }, {
        "uuid" : "4bd02ac0-4cd8-41ff-9a63-ce4ee29e9b4d",
        "leaf_name" : "PtgmWjfIlh",
        "leaf_ip_address" : "jprIwTHQtr",
        "leaf_username" : "TSFPshyfpS"
      }, {
        "uuid" : "48e9b32b-32b0-4c43-af86-5ec286a64b62",
        "leaf_name" : "JSTNGkvJIG",
        "leaf_ip_address" : "TIKOOeeXbs",
        "leaf_username" : "egTMmOKlju"
      }, {
        "uuid" : "6197cc41-993a-4178-b86a-92b99cbb1aa8",
        "leaf_name" : "QfLgAIvRAp",
        "leaf_ip_address" : "bUZIUittzC",
        "leaf_username" : "FXyiMOlDVA"
      }, {
        "uuid" : "3abf81d2-409c-40f8-8993-00d7dddb3c48",
        "leaf_name" : "ybfuTtHmvH",
        "leaf_ip_address" : "myFqOVHVBM",
        "leaf_username" : "DoCknICRYK"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
```

```
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric?$page=0&$size=200&$sort=UNSORTED"
    } ],
    "total_count" : 2,
    "has_more_data" : false,
    "page_size" : 1000,
    "current_page_number" : 0,
    "total_page_count" : 1
  }
 }
}
```

Example Request

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

Example MSO Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2552

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "eb907584-ba9b-47fb-9728-5bbf13afc704",
      "tags" : [ "ALyjoIFYBp", "bbiKuhDipO", "EOpBfZfJXg", "NRcVOsLirX" ],
      "display_name" : "LbjpjwcRlS",
      "interval" : 452,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "haIYfSSaEp",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/eb907584-ba9b-47fb-9728-5bbf13afc704"
      }, {
        "rel" : "Get Assurance Entities for AG: eb907584-ba9b-47fb-9728-5bbf13afc704",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
```

```
networks/assurance-entity?ag_uuid=eb907584-ba9b-47fb-9728-5bbf13afc704"
      } ],
      "unique_name" : "QrOfWbZTvv",
      "assured_network_type" : "MSO",
      "operational_mode" : "ONLINE",
      "description" : "HDYanzMyZc",
      "active" : false,
      "username" : "TuPOsxnyuU",
      "assured_fabric_type" : "MSO",
      "mso_ip_addresses" : [ "66.173.249.84", "110.156.237.90" ]
    }, {
      "uuid" : "1d214235-1a91-4a8d-83cc-e767923f87dc",
      "tags" : [ "hyfaCUGeJs", "SuSYOOTgSH", "sXRhcwHUnu", "YkdXkYpGTN" ],
      "display_name" : "viavRoyUry",
      "interval" : 470,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "MClMyefnir",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/1d214235-1a91-4a8d-83cc-e767923f87dc"
      }, {
        "rel" : "Get Assurance Entities for AG: 1d214235-1a91-4a8d-83cc-e767923f87dc",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=1d214235-1a91-4a8d-83cc-e767923f87dc"
      } ],
      "unique_name" : "eoPJORysyV",
      "assured_network_type" : "MSO",
      "operational_mode" : "ONLINE",
      "description" : "cyjLOHIcee",
      "active" : false,
      "username" : "NxqYcLKvLQ",
      "assured_fabric_type" : "MSO",
      "mso_ip_addresses" : [ "59.200.203.55", "11.207.48.217" ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric?$page=0&$size=200&$sort=UNSORTED"
      } ],
      "total_count" : 2,
      "has_more_data" : false,
      "page_size" : 1000,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Response Fields

See Response Fields for Get Fabric.

Edit Fabric

A PUT request updates the attributes of a fabric if a fabric with the specified ID is present. The assured fabric type cannot be changed once an assurance entity has been created.

Example NX-OS Request

```
PUT /nae/api/v1/config-services/assurance-group/fabric/47ebbb35-2e83-4b0b-9b1b-
92f32054c3f1 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 206

{
  "interval" : 1200,
  "analysis_timeout_in_secs" : 1500,
  "dcnm_password" : "f6aemWNGxF",
  "assured_network_type" : "ACI_FABRIC",
  "description" : "fabric description",
  "lan_username" : "lanAdmin"
}
```

Example NX-OS Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2691

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "47ebbb35-2e83-4b0b-9b1b-92f32054c3f1",
      "tags" : [ "KcFfwTPatC", "RTAxenzXzX", "HABkiUxRAh", "BsenkYIipT", "sRpLEwwBud"
],
      "display_name" : "coUQcbNMSZ",
      "interval" : 1200,
      "analysis_timeout_in_secs" : 1500,
      "application_id" : "XcmAvuhNgS",
      "status" : "STOPPED",
```

```
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/47ebbb35-2e83-4b0b-9b1b-92f32054c3f1"
    }, {
      "rel" : "Get Assurance Entities for AG: 47ebbb35-2e83-4b0b-9b1b-92f32054c3f1",
      "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=47ebbb35-2e83-4b0b-9b1b-92f32054c3f1"
    } ],
    "unique_name" : "IoKqGngQVo",
    "assured_network_type" : "DCNM_UNMANAGED",
    "operational_mode" : "ONLINE",
    "description" : "fabric description",
    "active" : false,
    "dcnm_ip_address" : "HEPbxZZHAH",
    "dcnm_username" : "nuhZMXPIKW",
    "lan_username" : "lanAdmin",
    "dcnm_site_name" : "esPCZNUGtE",
    "assured_fabric_type" : "DCNM_UNMANAGED",
    "leaf_list" : [ {
      "uuid" : "e61a1840-420c-4f45-9021-5f61dfb20f2b",
      "leaf_name" : "VRLMztHSSw",
      "leaf_ip_address" : "gPNJYgWdMH",
      "leaf_username" : "uIogxmRidX"
    }, {
      "uuid" : "362ac517-a04e-46ef-9ce7-4df5e182aa7a",
      "leaf_name" : "YkxHKoKIIH",
      "leaf_ip_address" : "iZXyEGXiSi",
      "leaf_username" : "xPccwWMYFd"
    }, {
      "uuid" : "65976529-95c0-4b88-be4e-81a689bad714",
      "leaf_name" : "ACEvVuzOqL",
      "leaf_ip_address" : "nhXdvPcUFC",
      "leaf_username" : "clyIRLpgVq"
    }, {
      "uuid" : "a7059ad4-8dc6-467a-9224-67d6f723fb77",
      "leaf_name" : "BHDCpWUogX",
      "leaf_ip_address" : "BFiQDkmEHU",
      "leaf_username" : "UhBebmnnMs"
    }, {
      "uuid" : "48aba967-7adc-48c3-a4e2-e11ded4b244d",
      "leaf_name" : "yZmVjYrnyx",
      "leaf_ip_address" : "ehbONhwdBa",
      "leaf_username" : "cPeSUyDbTG"
    }, {
      "uuid" : "0b3693e5-6246-4376-9dab-96daacc8673e",
      "leaf_name" : "ChzyjGeSFm",
      "leaf_ip_address" : "KHZjGeTCIe",
      "leaf_username" : "XIvbGLKMNS"
    }, {
      "uuid" : "8a34e8cb-71d7-4a41-bd3c-880b4732fb0e",
```

```
        "leaf_name" : "jjCiEaPnmu",
        "leaf_ip_address" : "LlzJKmjDdi",
        "leaf_username" : "ItgUvtTnRc"
      } ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

NX-OS Path Parameters

Table 8. /nae/api/v1/config-services/assurance-group/fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the NX-OS fabric to be updated.

Example ACI Request

```
PUT /nae/api/v1/config-services/assurance-group/fabric/3c05c0e2-5b61-4ed8-8e5b-
72bd08056c94 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" : "MHURNZbHAD",
  "assured_network_type" : "ACI_FABRIC",
  "description" : "fabric description",
  "apic_hostnames" : [ "apic1@cisco.com", "apic2@cisco.com", "apic3@cisco.com" ],
  "username" : "apicAdmin"
}
```

Example ACI Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1385

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "3c05c0e2-5b61-4ed8-8e5b-72bd08056c94",
      "tags" : [ "AliBdbniJl", "zjfpbQdVOz", "tCdTCeHllS" ],
      "display_name" : "KmgsROPuxh",
      "interval" : 1200,
      "analysis_timeout_in_secs" : 1500,
      "application_id" : "TzbTcyVIQh",
      "status" : "STOPPED",
      "config_status" : "CREATED",
      "aci_assurance_group_status" : "CREATED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/3c05c0e2-5b61-4ed8-8e5b-72bd08056c94"
      }, {
        "rel" : "Get Assurance Entities for AG: 3c05c0e2-5b61-4ed8-8e5b-72bd08056c94",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=3c05c0e2-5b61-4ed8-8e5b-72bd08056c94"
      } ],
      "unique_name" : "UoWFBGKOie",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "description" : "fabric description",
      "active" : false,
      "apic_hostnames" : [ "apic1@cisco.com", "apic2@cisco.com", "apic3@cisco.com" ],
      "username" : "apicAdmin",
      "assured_fabric_type" : "ACI_FABRIC"
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

ACI Path Parameters

Table 9. /nae/api/v1/config-services/assurance-group/fabric/{id}

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

Example MSO Request

```
PUT /nae/api/v1/config-services/assurance-group/fabric/bd6e4cb9-051f-4733-9ec8-
5938ec401426 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 246

{
  "interval" : 1200,
  "analysis_timeout_in_secs" : 1500,
  "password" : "xDEECH5TFb",
  "assured_network_type" : "MSO",
  "description" : "mso description",
  "username" : "msoAdmin",
  "mso_ip_addresses" : [ "10.18.10.180", "10.18.10.190" ]
}
```

Example MSO Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1048

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "bd6e4cb9-051f-4733-9ec8-5938ec401426",
      "tags" : [ "RmYsLNDAgR", "ULZijaxdvz", "khHgfPPYlW", "MgfQyxnreD", "JpYReJfDNh"
],
      "display_name" : "hGzwvgNgWB",
      "interval" : 1200,
      "analysis_timeout_in_secs" : 1500,
      "application_id" : "CVXwTapqHJ",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/bd6e4cb9-051f-4733-9ec8-5938ec401426"
      } ],
      "unique_name" : "wqZuYMrbrR",
      "assured_network_type" : "MSO",
      "operational_mode" : "ONLINE",
      "description" : "mso description",
      "active" : false,
      "username" : "msoAdmin",
      "assured_fabric_type" : "MSO",
      "mso_ip_addresses" : [ "10.18.10.180", "10.18.10.190" ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

MSO Path Parameters

Table 10. /nae/api/v1/config-services/assurance-group/fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the MSO fabric to be updated.

Response Fields

See Response Fields for Get 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. Data is collected for the fabric and analyzed at regular intervals specified by the user. Epochs are generated for each analysis. Valid credentials must be specified for the fabric for a successful analysis.

Example Request

```
POST /nae/api/v1/config-services/assured-networks/aci-fabric/0d4e6435-6b1b-4998-9510-
1e73c47ad796/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 /nae/api/v1/config-services/assured-networks/aci-fabric/e92ac239-b225-448c-9171-
9d4379c73885/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 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 /nae/api/v1/config-services/assurance-group/fabric/2be097e4-75ca-4f2e-a9e7-
33ee5b68447b 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: 2683

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

```
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2be097e4-75ca-4f2e-a9e7-33ee5b68447b",
      "tags" : [ "hzTVFxfYuM", "RiPObSbtJg", "PVIehwVZlt", "GdMIsTcuAV", "trIuLGGZfX"
],
      "display_name" : "TlTvGNFopK",
      "interval" : 437,
      "analysis_timeout_in_secs" : 600,
      "application_id" : "kxrDMtYkdo",
      "status" : "STOPPED",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/assurance-
group/fabric/2be097e4-75ca-4f2e-a9e7-33ee5b68447b"
      }, {
        "rel" : "Get Assurance Entities for AG: 2be097e4-75ca-4f2e-a9e7-33ee5b68447b",
        "href" : "https://localhost/nae/api/v1/config-services/assured-
networks/assurance-entity?ag_uuid=2be097e4-75ca-4f2e-a9e7-33ee5b68447b"
      } ],
      "unique_name" : "bfCLQipPdj",
      "assured_network_type" : "DCNM_UNMANAGED",
      "operational_mode" : "ONLINE",
      "description" : "NRIYqqfmha",
      "active" : false,
      "dcnm_ip_address" : "jqLhCPTaMa",
      "dcnm_username" : "JKzVwJRTtI",
      "lan_username" : "HvAHPRIFrR",
      "dcnm_site_name" : "gtSRDjhNtR",
      "assured_fabric_type" : "DCNM_UNMANAGED",
      "leaf_list" : [ {
        "uuid" : "8edbe7d6-dcb4-44f4-a44d-70d35ca0cbb0",
        "leaf_name" : "fUrxmmwzIS",
        "leaf_ip_address" : "XDShaIgSYa",
        "leaf_username" : "dXTybqRbzx"
      }, {
        "uuid" : "b2e5c025-b4ad-41e1-9a19-c287c7464253",
        "leaf_name" : "eJxepTxxlz",
        "leaf_ip_address" : "IXgzWtXVDB",
        "leaf_username" : "WuEqqCyBBT"
      }, {
        "uuid" : "bc0d1dbc-eaa1-4ac1-94b1-c93fb2f89b50",
        "leaf_name" : "sFeAYxiiTK",
        "leaf_ip_address" : "nYytsKTVUB",
        "leaf_username" : "raOTUaWypJ"
      }, {
        "uuid" : "9ed1d860-ba02-4154-a93d-1fe117194f7a",
        "leaf_name" : "DsHXdeNain",
        "leaf_ip_address" : "NitunjErye",
        "leaf_username" : "IjrnmhfvIi"
      }, {
```

```
        "uuid" : "1ad37a8d-57ba-4e03-927e-787214cd9410",
        "leaf_name" : "SLzgWQFDlU",
        "leaf_ip_address" : "TTLzLpardV",
        "leaf_username" : "hLTbDuiZBh"
      }, {
        "uuid" : "2111abc0-aa19-4961-a4e2-7a638c1ea7df",
        "leaf_name" : "caKGmCeBKn",
        "leaf_ip_address" : "ZUhDrrtqBz",
        "leaf_username" : "nzwLqcmUmO"
      }, {
        "uuid" : "37cc39b7-1a82-4941-b177-41918db75034",
        "leaf_name" : "bubcfRFfwH",
        "leaf_ip_address" : "JJiNtPygIB",
        "leaf_username" : "xTfnQegTPj"
      } ]
    },
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 11. /nae/api/v1/config-services/assurance-group/fabric/{id}

Parameter	Description
id	The id path parameter represents the id of the NX-OS fabric to be deleted.

Response Fields

See Response Fields for Get 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 /nae/api/v1/event-services/epochs?$epoch_id=31960302-36af0701-329c-419c-9d56-
9eb708653b3c 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: 1941

{
  "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" : 264
      }, {
        "severity" : "major",
        "count" : 136
      }, {
        "severity" : "critical",
```

```
          "count" : 0
      } ],
      "status" : "FINISHED",
      "collection_time_rfc3339" : "2020-11-16T06:13:06Z",
      "analysis_start_time_rfc3339" : "2020-11-16T06:13:06Z",
      "appliance_version" : "5.1.1",
      "is_offline" : false,
      "event_info" : [ {
        "severity" : "major",
        "count" : 136
      }, {
        "severity" : "minor",
        "count" : 264
      } ],
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "import_state" : "GENERATED",
      "export_state" : "NOT_EXPORTED",
      "collector_data_status" : "ALL_PRESENT",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$epoch_id=31960302-36af0701-329c-419c-9d56-9eb708653b3c"
      } ],
      "collection_time_msecs" : 1605507186000,
      "analysis_completion_time_msecs" : 1605517186000,
      "analysis_completion_time_rfc3339" : "2020-11-16T08:59:46Z",
      "fabric_id" : "1825dcf0-79f8-421d-8c5b-f3432c87eccc",
      "epoch_id" : "31960302-36af0701-329c-419c-9d56-9eb708653b3c",
      "window_id" : 6888357336819714386,
      "processed" : true,
      "analysis_start_time_msecs" : 1605507186000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/epochs?$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.[].window_id`	`Number`	Unique epoch window 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.
`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.

Path	Type	Description
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
value.data.[].import_state	String	Provides import information of epoch. Possible values are: GENERATED and IMPORTED
value.data.[].export_state	String	Provides export information of epoch. Possible values are: NOT_EXPORTED, EXPORT_SUCCEEDED and EXPORT_FAILED
value.data.[].collector_data_status	String	Value of ALL_PRESENT indicates that the 'Export Data' feature is available for this epoch.
value.data.[].links	Array	Provides links to access further relevant information for this epoch.

Path	Type	Description
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 /nae/api/v1/event-services/epochs?$fabric_id=dedd4d11-1eb3-43e2-afb0-
a7ff4e029684&$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: 2153

{
  "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" : "2986-08-03T03:35:56Z",
      "analysis_start_time_rfc3339" : "2986-08-03T03:35:56Z",
      "appliance_version" : "5.1.1",
      "is_offline" : false,
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "import_state" : "GENERATED",
      "export_state" : "NOT_EXPORTED",
      "collector_data_status" : "ALL_PRESENT",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$epoch_id=58636193-7ee8dbbe-d72b-48fc-8431-4ab5cd3b3fdc"
      } ],
      "collection_time_msecs" : 32080419356000,
      "analysis_completion_time_msecs" : 32080429356000,
      "analysis_completion_time_rfc3339" : "2986-08-03T06:22:36Z",
      "fabric_id" : "dedd4d11-1eb3-43e2-afb0-a7ff4e029684",
      "epoch_id" : "58636193-7ee8dbbe-d72b-48fc-8431-4ab5cd3b3fdc",
      "window_id" : 6888357345568224916,
      "processed" : true,
      "analysis_start_time_msecs" : 32080419356000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "first",
        "href" : "https://localhost/nae/api/v1/event-services/epochs?$page=0&$size=1"
      }, {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/epochs?$page=0&$size=1"
      }, {
        "rel" : "next",
        "href" : "https://localhost/nae/api/v1/event-services/epochs?$page=1&$size=1"
      }, {
        "rel" : "last",
        "href" : "https://localhost/nae/api/v1/event-services/epochs?$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 comma-separated values 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 /nae/api/v1/event-
services/epochs?$from_collection_time_msecs=1607803503000&$to_collection_time_msecs=16
07803505000&$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: 1809

{
  "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" : "2020-12-12T20:05:03Z",
      "analysis_start_time_rfc3339" : "2020-12-12T20:05:03Z",
      "appliance_version" : "5.1.1",
      "is_offline" : false,
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "import_state" : "GENERATED",
      "export_state" : "NOT_EXPORTED",
      "collector_data_status" : "ALL_PRESENT",
```

```
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
 services/epochs?$epoch_id=72132018-dad29966-3bde-49a3-86b9-aeefac10f883"
      } ],
      "collection_time_msecs" : 1607803503000,
      "analysis_completion_time_msecs" : 1607813503000,
      "analysis_completion_time_rfc3339" : "2020-12-12T22:51:43Z",
      "fabric_id" : "aee46672-4e2f-4608-b174-9fbbe9a399cb",
      "epoch_id" : "72132018-dad29966-3bde-49a3-86b9-aeefac10f883",
      "window_id" : 6888357345205782510,
      "processed" : true,
      "analysis_start_time_msecs" : 1607803503000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
 services/epochs?$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 /nae/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: 2267

{
  "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" : "5476-11-16T11:01:29Z",
      "analysis_start_time_rfc3339" : "5476-11-16T11:01:29Z",
```

```
      "appliance_version" : "5.1.1",
      "is_offline" : false,
      "epoch_type" : "ONLINE",
      "leaf_count" : 0,
      "import_state" : "GENERATED",
      "export_state" : "NOT_EXPORTED",
      "collector_data_status" : "ALL_PRESENT",
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$epoch_id=75524953-eb17a059-1645-4921-b142-4baf792dfc8e"
      } ],
      "collection_time_msecs" : 110666343689000,
      "analysis_completion_time_msecs" : 110666353689000,
      "analysis_completion_time_rfc3339" : "5476-11-16T13:48:09Z",
      "fabric_id" : "7747de19-cb34-46ee-a9be-f7cd6a85362d",
      "epoch_id" : "75524953-eb17a059-1645-4921-b142-4baf792dfc8e",
      "window_id" : 6888357345130421357,
      "processed" : true,
      "analysis_start_time_msecs" : 110666343689000
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "first",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$page=0&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$page=0&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "next",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$page=1&$size=1&$sort=-analysis_start_time"
      }, {
        "rel" : "last",
        "href" : "https://localhost/nae/api/v1/event-
services/epochs?$page=145&$size=1&$sort=-analysis_start_time"
      } ],
      "total_count" : 146,
      "has_more_data" : true,
      "page_size" : 1,
      "current_page_number" : 0,
      "total_page_count" : 146
    }
  }
}
```

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.
`$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 Life Cycle State	User
Create Smart Event Owner Assignment	User
Update Smart Event Owner Assignment	User
Get Smart Event Life Cycle State	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 /nae/api/v1/event-services/smart-events?$epoch_id=804879af-a31fffa0-9e2a-46ae-
a2b3-f24c78f765f5 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: 4080

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "identifier" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5",
      "generating_appliance_version" : "5.1.1",
      "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",
        "object_type" : "CNAE:smartEvent",
        "event_code_major_version" : "1.0",
        "event_code_minor_version" : "1.0"
      },
      "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" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5",
          "meta_data" : {
            "username" : "admin",
            "comment" : "documenting",
            "state" : "IN_PROGRESS",
            "tags" : "test,doc",
            "history" : {
              "state_changed_timestamp" : 1603820641500,
              "owner_changed_timestamp" : 1603820641500
            },
            "object_type" : "CNAE:eventMetadata"
          },
          "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" : "983e4add-80f0-4ab7-b6eb-e08ea038f465",
      "display_name" : "gvwMOMJDSv",
      "interval" : 107,
      "analysis_timeout_in_secs" : 0,
      "application_id" : "yNbLaYJjTK",
      "status" : "STOPPED",
      "config_status" : "CREATED",
      "unique_name" : "gvwMOMJDSv",
      "assured_network_type" : "ACI_FABRIC",
      "operational_mode" : "ONLINE",
      "active" : false,
      "apic_hostnames" : [ "MolfbVtZJL.cisco.com", "ViUwuoLYiC.cisco.com",
"qKCEYHYxjw.cisco.com", "XdrrpNJaby.cisco.com", "jFynRjRmrN.cisco.com",
"OlermjuMbj.cisco.com" ],
      "username" : "NCESaTvshX",
      "assured_fabric_type" : "ACI_FABRIC"
    },
    "links" : [ ]
  } ],
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/event-services/smart-
events?$epoch_id=804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5&$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).

Parameter	Description
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.
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.

Path	Type	Description
`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[].meta_data`	`Object`	Meta data of the event, such as the owner, comment, tags, etc.
`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.
`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 /nae/api/v1/event-services/smart-events/detail?$event_id=804879af-a31fffa0-9e2a-
46ae-a2b3-f24c78f765f5-4ee045ac03b5eb0a191ef52d182c53f5 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: 5352

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "identifier" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5",
      "generating_appliance_version" : "5.1.1",
      "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",
        "object_type" : "CNAE:smartEvent",
        "event_code_major_version" : "1.0",
        "event_code_minor_version" : "1.0"
      },
      "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" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5",
          "meta_data" : {
            "username" : "admin",
            "comment" : "documenting",
            "state" : "IN_PROGRESS",
            "tags" : "test,doc",
            "history" : {
              "state_changed_timestamp" : 1603820641500,
              "owner_changed_timestamp" : 1603820641500
            },
            "object_type" : "CNAE:eventMetadata"
          },
          "custom_next_steps" : [ ],
          "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" : "983e4add-80f0-4ab7-b6eb-e08ea038f465",
        "display_name" : "gvwMOMJDSv",
        "interval" : 107,
        "analysis_timeout_in_secs" : 0,
        "application_id" : "yNbLaYJjTK",
        "status" : "STOPPED",
        "config_status" : "CREATED",
        "unique_name" : "gvwMOMJDSv",
        "assured_network_type" : "ACI_FABRIC",
        "operational_mode" : "ONLINE",
```

```
        "active" : false,
        "apic_hostnames" : [ "MolfbVtZJL.cisco.com", "ViUwuoLYiC.cisco.com",
  "qKCEYHYxjw.cisco.com", "XdrrpNJaby.cisco.com", "jFynRjRmrN.cisco.com",
  "OlermjuMbj.cisco.com" ],
        "username" : "NCESaTvshX",
        "assured_fabric_type" : "ACI_FABRIC"
      },
      "links" : [ ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/smart-
  events/detail?$event_id=804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
  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.
value.data[].sub_category	Object	Smart Event sub category information.
value.data[].severity	Object	Smart Event severity level.

Path	Type	Description
`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[].meta_data`	`Object`	Meta data of the event, such as the owner, comment, tags, etc.
`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.
`value.data[].custom_next_steps`	`Array`	Smart Event custom next steps.

Create Smart Event Owner Assignment

A `POST` request assigns the following metadata to be associated with a specific Smart Event for the user's purposes:

- Event owner: The user ID to whom the event is assigned.

- Operation Status: The event acknowledgement state.

  The state can be NEW, IN_PROGRESS, or CLOSED.

- Comment: Descriptive text to associate with the event.

- Tags: Tag or set of tags to associate with the event.

Example Request

```
POST /nae/api/v1/event-services/assured-networks/983e4add-80f0-4ab7-b6eb-
e08ea038f465/smart-events/804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5/owner HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 144

{
  "state" : "IN_PROGRESS",
  "domain" : null,
  "username" : "admin",
  "comment" : "documenting",
  "tags" : "test,doc",
  "history" : null
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 772

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "state" : "IN_PROGRESS",
      "domain" : "Local",
      "username" : "admin",
      "comment" : "documenting",
      "tags" : "test,doc",
      "history" : {
        "state_changed_timestamp" : 1603820641500,
        "owner_changed_timestamp" : 1603820641500
      }
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "http://localhost:8080/api/v1/event-services/assured-
networks/983e4add-80f0-4ab7-b6eb-e08ea038f465/smart-events/804879af-a31fffa0-9e2a-
46ae-a2b3-f24c78f765f5-4ee045ac03b5eb0a191ef52d182c53f5/owner"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 12. /nae/api/v1/event-services/assured-networks/{fabricId}/smart-events/{eventUuid}/owner

Parameter	Description
fabricId	The fabricId path parameter represents the id of the fabric.
eventUuid	The eventUuid path parameter represents the id of the event for which metadata needs to be configured.

Request Fields

Path	Type	Description
state	String	Event acknowledgement state. Valid values are NEW, IN_PROGRESS, CLOSED
username	String	Owner to assign the event to.
comment	String	Descriptive text to capture comments
tags	String	Set of tags to associate with the event

Response Fields

Path	Type	Description
value.data.username	String	Event owner name
value.data.state	String	Event acknowledgement state
value.data.comment	String	Descriptive comment associated with the event
value.data.tags	String	Tags associated with the event
value.data.history	Object	tracks the changes to owner assignment and state transition

Update Smart Event Owner Assignment

A PUT request updates the owner and other metadata associated with a specific Smart Event for the user's purposes.

Example Request

```
PUT /nae/api/v1/event-services/assured-networks/983e4add-80f0-4ab7-b6eb-
e08ea038f465/smart-events/804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5/owner HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 144

{
  "state" : "IN_PROGRESS",
  "domain" : null,
  "username" : "admin",
  "comment" : "documenting",
  "tags" : "test,doc",
  "history" : null
}
```

Example Response, Path Parameters, Request Fields, Response Fields

See the example response, parameters, and fields for .

Get Smart Event Life Cycle State

A `GET` request returns life cycle states associated with a smart event. Using request parameters, you can specify the event id to fetch its associated life cycle for the epoch.

Event life cycle goes through RAISING, RAISED, CLEARING and CLEARED states. An event can have multiple life cycles over the course of time. Each cycle begins with RAISING or RAISED state and ends with CLEARED state. This API lets you fetch the event's life cycle associated with the epoch. Optional $start_time and $end_time request params can be specified to fetch all life cycles of the event in the specified duration.

Example Request

```
GET /nae/api/v1/event-services/smart-events/lifecycle?$event_id=804879af-a31fffa0-
9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5&$start_time=0&$end_time=1603820641838 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: 2205

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "first_raised" : {
        "collection_time_msecs" : 1532127078000,
        "lifecycle_state" : "LIFECYCLE_STATE_RAISED",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      },
      "last_raised" : {
        "collection_time_msecs" : 1532127078000,
        "lifecycle_state" : "LIFECYCLE_STATE_RAISED",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
```

```
      },
      "num_epochs_between_first_last_raised" : 1,
      "final_clearing" : {
        "collection_time_msecs" : 1532127328000,
        "lifecycle_state" : "LIFECYCLE_STATE_CLEARING",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      },
      "final_cleared" : {
        "collection_time_msecs" : 1532127578000,
        "lifecycle_state" : "LIFECYCLE_STATE_CLEARED",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      },
      "epochs_in_range" : [ {
        "collection_time_msecs" : 1532127078000,
        "lifecycle_state" : "LIFECYCLE_STATE_RAISED",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      }, {
        "collection_time_msecs" : 1532127328000,
        "lifecycle_state" : "LIFECYCLE_STATE_CLEARING",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      }, {
        "collection_time_msecs" : 1532127578000,
        "lifecycle_state" : "LIFECYCLE_STATE_CLEARED",
        "event_uuid" : "804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/smart-
events/lifecycle?$event_id=804879af-a31fffa0-9e2a-46ae-a2b3-f24c78f765f5-
4ee045ac03b5eb0a191ef52d182c53f5&$start_time=0&$end_time=1603820641838"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Request parameters

Parameter	Description
$event_id	Smart Event UUID for which the lifecycle needs to be retrieved. This is a mandatory parameter.

Parameter	Description
`$start_time`	Time in milliseconds. Specify both start and end time params to retrieve all the lifecycles of the event in that duration.
`$end_time`	Time in milliseconds. Specify both start and end time params to retrieve all the lifecycles of the event in that duration.

Response fields

Path	Type	Description
`value.data[].num_epochs_between_first_last_raised`	Number	Number of epochs in the lifecycle in which the event is seen.
`value.data[].first_raising`	Object	Collection time of the epoch and state when the event is first seen in the life cycle. Only some endpoint events' lifecycle starts with RAISING state, and transitions to RAISED state. All other events' lifecycle starts with RAISED state.
`value.data[].first_raised`	Object	Collection time of the epoch and state when the event is first seen in this life cycle. An event's lifecycle begins with RAISED state.
`value.data[].last_raised`	Object	Collection time of the epoch and state when event is seen last time in this life cycle.
`value.data[].final_clearing`	Object	Collection time and state when event is not seen in this life cycle, this epoch follows an epoch in which event is seen last time.
`value.data[].final_cleared`	Object	Collection time and state when event is not seen for two consecutive epoch in this life cycle, this epoch follows an epoch in which event is in CLEARING state. An event's lifecycle ends with CLEARED state.
`value.data[].epochs_in_range`	Array	List of all epochs and the associated event states for the duration specified through $start_time and $end_time parameterss.

Path	Type	Description
`value.data[].next_lifecycle`	`Object`	Collection time and state representing the start of the next lifecycle associated with the event.
`value.data[].previous_lifecycle`	`Object`	Collection time and state representing the start of the previous lifecycle associated with the event.

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 /nae/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: 168

{
  "email" : "yXXbezeZnk@cisco.com",
  "username" : "KkqXTSTkQV",
  "password" : "EFYYmrdQ",
  "confirm_password" : "EFYYmrdQ",
  "system_generated_password" : false
}
```

Example Response

```
HTTP/1.1 201 Created
Location: https://localhost/nae/nae/api/v1/config-services/users
Content-Type: application/json;charset=UTF-8
Content-Length: 1395

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-ba85de7a-96c3-4d62-b95d-5a2a69069446",
      "email" : "yXXbezeZnk@cisco.com",
      "username" : "KkqXTSTkQV",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-25T17:40:50Z",
        "millisecs" : 1919180450287
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/2c0fc24b-
ba85de7a-96c3-4d62-b95d-5a2a69069446"
      }, {
        "rel" : "getUsers",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/2c0fc24b-
ba85de7a-96c3-4d62-b95d-5a2a69069446"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/2c0fc24b-
ba85de7a-96c3-4d62-b95d-5a2a69069446"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/2c0fc24b-
ba85de7a-96c3-4d62-b95d-5a2a69069446/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 /nae/api/v1/config-services/users/c30252a4-b5d1-45c8-8df1-652a0f219709/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" : "pDBLIedwuVITBMY",
  "logged_in_user_password" : "tsvEquIwCx",
  "confirm_password" : "pDBLIedwuVITBMY",
  "system_generated_password" : false,
  "password_expiration_time_milli" : 1603820447686
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 707

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "c30252a4-b5d1-45c8-8df1-652a0f219709",
      "email" : "hrxgvblQrm@cisco.com",
      "username" : "NbUserRepositoryTestnMdJnOHkyg",
      "password_expiry_date" : {
        "rfc3339" : "2020-10-27T17:40:47Z",
        "millisecs" : 1603820447686
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users/c30252a4-b5d1-
45c8-8df1-652a0f219709/change-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 13. /nae/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 /nae/api/v1/config-services/users/fe61623b-98a7-4d81-a5db-763339733dd2 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: 1424

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "fe61623b-98a7-4d81-a5db-763339733dd2",
      "email" : "QqATADqNdu@cisco.com",
      "username" : "NbUserRepositoryTestmbXsrEMcnU",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-27T17:40:49Z",
        "millisecs" : 1919353249601
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"
      }, {
        "rel" : "getUsers",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestmbXsrEMcnU/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 14. /nae/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_dat` `e.rfc3339`	`String`	Password expiry date as String.
`value.data.password_expiry_dat` `e.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[].hre` `f`	`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 /nae/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: 7527

{
```

```
      "success" : true,
      "value" : {
        "namespaces" : {
          "default" : "https://www.cisco.com/api/schema"
        },
        "data" : [ {
          "uuid" : "8c2f8ed6-7f4d-4439-a604-459d0f370cb5",
          "email" : "hwXnTDMVij@cisco.com",
          "username" : "admin",
          "password_expiry_date" : {
            "rfc3339" : "2030-10-27T17:40:47Z",
            "millisecs" : 1919353247608
          },
          "is_super_admin" : true,
          "links" : [ {
            "rel" : "self",
            "href" : "https://localhost/nae/api/v1/config-services/users"
          }, {
            "rel" : "getUser",
            "href" : "https://localhost/nae/api/v1/config-services/users/8c2f8ed6-7f4d-
4439-a604-459d0f370cb5"
          }, {
            "rel" : "editUser",
            "href" : "https://localhost/nae/api/v1/config-services/users/8c2f8ed6-7f4d-
4439-a604-459d0f370cb5"
          }, {
            "rel" : "deleteUser",
            "href" : "https://localhost/nae/api/v1/config-services/users/8c2f8ed6-7f4d-
4439-a604-459d0f370cb5"
          }, {
            "rel" : "changePassword",
            "href" : "https://localhost/nae/api/v1/config-services/users/8c2f8ed6-7f4d-
4439-a604-459d0f370cb5/change-password"
          }, {
            "rel" : "forgotPassword",
            "href" : "https://localhost/nae/api/v1/config-services/users/admin/forgot-
password"
          } ]
        }, {
          "uuid" : "c30252a4-b5d1-45c8-8df1-652a0f219709",
          "email" : "hrxgvblQrm@cisco.com",
          "username" : "NbUserRepositoryTestnMdJnOHkyg",
          "password_expiry_date" : {
            "rfc3339" : "2020-10-27T17:40:47Z",
            "millisecs" : 1603820447686
          },
          "is_super_admin" : false,
          "links" : [ {
            "rel" : "self",
            "href" : "https://localhost/nae/api/v1/config-services/users"
          }, {
```

```
      "rel" : "getUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/c30252a4-b5d1-
45c8-8df1-652a0f219709"
    }, {
      "rel" : "editUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/c30252a4-b5d1-
45c8-8df1-652a0f219709"
    }, {
      "rel" : "deleteUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/c30252a4-b5d1-
45c8-8df1-652a0f219709"
    }, {
      "rel" : "changePassword",
      "href" : "https://localhost/nae/api/v1/config-services/users/c30252a4-b5d1-
45c8-8df1-652a0f219709/change-password"
    }, {
      "rel" : "forgotPassword",
      "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestnMdJnOHkyg/forgot-password"
    } ]
  }, {
    "uuid" : "348d232d-745c-4776-b447-40eacc02a6a0",
    "email" : "sOsOezeiKS@cisco.com",
    "username" : "NbUserRepositoryTestxSrPZfCgkl",
    "password_expiry_date" : {
      "rfc3339" : "2030-10-27T17:40:48Z",
      "millisecs" : 1919353248283
    },
    "is_super_admin" : false,
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/config-services/users"
    }, {
      "rel" : "getUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0"
    }, {
      "rel" : "editUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0"
    }, {
      "rel" : "deleteUser",
      "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0"
    }, {
      "rel" : "changePassword",
      "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0/change-password"
    }, {
      "rel" : "forgotPassword",
      "href" : "https://localhost/nae/api/v1/config-
```

services/users/NbUserRepositoryTestxSrPZfCgkl/forgot-password"
      }]
    }, {
      "uuid" : "a24baf71-7662-421c-8ee9-b63f7e9b76ce",
      "email" : "zpsqmWZPDL@cisco.com",
      "username" : "NbUserRepositoryTestZBAUvLZRUr",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-27T17:40:48Z",
        "millisecs" : 1919353248929
      },
      "is_super_admin" : false,
      "links" : [{
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/a24baf71-7662-
421c-8ee9-b63f7e9b76ce"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/a24baf71-7662-
421c-8ee9-b63f7e9b76ce"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/a24baf71-7662-
421c-8ee9-b63f7e9b76ce"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/a24baf71-7662-
421c-8ee9-b63f7e9b76ce/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestZBAUvLZRUr/forgot-password"
      }]
    }, {
      "uuid" : "fe61623b-98a7-4d81-a5db-763339733dd2",
      "email" : "QqATADqNdu@cisco.com",
      "username" : "NbUserRepositoryTestmbXsrEMcnU",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-27T17:40:49Z",
        "millisecs" : 1919353249601
      },
      "is_super_admin" : false,
      "links" : [{
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"

```
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/fe61623b-98a7-
4d81-a5db-763339733dd2/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestmbXsrEMcnU/forgot-password"
      } ]
    }, {
      "uuid" : "6087946b-ac5e-44e9-a4f6-97f35aed6659",
      "email" : "XOSLJwKhXl@cisco.com",
      "username" : "NbUserRepositoryTestyWYWZvRAYT",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-27T17:40:50Z",
        "millisecs" : 1919353250122
      },
      "is_super_admin" : false,
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      }, {
        "rel" : "getUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/6087946b-ac5e-
44e9-a4f6-97f35aed6659"
      }, {
        "rel" : "editUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/6087946b-ac5e-
44e9-a4f6-97f35aed6659"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/6087946b-ac5e-
44e9-a4f6-97f35aed6659"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/6087946b-ac5e-
44e9-a4f6-97f35aed6659/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestyWYWZvRAYT/forgot-password"
      } ]
    } ],
```

```
      "data_summary" : {
        "links" : [ {
          "rel" : "createUser",
          "href" : "https://localhost/nae/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 /nae/api/v1/config-services/users/348d232d-745c-4776-b447-40eacc02a6a0 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" : "sOsOezeiKS@cisco.com"
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1169

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "348d232d-745c-4776-b447-40eacc02a6a0",
      "email" : "sOsOezeiKS@cisco.com",
      "username" : "NbUserRepositoryTestxSrPZfCgkl",
      "password_expiry_date" : {
        "rfc3339" : "2030-10-27T17:40:48Z",
        "millisecs" : 1919353248283
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/348d232d-745c-
4776-b447-40eacc02a6a0/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestxSrPZfCgkl/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 15. /nae/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 /nae/api/v1/config-services/users/bc9a21a1-1f2f-4aee-9de9-4374266e8d74 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: bc9a21a1-1f2f-4aee-9de9-4374266e8d74
Content-Type: application/json;charset=UTF-8
Content-Length: 479

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users/bc9a21a1-1f2f-
4aee-9de9-4374266e8d74"
      }, {
        "rel" : "createUser",
        "href" : "https://localhost/nae/api/v1/config-services/users"
      } ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 16. /nae/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. A 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 cannot update their own password expiration time.

Example Request

```
PATCH /nae/api/v1/config-services/users/c7d53779-278f-4e17-9108-2a23dd921372/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" : 1603820450696
}
```

Example Response

```
HTTP/1.1 200 OK
sessionsToEvictUserId: c7d53779-278f-4e17-9108-2a23dd921372
Content-Type: application/json;charset=UTF-8
Content-Length: 1185

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "c7d53779-278f-4e17-9108-2a23dd921372",
      "email" : "nBcpJYUotd@cisco.com",
      "username" : "NbUserRepositoryTestJxcwOwFffg",
      "password_expiry_date" : {
        "rfc3339" : "2020-10-27T17:40:50Z",
        "millisecs" : 1603820450696
      },
      "is_super_admin" : false
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/users/c7d53779-278f-
4e17-9108-2a23dd921372/change-password"
      }, {
        "rel" : "deleteUser",
        "href" : "https://localhost/nae/api/v1/config-services/users/c7d53779-278f-
4e17-9108-2a23dd921372"
      }, {
        "rel" : "changePassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/c7d53779-278f-
4e17-9108-2a23dd921372/change-password"
      }, {
        "rel" : "forgotPassword",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestJxcwOwFffg/forgot-password"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 17. /nae/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_dat e.rfc3339`	`String`	Password expiry date as String.
`value.data.password_expiry_dat e.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[].hre f`	`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 /nae/api/v1/config-services/users/NbUserRepositoryTestZBAUvLZRUr/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: 544

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-
services/users/NbUserRepositoryTestZBAUvLZRUr/forgot-password"
      }, {
        "rel" : "resetPassword",
        "href" : "https://localhost/nae/api/v1/config-services/users/8d00aeb1-3440-
49b6-9c9b-61e2adbe3be7/reset-password"
      } ],
      "total_count" : 0,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 18. /nae/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 /nae/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 /nae/api/v1/config-services/users/OsiMrwkTmXcyVEm/reset-password HTTP/1.1
Content-Type: application/json
Accept: application/json
Host: localhost:8080
Content-Length: 82


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

Example Response

```
HTTP/1.1 200 OK
sessionsToEvictUserId: 9950bfb0-fa49-4db5-b722-6f25e817a9c2
Content-Type: application/json;charset=UTF-8
Content-Length: 398


{
  "success" : true,
  "messages" : [ {
    "code" : 9007,
    "severity" : "INFO",
    "message" : "The password for user NbUserRepositoryTestEvmJzoymKY 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 19. /nae/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 /nae/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: 1058

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "session_id" : "e01b29a9-39fd-4e32-ad29-2f5fb8c38817",
      "username" : "admin",
      "domain" : "Local",
      "created_time" : {
        "rfc3339" : "2020-10-27T17:35:24Z",
        "millisecs" : 1603820124311
      },
      "last_accessed_time" : {
        "rfc3339" : "2020-10-27T17:35:24Z",
        "millisecs" : 1603820124311
      },
      "expire_time" : {
        "rfc3339" : "2020-10-27T18:05:24Z",
        "millisecs" : 1603821924311
      },
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/sessions/e01b29a9-39fd-4e32-ad29-
2f5fb8c38817"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/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 /nae/api/v1/sessions/e01b29a9-39fd-4e32-ad29-2f5fb8c38817 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: 997

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "session_id" : "e01b29a9-39fd-4e32-ad29-2f5fb8c38817",
      "username" : "admin",
      "domain" : "Local",
      "created_time" : {
        "rfc3339" : "2020-10-27T17:35:24Z",
        "millisecs" : 1603820124311
      },
      "last_accessed_time" : {
        "rfc3339" : "2020-10-27T17:35:24Z",
        "millisecs" : 1603820124311
      },
      "expire_time" : {
        "rfc3339" : "2020-10-27T18:05:24Z",
        "millisecs" : 1603821924311
      },
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/sessions/e01b29a9-39fd-4e32-ad29-
2f5fb8c38817"
      }, {
        "rel" : "deleteSession",
        "href" : "https://localhost/nae/api/v1/sessions/e01b29a9-39fd-4e32-ad29-
2f5fb8c38817"
      } ],
      "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 /nae/api/v1/sessions/91305f38-d547-4bc1-a4c7-601c76447d82 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 20. /nae/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 requirement Cisco NAE.

These APIs require an active authenticated API session.

Create a Requirement

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

Example Request

```
POST /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 690


{
  "name" : "samdLTRczd",
  "description" :
"dMdBIYCExaxenZwUPlEjjKHRFtIqPkwzqnqcdqfStlahhupCyoypakFQhhddZGYPWNJXBZXHjpvPmOUurjeLz
PXOSuEAuHHcoQIl",
  "epg_selector_a" : "OZqABPDboS",
  "requirement_type" : "CONFIGURATION_COMPLIANCE",
  "remove_non_config_attributes" : false,
  "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"
    } ]
  },
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2388


{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-26bc7a3e-0eee-4d62-91bf-f042e4260864",
      "name" : "samdLTRczd",
```

```
      "description" :
"dMdBIYCExaxenZwUPlEjjKHRFtIqPkwzqnqcdqfStlahhupCyoypakFQhhddZGYPWNJXBZXHjpvPmOUurjeLz
PXOSuEAuHHcoQIl",
      "epg_selector_a" : "OZqABPDboS",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "remove_non_config_attributes" : false,
      "config_compliance_parameter" : {
        "parameter_type" : "MUST_HAVE",
        "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"
        } ]
      },
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-26bc7a3e-0eee-4d62-91bf-f042e4260864"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-26bc7a3e-0eee-4d62-91bf-f042e4260864"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-26bc7a3e-0eee-4d62-91bf-f042e4260864"
```

```
      } ],
      "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: SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION.
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_equality_check	Boolean	Boolean value indicating whether to do equality or containment check against the selected base epoch.
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.
remove_non_config_attributes	Boolean	Boolean value indicating whether non-configurable attributes will be removed from uploaded golden configuration file.
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. This 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.
`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: SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION.
`value.data.communication_type`	`String`	Type of communication: MUST_NOT, MUST, MAY.
`value.data.is_all_traffic`	`Boolean`	Boolean value indicating whether the communication is all traffic.
`value.data.enable_equality_check`	`Boolean`	Boolean value indicating whether to do equality or containment check against the selected base epoch.
`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.remove_non_config_attributes`	`Boolean`	Boolean value indicating whether non-configurable attributes will be removed from uploaded golden configuration file.
`value.data.config_compliance_parameter.parameter_type`	`String`	Parameter type used for grouping the parameters: MUST_BE_ASSOCIATED, MUST_HAVE
`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. This can be obtained through fetching.

Path	Type	Description
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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirements/2c0fc24b-49fce516-
53b7-42e9-bbde-eace8a1a3eba 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: 2651

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba",
```

```
      "name" : "Yadraxscel",
      "description" :
"COyeNrgPXnzFQcQShsDIGAuogMkjHghhMEAejTnnJPEzPgNDwJJgcRZMVbhlACmsYaLUOjtUrhpWrungpboKv
zUVArCrGYbpxPsq",
      "epg_selector_a" : "ZMNmqqittL",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "remove_non_config_attributes" : false,
      "config_compliance_parameter" : {
        "parameter_type" : "MUST_HAVE",
        "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"
        } ]
      },
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "saveRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
```

```
requirement/requirements/2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 21. /nae/api/v1/event-services/assured-networks/{id}/model/aci-policy/compliance-requirement/requirements/2c0fc24b-49fce516-53b7-42e9-bbde-eace8a1a3eba

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: SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION.
`value.data.communication_type`	String	Type of communication: MUST_NOT, MUST, MAY.
`value.data.is_all_traffic`	Boolean	Boolean value indicating whether the communication is all traffic.
`value.data.enable_equality_check`	Boolean	Boolean value indicating whether to do equality or containment check against the selected base epoch.

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.remove_non_config_attributes`	`Boolean`	Boolean value indicating whether non-configurable attributes will be removed from uploaded golden configuration file.
`value.data.config_compliance_parameter.parameter_type`	`String`	Parameter type used for grouping the parameters: MUST_BE_ASSOCIATED, MUST_HAVE
`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. This 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 All Requirements

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

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 2537

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "2c0fc24b-99649064-693d-4452-9280-65c87c4edb15",
      "name" : "epQNhSumrF",
      "description" :
"MBohJjzwwUuGXbJUzMZGuwJauQkiVsEUZyHUWBBMQrrWpLcrFWndIwXPQogYejMJTQVcPesiikuMaBjgiZmSq
fyRdSsSPUgpBtBg",
      "epg_selector_a" : "LFenJPpfVd",
      "traffic_selector" : "ALL TRAFFIC",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "remove_non_config_attributes" : false,
      "config_compliance_parameter" : {
        "parameter_type" : "MUST_HAVE",
        "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"
        } ]
      },
```

```
    "links" : [ {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-99649064-693d-4452-9280-65c87c4edb15"
      }, {
        "rel" : "editRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-99649064-693d-4452-9280-65c87c4edb15"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-99649064-693d-4452-9280-65c87c4edb15"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements"
      }, {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/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.

Path	Type	Description
value.data[].requirement_type	String	Type of the requirement, can be : SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION.
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[].enable_equality_check	Boolean	Boolean value indicating whether INFO events are raised for every tenant or every EPG pair when the compliance requirement is satisfied.
value.data[].remove_non_config_attributes	Boolean	Boolean value indicating whether non-configurable attributes will be removed from uploaded golden configuration file.
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.parameter_type	String	String value representing the parameter type used for grouping parameters.
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.

Path	Type	Description
`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.
`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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirements/2c0fc24b-9724b265-
a3ac-4041-a3f0-7c57aca4116c HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 816

{
  "uuid" : "2c0fc24b-9724b265-a3ac-4041-a3f0-7c57aca4116c",
  "name" : "updated-name",
  "description" :
"gPbMmYfYzfyWkcJWcSMprwvzacrqsRHVzYRSotGsYfubHASkGfXHJdhPFVFULHCvgHUVHVqzGUimkoaGuMpFP
ddqgpKlSDyAkjXR",
  "epg_selector_a" : "VGMPwnGdxm",
  "requirement_type" : "CONFIGURATION_COMPLIANCE",
  "is_all_traffic" : false,
  "remove_non_config_attributes" : false,
  "config_compliance_parameter" : {
    "parameter_type" : "MUST_HAVE",
    "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"
    } ]
  },
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2175

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

```
    },
    "data" : {
      "uuid" : "2c0fc24b-9724b265-a3ac-4041-a3f0-7c57aca4116c",
      "name" : "updated-name",
      "description" :
"gPbMmYfYzfyWkcJWcSMprwvzacrqsRHVzYRSotGsYfubHASkGfXHJdhPFVFULHCvgHUVHVqzGUimkoaGuMpFP
ddqgpKlSDyAkjXR",
      "epg_selector_a" : "VGMPwnGdxm",
      "requirement_type" : "CONFIGURATION_COMPLIANCE",
      "is_all_traffic" : false,
      "remove_non_config_attributes" : false,
      "config_compliance_parameter" : {
        "parameter_type" : "MUST_HAVE",
        "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"
        } ]
      },
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-9724b265-a3ac-4041-a3f0-7c57aca4116c"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-9724b265-a3ac-4041-a3f0-7c57aca4116c"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-9724b265-a3ac-4041-a3f0-7c57aca4116c"
      } ],
```

```
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 22. /nae/api/v1/event-services/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: SLA, CONFIGURATION_COMPLIANCE, TRAFFIC_RESTRICTION, SEGMENTATION.
value.data.communication_type	String	Type of communication: MUST_NOT, MUST, MAY.
value.data.is_all_traffic	Boolean	Boolean value indicating whether the communication is all traffic.
value.data.enable_equality_check	Boolean	Boolean value indicating whether to do equality or containment check against the selected base epoch.
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.

Path	Type	Description
`value.data.remove_non_config_attributes`	`Boolean`	Boolean value indicating whether non-configurable attributes will be removed from uploaded golden configuration file.
`value.data.config_compliance_parameter.parameter_type`	`String`	Parameter type used for grouping the parameters: MUST_BE_ASSOCIATED, MUST_HAVE
`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. This 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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirements/2c0fc24b-924e4bee-
aed9-4d77-89b4-29d16cfd9e3d 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: 488

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Requirement successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

*Table 23. /nae/api/v1/event-services/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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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" : "EUeDtIOvrS",
  "requirements" : [ "ebWxkwIwNo" ],
  "assurance_groups" : [ {
    "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
    "active" : true
  } ],
  "links" : [ ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 2111

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-26ecdd59-42b5-42a1-afd9-40b77c527720",
      "name" : "EUeDtIOvrS",
      "requirements" : [ "ebWxkwIwNo" ],
```

```
      "assurance_groups" : [ {
        "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
        "active" : true,
        "fabric_name" : "nEOxqhhoTo"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets"
      }, {
        "rel" : "getRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-26ecdd59-42b5-42a1-afd9-40b77c527720"
      }, {
        "rel" : "getRequirementSets",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets?queryParams={queryParams}"
      }, {
        "rel" : "getRequirementSetAssociatedRequirements",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/{uuid}/associated-requirements"
      }, {
        "rel" : "editRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-26ecdd59-42b5-42a1-afd9-40b77c527720"
      }, {
        "rel" : "deleteRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-26ecdd59-42b5-42a1-afd9-40b77c527720"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Request Fields

Path	Type	Description
name	String	Name of the requirement set.

Path	Type	Description
`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[].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 Set

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

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirement-sets/2c0fc24b-
90dc15e8-d820-4e59-88e8-8954ff8dfa5f 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: 2148

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f",
      "name" : "rcAKqFpUtC",
      "requirements" : [ "kHqyoDvkxG" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
        "active" : true,
        "fabric_name" : "nEOxqhhoTo"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f"
      }, {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f/associated-
```

```
      requirements"
      }, {
         "rel" : "getRequirementSets",
         "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets?queryParams={queryParams}"
      }, {
         "rel" : "editRequirementSet",
         "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f"
      }, {
         "rel" : "deleteRequirementSet",
         "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f"
      }, {
         "rel" : "self",
         "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-90dc15e8-d820-4e59-88e8-8954ff8dfa5f"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 24. /nae/api/v1/event-services/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.
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.

Path	Type	Description
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 All Requirement Sets

A GET request returns the records of all requirement sets.

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 2479
```

```
{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "2c0fc24b-ed3e20a4-324a-473d-a407-5f9b83ed3156",
      "name" : "NLxqCltaXa",
      "requirements" : [ "JgdlXoJmZz" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
        "active" : true,
        "fabric_name" : "nEOxqhhoTo"
      } ],
      "status" : "active",
      "associated" : "yes",
      "links" : [ {
        "rel" : "getRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-ed3e20a4-324a-473d-a407-5f9b83ed3156"
      }, {
        "rel" : "getRequirementSets",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets?queryParams={queryParams}"
      }, {
        "rel" : "getRequirementSetAssociatedRequirements",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/{uuid}/associated-requirements"
      }, {
        "rel" : "editRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-ed3e20a4-324a-473d-a407-5f9b83ed3156"
      }, {
        "rel" : "deleteRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-ed3e20a4-324a-473d-a407-5f9b83ed3156"
      } ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets"
      }, {
```

```
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
  networks/0667da12-8718-4385-9b77-dbe0ca589d60/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[].hre f	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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirement-sets/2c0fc24b-
92b91634-f6c2-43b2-a3d2-fc80c5bbd764 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" : "2c0fc24b-92b91634-f6c2-43b2-a3d2-fc80c5bbd764",
  "name" : "updated-name",
  "requirements" : [ "FVStFcSRKM" ],
  "assurance_groups" : [ {
    "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
    "active" : true,
    "fabric_name" : "nEOxqhhoTo"
  } ]
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 1594

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-92b91634-f6c2-43b2-a3d2-fc80c5bbd764",
      "name" : "updated-name",
      "requirements" : [ "FVStFcSRKM" ],
      "assurance_groups" : [ {
        "fabric_uuid" : "0667da12-8718-4385-9b77-dbe0ca589d60",
        "active" : true,
        "fabric_name" : "nEOxqhhoTo"
      } ],
      "links" : [ ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets/2c0fc24b-92b91634-f6c2-43b2-a3d2-fc80c5bbd764"
      }, {
        "rel" : "getRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-92b91634-f6c2-43b2-a3d2-fc80c5bbd764"
      }, {
        "rel" : "getRequirements",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements?queryParams={queryParams}"
      }, {
        "rel" : "deleteRequirement",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/2c0fc24b-92b91634-f6c2-43b2-a3d2-fc80c5bbd764"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 25. /nae/api/v1/event-services/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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/requirement-sets/2c0fc24b-
4ad16f03-279e-42d2-b0fd-832d287c3be5 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: 499

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Requirement Set successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveRequirementSet",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirement-sets"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 26. /nae/api/v1/event-services/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 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.

Create a Traffic Selector

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

Example Request

```
POST /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 4156

{
  "name" : "mfZExqByyd",
  "description" : "LxZD",
  "includes" : {
    "selectors" : [ {
      "selectors" : [ {
        "port_selector_ato_b" : {
          "src_port" :
"02538288862375156084350895605354501855342951765917646861705328096902625950593437055 28
885781652965642",
          "dst_port" :
"42218289432793140591985438884024662289606531756156626833104509094342883672085046957 86
173393988209684",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "RESET" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"17688020768883609854518757329441997107580458985342753730050640971263423408543098335 39
221593235188539",
          "dst_port" :
"43880837085414856383218865307178481508964766845042809258510365788585682713331604326 86
```

385341796177229",
          "log_flag" : true,
          "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" :
"02538288862375156084350895605354501855342951765917646861705328096902625950593437055288
85781652965642",
          "dst_port" :
"42218289432793140591985438884024662289606531756156626833104509094342883672085046957861
73393988209684",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : ["FINISH"],
          "tcp_flags_not_set" : ["RESET"]
        },
        "port_selector_bto_a" : {
          "src_port" :
"17688020768883609854518757329441997107580458985342753730050640971263423408543098335392
21593235188539",
          "dst_port" :
"43880837085414856383218865307178481508964766845042809258510365788585682713331604326866
385341796177229",
          "log_flag" : true,
          "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" :
"64630517315860612247495992268970593966206429511335969876828729277416357131613654546295
29387506687752",
          "dst_port" :
"21425637260898113105730197370368276374156780823009790289915583566177942489595200351637
47904856597513",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : ["SYNCHRONIZED"],
          "tcp_flags_not_set" : ["RESET"]
        },
        "port_selector_bto_a" : {

```
          "src_port" :
"118093071970318671997790461564794484252167512609596242737016376277495756221493967538
0775373469410427",
          "dst_port" :
"130723607111111620547882717896741972101213593321042944485829912042035598803742276458
0153527995293784",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
        },
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      }, {
        "port_selector_ato_b" : {
          "src_port" :
"646305173158606122474959922689705939662064295113359698768287292774163571316136545462
9529387506687752",
          "dst_port" :
"214256372608981131057301973703682763741567808230097902899155835661779424895952003516
3747904856597513",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "SYNCHRONIZED" ],
          "tcp_flags_not_set" : [ "RESET" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"118093071970318671997790461564794484252167512609596242737016376277495756221493967538
0775373469410427",
          "dst_port" :
"130723607111111620547882717896741972101213593321042944485829912042035598803742276458
0153527995293784",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "ACKNOWLEDGEMENT" ]
        },
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      } ]
    } ]
  }
}
```

Example Response

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json;charset=UTF-8
Content-Length: 5888

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-15ec14ae-de4e-497a-ae28-b26ff1ce8245",
      "name" : "mfZExqByyd",
      "description" : "LxZD",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "port_selector_ato_b" : {
              "src_port" :
"02538288862375156084350895605354501855342951765917646861705328096902625950593437055
28
885781652965642",
              "dst_port" :
"42218289432793140591985438884024662289606531756156626833104509094342883672085046957
86
173393988209684",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ ],
              "tcp_flags_not_set" : [ ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"17688020768883609854518757329441997107580458985342753730050640971263423408543098335
39
221593235188539",
              "dst_port" :
"43880837085414856383218865307178481508964766845042809258510365788585682713331604326
86
385341796177229",
              "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" :
"02538288862375156084350895605354501855342951765917646861705328096902625950593437055
28
885781652965642",
              "dst_port" :
"42218289432793140591985438884024662289606531756156626833104509094342883672085046957
86
173393988209684",
```

```
                    "log_flag" : false,
                    "tcp_flag" : false,
                    "tcp_flags_set" : [ ],
                    "tcp_flags_not_set" : [ ]
                  },
                  "port_selector_bto_a" : {
                    "src_port" :
"176880207688836098545187573294419971075804589853427537300506409712634234085430983353
9221159235188539",
                    "dst_port" :
"438808370854148563832188653071784815089647668450428092585103657885856827133316043268
6385341796177229",
                    "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" :
"646305173158606122474959922689705939662064295113359698768287292774163571316136545462
9529387506687752",
                    "dst_port" :
"214256372608981131057301973703682763741567808230097902899155835661779424895952003516
3747904856597513",
                    "log_flag" : true,
                    "tcp_flag" : false,
                    "tcp_flags_set" : [ ],
                    "tcp_flags_not_set" : [ ]
                  },
                  "port_selector_bto_a" : {
                    "src_port" :
"118093071970318671997790461564794484252167512609596242737016376277495756221493967538
0775373469410427",
                    "dst_port" :
"130723607111111620547882717896741972101213593321042944485829912042035598803742276458
0153527995293784",
                    "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" :
```

"646305173158606122474959922689705939662064295113359698768287292774163571316136545462
9529387506687752",
                "dst_port" :
"214256372608981131057301973703682763741567808230097902899155835661779424895952003516
3747904856597513",
                "log_flag" : true,
                "tcp_flag" : false,
                "tcp_flags_set" : [ ],
                "tcp_flags_not_set" : [ ]
             },
             "port_selector_bto_a" : {
                "src_port" :
"118093071970318671997790461564794484252167512609596242737016376277495756221493967538
0775373469410427",
                "dst_port" :
"130723607111111620547882717896741972101213593321042944485829912042035598803742276458
0153527995293784",
                "log_flag" : false,
                "tcp_flag" : false,
                "tcp_flags_set" : [ ],
                "tcp_flags_not_set" : [ ]
             },
             "ether_type" : "IP",
             "ip_protocol" : "TCP",
             "reverse_port" : false
          }]
       }]
     }
   },
   "data_summary" : {
     "links" : [{
       "rel" : "self",
       "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors"
     }, {
       "rel" : "getTrafficSelector",
       "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-15ec14ae-de4e-497a-ae28-b26ff1ce8245"
     }, {
       "rel" : "getTrafficSelectors",
       "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors?queryParams={queryParams}"
     }, {
       "rel" : "editTrafficSelector",
       "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-15ec14ae-de4e-497a-ae28-b26ff1ce8245"
     }, {

```
          "rel" : "deleteTrafficSelector",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
    networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
    requirement/traffic-selectors/2c0fc24b-15ec14ae-de4e-497a-ae28-b26ff1ce8245"
        } ],
        "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 this 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 this 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 this 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 this 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 this 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 this 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 this 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 this 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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/traffic-selectors/2c0fc24b-
6c82cd90-d4fa-43a6-88d0-0b9b375a186c 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: 3704

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

```
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-6c82cd90-d4fa-43a6-88d0-0b9b375a186c",
      "name" : "gTniuhqjVR",
      "description" : "vnTX",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "port_selector_ato_b" : {
              "src_port" :
"13325238913334711189049907322167559856159577115242737558776609708399619202442697912716
61329836472885",
              "dst_port" :
"34307270324913906959155893948472494178355705927769935773366576938884278388121394257796
85088939551142",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "SYNCHRONIZED" ],
              "tcp_flags_not_set" : [ "FINISH" ]
            },
            "port_selector_bto_a" : {
              "src_port" :
"69503998336226873519061465704321680869479913164331833774455275985391508993371789538575
82615193992679",
              "dst_port" :
"17083980538370855313104291494903391319412118762927490047603329559634292599852470192919
796407927623873",
              "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" :
"13325238913334711189049907322167559856159577115242737558776609708399619202442697912716
61329836472885",
              "dst_port" :
"34307270324913906959155893948472494178355705927769935773366576938884278388121394257796
85088939551142",
              "log_flag" : true,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "SYNCHRONIZED" ],
              "tcp_flags_not_set" : [ "FINISH" ]
            },
            "port_selector_bto_a" : {
```

```
              "src_port" :
"6950399833622687351906146570432168086947991316433183377445527598539150899337178953857
582615193992679",
              "dst_port" :
"17083980538370855313104291494903391319412118762927490476033295596342925998524701929 19
796407927623873",
              "log_flag" : false,
              "tcp_flag" : false,
              "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
              "tcp_flags_not_set" : [ "SYNCHRONIZED" ]
          },
          "ether_type" : "IP",
          "ip_protocol" : "TCP",
          "reverse_port" : false
        } ]
      } ]
    }
  },
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-6c82cd90-d4fa-43a6-88d0-0b9b375a186c"
    }, {
      "rel" : "editTrafficSelector",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-6c82cd90-d4fa-43a6-88d0-0b9b375a186c"
    }, {
      "rel" : "deleteTrafficSelector",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-6c82cd90-d4fa-43a6-88d0-0b9b375a186c"
    }, {
      "rel" : "getTrafficSelectors",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors?queryParams={queryParams}"
    } ],
    "total_count" : 1,
    "has_more_data" : false
  }
 }
}
```

Path Parameters

Table 27. /nae/api/v1/event-services/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_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 this list: [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

Path	Type	Description
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 this 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 this 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 this 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 All Traffic Selectors

A GET request returns the records of all traffic selectors.

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/traffic-
selectors?$filter=name:qwwPgWuEQm&$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: 753

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "2c0fc24b-b1eb7f17-e64f-4334-9ac8-1d97c85ffb4a",
      "name" : "qwwPgWuEQm",
      "description" : "Qqfw",
      "associated_requirements" : [ ]
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors?$filter=name:qwwPgWuEQm&$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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/traffic-selectors/2c0fc24b-
c275a887-2c4c-42ae-a91a-2765fd930a51 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 4234
```

```
{
  "uuid" : "2c0fc24b-c275a887-2c4c-42ae-a91a-2765fd930a51",
  "name" : "xUodIeEpOt",
  "description" : "lyWr",
  "includes" : {
    "selectors" : [ {
      "selectors" : [ {
        "port_selector_ato_b" : {
          "src_port" :
"86699285018642527193504440040939575269595624367388911588302767205480217061560908228804
954276584008081",
          "dst_port" :
"56068282069863197844158152176540309832525642440126323042837263054897364803471276279550
215600405820989",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"44750853909552209007950496075684572638972612886095124413943291356618297240470444564871
916382252534152",
          "dst_port" :
"69614504447905870567425951866377812122342579537483668610584161118585878950142402720111
571985000507222",
          "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" :
"86699285018642527193504440040939575269595624367388911588302767205480217061560908228804
954276584008081",
          "dst_port" :
"56068282069863197844158152176540309832525642440126323042837263054897364803471276279550
215600405820989",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "FINISH" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"44750853909552209007950496075684572638972612886095124413943291356618297240470444564871
916382252534152",
```

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          "dst_port" :
"696145044479058705674259518663778121223425795374836686105841611185858789501424027201
1571985000507222",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : ["FINISH"],
          "tcp_flags_not_set" : ["SYNCHRONIZED"]
        },
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      }]
    }, {
      "selectors" : [{
        "port_selector_ato_b" : {
          "src_port" :
"206492371422574786027899040157973755203883461770968456182990233858616569914311931916
4378910462535304",
          "dst_port" :
"097875081463094719923843745492631598011162750764169416148871822354332016319667287922
3133599394754394",
          "log_flag" : true,
          "tcp_flag" : false,
          "tcp_flags_set" : ["SYNCHRONIZED"],
          "tcp_flags_not_set" : ["FINISH"]
        },
        "port_selector_bto_a" : {
          "src_port" :
"392401268325379882034349520669396144081495913680431637642128513579072817488303577160
8830472903745427",
          "dst_port" :
"663358152918939671950300755495282494063852073944046921444215447692637489435823259919
4655099765767498",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : ["ACKNOWLEDGEMENT"],
          "tcp_flags_not_set" : ["FINISH"]
        },
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      }, {
        "port_selector_ato_b" : {
          "src_port" :
"206492371422574786027899040157973755203883461770968456182990233858616569914311931916
4378910462535304",
          "dst_port" :
"097875081463094719923843745492631598011162750764169416148871822354332016319667287922
3133599394754394",
          "log_flag" : true,
          "tcp_flag" : false,

```
          "tcp_flags_set" : [ "SYNCHRONIZED" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "port_selector_bto_a" : {
          "src_port" :
"39240126832537988203434952066939614408149591368043163764212851357907281748830357716088
830472903745427",
          "dst_port" :
"66335815291893967195030075549528249406385207394404692144421544769263748943582325991940
655099765767498",
          "log_flag" : false,
          "tcp_flag" : false,
          "tcp_flags_set" : [ "ACKNOWLEDGEMENT" ],
          "tcp_flags_not_set" : [ "FINISH" ]
        },
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      } ]
    } ]
  }
}
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 4909

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-c275a887-2c4c-42ae-a91a-2765fd930a51",
      "name" : "xUodIeEpOt",
      "description" : "lyWr",
      "includes" : {
        "selectors" : [ {
          "selectors" : [ {
            "port_selector_ato_b" : {
              "src_port" :
"86699285018642527193504440040939575269595624367388911588302767205480217061560908228040
954276584008081",
              "dst_port" :
"56068282069863197844158152176540309832525642440126323042837263054897364803471276279500
215600405820989",
              "log_flag" : false,
```

```
                "tcp_flag" : false,
                "tcp_flags_set" : [ ],
                "tcp_flags_not_set" : [ ]
              },
              "port_selector_bto_a" : {
                "src_port" :
"4475085390955220900795049607568457263897261288609512441394329135661829724047044564871
916382252534152",
                "dst_port" :
"6961450444790587056674259518663778121223425795374836686105841611185858789501424027201
1571985000507222",
                "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" :
"8669928501864252719350444004093957526959562436738891158830276720548021706156090822804
954276584008081",
                "dst_port" :
"5606828206986319784415815217654030983252564244012632304283726305489736480347127627950
215600405820989",
                "log_flag" : false,
                "tcp_flag" : false,
                "tcp_flags_set" : [ ],
                "tcp_flags_not_set" : [ ]
              },
              "port_selector_bto_a" : {
                "src_port" :
"4475085390955220900795049607568457263897261288609512441394329135661829724047044564871
916382252534152",
                "dst_port" :
"6961450444790587056674259518663778121223425795374836686105841611185858789501424027201
1571985000507222",
                "log_flag" : true,
                "tcp_flag" : false,
                "tcp_flags_set" : [ ],
                "tcp_flags_not_set" : [ ]
              },
              "ether_type" : "IP",
              "ip_protocol" : "TCP",
              "reverse_port" : false
            } ]
          }, {
            "selectors" : [ {
              "port_selector_ato_b" : {
```

```
            "src_port" :
"20649237142257478602789904015797375520388346177096845618299023385861656991431193191 64
378910462535304",
            "dst_port" :
"09787508146309471992384374549263159801116275076416941614887182235433201631966728792 23
133599394754394",
            "log_flag" : true,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"39240126832537988203434952066939614408149591368043163764212851357907281748830357716 08
830472903745427",
            "dst_port" :
"66335815291893967195030075549528249406385207394404692144421544769263748943582325991 94
655099765767498",
            "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" :
"20649237142257478602789904015797375520388346177096845618299023385861656991431193191 64
378910462535304",
            "dst_port" :
"09787508146309471992384374549263159801116275076416941614887182235433201631966728792 23
133599394754394",
            "log_flag" : true,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          },
          "port_selector_bto_a" : {
            "src_port" :
"39240126832537988203434952066939614408149591368043163764212851357907281748830357716 08
830472903745427",
            "dst_port" :
"66335815291893967195030075549528249406385207394404692144421544769263748943582325991 94
655099765767498",
            "log_flag" : false,
            "tcp_flag" : false,
            "tcp_flags_set" : [ ],
            "tcp_flags_not_set" : [ ]
          },
```

```
        "ether_type" : "IP",
        "ip_protocol" : "TCP",
        "reverse_port" : false
      } ]
    } ]
  }
},
"data_summary" : {
  "links" : [ {
    "rel" : "self",
    "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors/2c0fc24b-c275a887-2c4c-42ae-a91a-2765fd930a51"
  } ],
  "total_count" : 1,
  "has_more_data" : false
}
  }
}
```

Path Parameters

Table 28. /nae/api/v1/event-services/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

Path	Type	Description
`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 this 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 this 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 this 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 this list: [ACKNOWLEDGEMENT, FINISH, RESET, SYNCHRONIZED, ESTABLISHED]

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.
`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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/traffic-selectors/2c0fc24b-
7e370e80-b719-470b-80be-738ebfe4d01a 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: 501

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete TrafficSelector Successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveTrafficSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/traffic-selectors"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 29. /nae/api/v1/event-services/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.

Path	Type	Description
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.

Create an Object Selector

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

Example Request

```
POST /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 29302

{
  "name" : "ecXTaksHlL",
  "description" :
"KFVzkynkdBxyTmeUhfodotJeiyAhVHFbpatOYxXcuBOCusIEbhEfCpfUjRhQimYWOrNngXZBXNtIVZovtcklI
efUeDYSLTmDohuw",
  "includes" : [ {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "kxfUeEvewV",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JNdclRcJuX",
          "type" : "EXACT"
        },
        "application_profile" : {
          "pattern" : "nFGDtcrgWV",
          "type" : "BEGINS_WITH"
        }
```

```
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "JugeUkgItg",
            "type" : "ENDS_WITH"
          },
          "application_profile" : {
            "pattern" : "GgRZKqRimU",
            "type" : "ENDS_WITH"
          },
          "application_epg" : {
            "pattern" : "qGeXDasnOw",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "bxRMXFDExP",
            "type" : "NOT_CONTAINS"
          },
          "vrf" : {
            "pattern" : "wXBkMVORtq",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "VsucipbozT",
            "type" : "NOT_BEGINS_WITH"
          },
          "bd" : {
            "pattern" : "VkkHfkKCHj",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "GACvjyYYwN",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "ylhaOJBpkN",
            "type" : "NOT_BEGINS_WITH"
```

```
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "gaKGPubUEE",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "ZKsDMEQBqt",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "vvISRLmKWi",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "QRXuQQOQny",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "dvNevWOQHe",
            "type" : "NOT_BEGINS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "mUryMoxVNE",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "HCMawbHxqk",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "rwKlJfQckL",
            "type" : "NOT_BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "NbMUzdZvpY",
```

```
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "FmaEkHeeYL",
            "type" : "ENDS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "NUPiURzeqs",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "GCOLCTzJhD",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "caoIGHNrCN",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "kSPEwYCSZx",
            "type" : "EXACT"
          },
          "l3_ext_instp" : {
            "pattern" : "pujpTzNjeR",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "gCxvZVQRpx",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "SzxsIfMnjV",
            "type" : "NOT_BEGINS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "VqvYeDaIch",
            "type" : "CONTAINS"
          }
        }
      }
```

```
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "HKHXmzToOu",
            "type" : "EXACT"
          }
        }
      }, {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "DLvFwcqbgK",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LzbCsgKsjy",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "fNCzfytGKy",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "UkeJOzXVqy",
            "type" : "CONTAINS"
          },
          "application_profile" : {
            "pattern" : "xhuaIivJzn",
            "type" : "NOT_BEGINS_WITH"
          },
          "application_epg" : {
            "pattern" : "WObljgMJuV",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "cygTQUsVpB",
```

```
          "type" : "ENDS_WITH"
        },
        "vrf" : {
          "pattern" : "owOHlEpAld",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "zJzdoUQomf",
          "type" : "NOT_CONTAINS"
        },
        "bd" : {
          "pattern" : "PxCnTgJjSu",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "TjNPDobNWe",
          "type" : "ENDS_WITH"
        },
        "bd" : {
          "pattern" : "noPwHlJGCu",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "WGoAUAlFjW",
          "type" : "EXACT"
        },
        "l2_ext_out" : {
          "pattern" : "NQoAigAYgJ",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "BrxaCIUvfD",
          "type" : "ENDS_WITH"
        },
        "l2_ext_out" : {
```

```
          "pattern" : "ZIDSZAqRPH",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ocHPqUIFFP",
          "type" : "BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "RPKKdgSXMV",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "wnxgobWZly",
          "type" : "EXACT"
        },
        "l3_ext_out" : {
          "pattern" : "hMCCsMHqyc",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ebswEjsPGV",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "Oaznkeaswy",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "pqRyoBPVoE",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "eJheTVCaoJ",
          "type" : "BEGINS_WITH"
        },
```

```
        "l3_ext_out" : {
          "pattern" : "gygWNmvUOp",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_instp" : {
          "pattern" : "tSMVGFUonq",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "TKPhqsZCfI",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "dXVUSftzoi",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "jYEoYpftgc",
          "type" : "CONTAINS"
        }
      }
    } ]
  }, {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "rBqbbQpLPw",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "WmQqbDhkJm",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "JBeqQDYfaM",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
```

```
          "pattern" : "aJLHrJgvIP",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "WnKMZIvyCj",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "efIhJbhRnA",
          "type" : "ENDS_WITH"
        },
        "application_profile" : {
          "pattern" : "SLZagyewsB",
          "type" : "NOT_BEGINS_WITH"
        },
        "application_epg" : {
          "pattern" : "bkiJeeOAwe",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ftEfYMkNqt",
          "type" : "ENDS_WITH"
        },
        "vrf" : {
          "pattern" : "YsaOdogMIH",
          "type" : "CONTAINS"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "NLtLCNZAof",
          "type" : "NOT_CONTAINS"
        },
        "vrf" : {
          "pattern" : "NkyQxtKgQa",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
```

```
        "tenant" : {
          "pattern" : "XrLjwEOwVp",
          "type" : "NOT_CONTAINS"
        },
        "bd" : {
          "pattern" : "UWwYNGmUEx",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "UinrNdYUQS",
          "type" : "ENDS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "LEjQnbWUoA",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "LxhcOYJxhC",
          "type" : "EXACT"
        },
        "l3_ext_out" : {
          "pattern" : "BMMkOqWyAj",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "TsfvkVjTMo",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "ZMeoKyCXZa",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_instp" : {
          "pattern" : "qLIKysTUna",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
```

```
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "hTPCHxoqnR",
          "type" : "CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "PDLJFVbLRq",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "pdwiECtYbM",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }
  } ]
} ],
"excludes" : [ {
  "matches" : [ {
    "tenant_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "cfGrRrJlcg",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "tenant_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "oBETxzdUCb",
        "type" : "NOT_BEGINS_WITH"
      }
    }
  }, {
    "application_profile_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "PSLSSEziQG",
        "type" : "NOT_BEGINS_WITH"
      },
      "application_profile" : {
        "pattern" : "gTmluBBfnx",
        "type" : "EXACT"
      }
    }
  }, {
    "application_profile_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "gkZAIHMRLv",
        "type" : "CONTAINS"
```

```
        },
        "application_profile" : {
          "pattern" : "NnGiYGeWjI",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ilLyENfqhE",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "ywmIiCLPLr",
          "type" : "BEGINS_WITH"
        },
        "application_epg" : {
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          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "LJfXsEkhcm",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "muyowpqtiz",
          "type" : "EXACT"
        },
        "application_epg" : {
          "pattern" : "lrcPPveBLk",
          "type" : "CONTAINS"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "kOKRzBlXbf",
          "type" : "BEGINS_WITH"
        },
        "vrf" : {
          "pattern" : "XAyyrOIitQ",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
```

```
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "EYtmBcnfrq",
          "type" : "EXACT"
        },
        "bd" : {
          "pattern" : "ZXOEwfWbLe",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "gktGltiOWk",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "bZzSOHKXRd",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "oULCmbYJbK",
          "type" : "EXACT"
        },
        "l3_ext_out" : {
          "pattern" : "AENYreADYp",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "boYcmzqVcX",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "WZRWuVkNBX",
          "type" : "EXACT"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
```

```
          "pattern" : "bGKBtGakkb",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "BGunGLdNtE",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "PHwqzXoLVR",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "AUyQjzyfOw",
          "type" : "ENDS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "wctzEszWWH",
          "type" : "CONTAINS"
        },
        "l3_ext_instp" : {
          "pattern" : "uXdajXIRGb",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "HoAhuvFYdU",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "ReGkRVUcbi",
          "type" : "ENDS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "VKefIfzKQr",
          "type" : "EXACT"
        }
      }
    } ]
  }, {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JtxpccNRKH",
```

```
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JTWZhMrfvp",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "qwzommzGPt",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "XkjmsKgYDa",
          "type" : "NOT_BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "alcfRyEADu",
          "type" : "CONTAINS"
        },
        "application_epg" : {
          "pattern" : "tPpoVuAnLd",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "hPKZOcrkVA",
          "type" : "BEGINS_WITH"
        },
        "vrf" : {
          "pattern" : "FQfFJfOswC",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "pzcwRxFlJo",
          "type" : "BEGINS_WITH"
        },
        "vrf" : {
```

```json
          "pattern" : "zNctPMyULc",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "htvMgYdwbH",
          "type" : "EXACT"
        },
        "bd" : {
          "pattern" : "kQSPOQCPNT",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "EPMyuChRcZ",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "MICSYqSNmn",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "OKNbNWUWOx",
          "type" : "ENDS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "kVgcJfdldu",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "WJcUVpQqKr",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "FSLLpwoVeK",
          "type" : "NOT_CONTAINS"
        },
```

```
          "l2_ext_instp" : {
            "pattern" : "usRuXCOmwG",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LUKTDvIgpC",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "klXiGizEbw",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "FZJcbUupth",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "WeyikufbRW",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "YKYoWWjoax",
            "type" : "CONTAINS"
          },
          "l3_ext_instp" : {
            "pattern" : "taDjANvXRV",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "EdsKzWAljc",
            "type" : "EXACT"
          },
          "l3_ext_out" : {
            "pattern" : "pjfVcZjOAr",
            "type" : "BEGINS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "STQlCSXHOL",
            "type" : "BEGINS_WITH"
```

```
          }
        }
      } ]
    }, {
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "OzduFnkAIR",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "pkOMpEedIp",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "JDuzUvVoHC",
            "type" : "NOT_BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "xkQNDKCkQS",
            "type" : "ENDS_WITH"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "EeTQweYWHe",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "EaZzqYIgId",
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "ZyUFFEoXVf",
            "type" : "CONTAINS"
          },
```

```
      "application_profile" : {
        "pattern" : "CWcuIhXsmQ",
        "type" : "CONTAINS"
      },
      "application_epg" : {
        "pattern" : "ZZAcnvuZxC",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "LzjCQMsXva",
        "type" : "NOT_BEGINS_WITH"
      },
      "vrf" : {
        "pattern" : "KGxIjJQUph",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "oamzQJLOMJ",
        "type" : "BEGINS_WITH"
      },
      "bd" : {
        "pattern" : "DpydTWCOIf",
        "type" : "EXACT"
      }
    }
  }, {
    "l2_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "huuGmRbwiB",
        "type" : "ENDS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "nMNrhpKMqn",
        "type" : "CONTAINS"
      }
    }
  }, {
    "l2_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "rSRPjmmJAx",
        "type" : "NOT_CONTAINS"
```

```
      },
      "l2_ext_out" : {
        "pattern" : "DpANEOSFAD",
        "type" : "EXACT"
      }
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  }, {
    "l3_ext_out_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "KzeNdPHjbW",
        "type" : "ENDS_WITH"
      },
      "l3_ext_out" : {
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        "type" : "EXACT"
      }
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  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "aRwfpaOZBM",
        "type" : "NOT_CONTAINS"
      },
      "l2_ext_out" : {
        "pattern" : "LBSyQnYAJz",
        "type" : "NOT_CONTAINS"
      },
      "l2_ext_instp" : {
        "pattern" : "JSFGyxgMVg",
        "type" : "ENDS_WITH"
      }
    }
  }, {
    "l2_ext_instp_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "VfONTdlOqP",
        "type" : "BEGINS_WITH"
      },
      "l2_ext_out" : {
        "pattern" : "sfsTJFOFth",
        "type" : "BEGINS_WITH"
      },
      "l2_ext_instp" : {
        "pattern" : "oRTEuVrbBN",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
```

```
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "DXrZaFzday",
          "type" : "CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "uykUXAkyac",
          "type" : "EXACT"
        },
        "l3_ext_instp" : {
          "pattern" : "wmyesxtykS",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "YugWuqWjHn",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "ksRQHEZSPG",
          "type" : "BEGINS_WITH"
        },
        "l3_ext_instp" : {
          "pattern" : "QmxzDJfdwS",
          "type" : "BEGINS_WITH"
        }
      }
    } ]
  }, {
    "matches" : [ {
      "tenant_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "RXPQZkNSpZ",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "xHqmbKxaXX",
          "type" : "ENDS_WITH"
        },
        "application_profile" : {
          "pattern" : "ZahfbaUHsU",
          "type" : "CONTAINS"
```

```
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "nLvJiUoqQK",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "QxIKqitiNs",
            "type" : "EXACT"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "GDbnzddIAM",
            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "BFbHBEjRfp",
            "type" : "CONTAINS"
          },
          "application_epg" : {
            "pattern" : "LWHhYwmGUA",
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "qIGZIKSdAA",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "dpNnfgkNxw",
            "type" : "BEGINS_WITH"
          },
          "application_epg" : {
            "pattern" : "rhWkUFBrCy",
            "type" : "EXACT"
          }
        }
      }, {
        "vrf_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "SiPRvKgRiM",
```

```
          "type" : "CONTAINS"
        },
        "vrf" : {
          "pattern" : "NbfPQjajrV",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JvfuWwUhuN",
          "type" : "NOT_CONTAINS"
        },
        "bd" : {
          "pattern" : "gpZAPZjjAH",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "iOvNpaBdmS",
          "type" : "NOT_BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "PZggJYCFYd",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "qEIiuwIdhQ",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "QKWhvbirGj",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "WBpqvhsawT",
          "type" : "CONTAINS"
        },
        "l2_ext_out" : {
```

```
            "pattern" : "RSwdAPYwEA",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "mHYDrZkmpx",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "swrLrDAMKz",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l3_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "AlhnTOFFKs",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "COePdtcphg",
            "type" : "EXACT"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "PKwwpHVYlg",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "AjsdPuPUuz",
            "type" : "EXACT"
          },
          "l2_ext_instp" : {
            "pattern" : "HhrVJsIJYQ",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "RGCYEvoCgQ",
            "type" : "BEGINS_WITH"
          },
```

```
            "l2_ext_out" : {
              "pattern" : "wBpJnDrAOf",
              "type" : "ENDS_WITH"
            },
            "l2_ext_instp" : {
              "pattern" : "fTBHdoJaEP",
              "type" : "EXACT"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "JMbHKbwGiK",
              "type" : "CONTAINS"
            },
            "l3_ext_out" : {
              "pattern" : "adszgCumbE",
              "type" : "EXACT"
            },
            "l3_ext_instp" : {
              "pattern" : "hTELfbUPqc",
              "type" : "NOT_CONTAINS"
            }
          }
        } ]
      } ],
      "selector_type" : "OST_VRF"
    }
```

Example Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 36044

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-00a374e6-8be1-468f-9d79-a5c4dcf34b2a",
      "name" : "ecXTaksHlL",
      "description" :
"KFVzkynkdBxyTmeUhfodotJeiyAhVHFbpatOYxXcuBOCusIEbhEfCpfUjRhQimYWOrNngXZBXNtIVZovtcklI
efUeDYSLTmDohuw",
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            "type" : "NOT_CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "usRuXCOmwG",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "LUKTDvIgpC",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "klXiGizEbw",
            "type" : "CONTAINS"
          },
          "l2_ext_instp" : {
            "pattern" : "FZJcbUupth",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "WeyikufbRW",
            "type" : "ENDS_WITH"
          },
          "l3_ext_out" : {
            "pattern" : "YKYoWWjoax",
            "type" : "CONTAINS"
          },
          "l3_ext_instp" : {
```

```
                    "pattern" : "taDjANvXRV",
                    "type" : "NOT_BEGINS_WITH"
                  }
                }
              }, {
                "l3_ext_instp_match" : {
                  "object_attribute" : "DN",
                  "tenant" : {
                    "pattern" : "EdsKzWAljc",
                    "type" : "EXACT"
                  },
                  "l3_ext_out" : {
                    "pattern" : "pjfVcZjOAr",
                    "type" : "BEGINS_WITH"
                  },
                  "l3_ext_instp" : {
                    "pattern" : "STQlCSXHOL",
                    "type" : "BEGINS_WITH"
                  }
                }
              } ]
            }, {
              "matches" : [ {
                "tenant_match" : {
                  "object_attribute" : "DN",
                  "tenant" : {
                    "pattern" : "OzduFnkAIR",
                    "type" : "ENDS_WITH"
                  }
                }
              }, {
                "tenant_match" : {
                  "object_attribute" : "DN",
                  "tenant" : {
                    "pattern" : "pkOMpEedIp",
                    "type" : "NOT_BEGINS_WITH"
                  }
                }
              }, {
                "application_profile_match" : {
                  "object_attribute" : "DN",
                  "tenant" : {
                    "pattern" : "JDuzUvVoHC",
                    "type" : "NOT_BEGINS_WITH"
                  },
                  "application_profile" : {
                    "pattern" : "xkQNDKCkQS",
                    "type" : "ENDS_WITH"
                  }
                }
              }, {
```

```
      "application_profile_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "EeTQweYWHe",
          "type" : "NOT_CONTAINS"
        },
        "application_profile" : {
          "pattern" : "EaZzqYIgId",
          "type" : "CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "ZyUFFEoXVf",
          "type" : "CONTAINS"
        },
        "application_profile" : {
          "pattern" : "CWcuIhXsmQ",
          "type" : "CONTAINS"
        },
        "application_epg" : {
          "pattern" : "ZZAcnvuZxC",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "LzjCQMsXva",
          "type" : "NOT_BEGINS_WITH"
        },
        "vrf" : {
          "pattern" : "KGxIjJQUph",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "oamzQJLOMJ",
          "type" : "BEGINS_WITH"
        },
        "bd" : {
          "pattern" : "DpydTWCOIf",
          "type" : "EXACT"
        }
      }
```

```
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "huuGmRbwiB",
          "type" : "ENDS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "nMNrhpKMqn",
          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "rSRPjmmJAx",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "DpANEOSFAD",
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "KzeNdPHjbW",
          "type" : "ENDS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "knNSIPItsE",
          "type" : "EXACT"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "aRwfpaOZBM",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_out" : {
          "pattern" : "LBSyQnYAJz",
          "type" : "NOT_CONTAINS"
        },
        "l2_ext_instp" : {
          "pattern" : "JSFGyxgMVg",
          "type" : "ENDS_WITH"
        }
```

```
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "VfONTdlOqP",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "sfsTJFOFth",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "oRTEuVrbBN",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "DXrZaFzday",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "uykUXAkyac",
            "type" : "EXACT"
          },
          "l3_ext_instp" : {
            "pattern" : "wmyesxtykS",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "YugWuqWjHn",
            "type" : "NOT_CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "ksRQHEZSPG",
            "type" : "BEGINS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "QmxzDJfdwS",
            "type" : "BEGINS_WITH"
          }
        }
      } ]
    }, {
```

```
      "matches" : [ {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "RXPQZkNSpZ",
            "type" : "NOT_CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "xHqmbKxaXX",
            "type" : "ENDS_WITH"
          },
          "application_profile" : {
            "pattern" : "ZahfbaUHsU",
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "nLvJiUoqQK",
            "type" : "NOT_CONTAINS"
          },
          "application_profile" : {
            "pattern" : "QxIKqitiNs",
            "type" : "EXACT"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "GDbnzddIAM",
            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
            "pattern" : "BFbHBEjRfp",
            "type" : "CONTAINS"
          },
          "application_epg" : {
            "pattern" : "LWHhYwmGUA",
            "type" : "CONTAINS"
          }
        }
      }, {
        "application_epgmatch" : {
          "object_attribute" : "DN",
```

```
      "tenant" : {
        "pattern" : "qIGZIKSdAA",
        "type" : "NOT_CONTAINS"
      },
      "application_profile" : {
        "pattern" : "dpNnfgkNxw",
        "type" : "BEGINS_WITH"
      },
      "application_epg" : {
        "pattern" : "rhWkUFBrCy",
        "type" : "EXACT"
      }
    }
  }, {
    "vrf_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "SiPRvKgRiM",
        "type" : "CONTAINS"
      },
      "vrf" : {
        "pattern" : "NbfPQjajrV",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "JvfuWwUhuN",
        "type" : "NOT_CONTAINS"
      },
      "bd" : {
        "pattern" : "gpZAPZjjAH",
        "type" : "NOT_CONTAINS"
      }
    }
  }, {
    "bd_match" : {
      "object_attribute" : "DN",
      "tenant" : {
        "pattern" : "iOvNpaBdmS",
        "type" : "NOT_BEGINS_WITH"
      },
      "bd" : {
        "pattern" : "PZggJYCFYd",
        "type" : "BEGINS_WITH"
      }
    }
  }, {
    "l2_ext_out_match" : {
```

```
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "qEIiuwIdhQ",
              "type" : "NOT_BEGINS_WITH"
            },
            "l2_ext_out" : {
              "pattern" : "QKWhvbirGj",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l2_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "WBpqvhsawT",
              "type" : "CONTAINS"
            },
            "l2_ext_out" : {
              "pattern" : "RSwdAPYwEA",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
          "l3_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "mHYDrZkmpx",
              "type" : "ENDS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "swrLrDAMKz",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l3_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "AlhnTOFFKs",
              "type" : "ENDS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "COePdtcphg",
              "type" : "EXACT"
            }
          }
        }, {
          "l2_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "PKwwpHVYlg",
```

```
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "AjsdPuPUuz",
            "type" : "EXACT"
          },
          "l2_ext_instp" : {
            "pattern" : "HhrVJsIJYQ",
            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "RGCYEvoCgQ",
            "type" : "BEGINS_WITH"
          },
          "l2_ext_out" : {
            "pattern" : "wBpJnDrAOf",
            "type" : "ENDS_WITH"
          },
          "l2_ext_instp" : {
            "pattern" : "fTBHdoJaEP",
            "type" : "EXACT"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "JMbHKbwGiK",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "adszgCumbE",
            "type" : "EXACT"
          },
          "l3_ext_instp" : {
            "pattern" : "hTELfbUPqc",
            "type" : "NOT_CONTAINS"
          }
        }
      } ]
    } ],
    "selector_type" : "OST_VRF"
  },
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
```

```
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors"
      }, {
        "rel" : "getObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-00a374e6-8be1-468f-9d79-a5c4dcf34b2a"
      }, {
        "rel" : "getObjectSelectors",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors?queryParams={queryParams}"
      }, {
        "rel" : "generateObjectSelectorPreviewResults",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/preview?queryParams={queryParams}"
      }, {
        "rel" : "editObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-00a374e6-8be1-468f-9d79-a5c4dcf34b2a"
      }, {
        "rel" : "deleteObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-00a374e6-8be1-468f-9d79-a5c4dcf34b2a"
      } ],
      "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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
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_ou t_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l2_ext_ou t_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_ou t_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_ou t_match.l2_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_ou t_match.l2_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_ou t.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_ou t.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_ou t_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l3_ext_ou t_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_ou t_match.tenant.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_ou t_match.l3_ext_out.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_ou t_match.l3_ext_out.type	String	Operator for the matching pattern.
excludes[].matches[].l3_ext_ou t.pattern	String	The pattern matched by the operator.
excludes[].matches[].l3_ext_ou t.type	String	Operator for the matching pattern.
excludes[].matches[].l2_ext_in stp_match.object_attribute	String	String value of the object attribute.
excludes[].matches[].l2_ext_in stp_match.tenant.pattern	String	The pattern matched by the operator.
excludes[].matches[].l2_ext_in stp_match.tenant.type	String	Operator for the matching pattern.

Path	Type	Description
`excludes[].matches[].l2_ext_in stp_match.l2_ext_out.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l2_ext_in stp_match.l2_ext_out.type`	String	Operator for the matching pattern.
`excludes[].matches[].l2_ext_in stp_match.l2_ext_instp.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l2_ext_in stp_match.l2_ext_instp.type`	String	Operator for the matching pattern.
`excludes[].matches[].l2_ext_in stp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l2_ext_in stp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`excludes[].matches[].l2_ext_in stp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l2_ext_in stp_match.l3_ext_instp.type`	String	Operator for the matching pattern.
`excludes[].matches[].l3_ext_in stp_match.object_attribute`	String	String value of the object attribute.
`excludes[].matches[].l3_ext_in stp_match.tenant.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l3_ext_in stp_match.tenant.type`	String	Operator for the matching pattern.
`excludes[].matches[].l3_ext_in stp_match.l3_ext_out.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l3_ext_in stp_match.l3_ext_out.type`	String	Operator for the matching pattern.
`excludes[].matches[].l3_ext_in stp_match.l3_ext_instp.pattern`	String	The pattern matched by the operator.
`excludes[].matches[].l3_ext_in stp_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.

Path	Type	Description
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.
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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
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.
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.

Path	Type	Description
`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.
`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 a object selector with the specified ID is present.

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/object-selectors/2c0fc24b-
80df8f8a-7e56-4760-b85e-c695069cd405 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: 33892

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "uuid" : "2c0fc24b-80df8f8a-7e56-4760-b85e-c695069cd405",
      "name" : "uScMjojVRx",
      "description" :
"ZBAenTTdtlDOvJiBmerCPKdZPChOntUvbtsADVKkwgOVnOTTACleXZAyrqMuOAUkRfySamvZjQPcvNVWhSBpO
lQYGGLmubeZxnOn",
      "includes" : [ {
        "matches" : [ {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "gcjpqjBkqZ",
              "type" : "EXACT"
            }
          }
        }, {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "RCcYOThHNH",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "JZpdYlZMjD",
              "type" : "NOT_BEGINS_WITH"
            },
            "application_profile" : {
              "pattern" : "qHoZYIKeqk",
              "type" : "CONTAINS"
            }
          }
        }, {
          "application_profile_match" : {
            "object_attribute" : "DN",
            "tenant" : {
```

```json
          "pattern" : "oxoJwMyJYZ",
          "type" : "BEGINS_WITH"
        },
        "application_profile" : {
          "pattern" : "wqmQVLKgEU",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "application_epgmatch" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "UXwYIibOfh",
          "type" : "ENDS_WITH"
        },
        "application_profile" : {
          "pattern" : "BElStvtPhg",
          "type" : "NOT_CONTAINS"
        },
        "application_epg" : {
          "pattern" : "QfysAnitMs",
          "type" : "EXACT"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "EhsgMemnDC",
          "type" : "NOT_CONTAINS"
        },
        "vrf" : {
          "pattern" : "gDrBwAiVrE",
          "type" : "EXACT"
        }
      }
    }, {
      "vrf_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "SWIGfnbsoh",
          "type" : "EXACT"
        },
        "vrf" : {
          "pattern" : "YOauWzrkuF",
          "type" : "ENDS_WITH"
        }
      }
    }, {
      "bd_match" : {
        "object_attribute" : "DN",
```

```
            "tenant" : {
              "pattern" : "pKumEodori",
              "type" : "EXACT"
            },
            "bd" : {
              "pattern" : "OCxSAWGclV",
              "type" : "EXACT"
            }
          }
        }, {
          "bd_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "TsyDPYzSaY",
              "type" : "BEGINS_WITH"
            },
            "bd" : {
              "pattern" : "RMfkdkIxWo",
              "type" : "NOT_CONTAINS"
            }
          }
        }, {
          "l2_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "YCpsfFoWDx",
              "type" : "EXACT"
            },
            "l2_ext_out" : {
              "pattern" : "iDEGsiWBWa",
              "type" : "NOT_BEGINS_WITH"
            }
          }
        }, {
          "l2_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "pWcQGOYRrd",
              "type" : "ENDS_WITH"
            },
            "l2_ext_out" : {
              "pattern" : "GUDTiMIjds",
              "type" : "ENDS_WITH"
            }
          }
        }, {
          "l3_ext_out_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "mBtNlbbcsP",
              "type" : "EXACT"
```

```
        },
        "l3_ext_out" : {
          "pattern" : "hgROJCRvzt",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "hfEUoOTdGa",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "TQhyQEeVmn",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "uBEzCFNDFR",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "pFplpGCoTR",
          "type" : "ENDS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "NIvBjnpAvM",
          "type" : "NOT_CONTAINS"
        }
      }
    }, {
      "l3_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "jOXpMYZPKo",
          "type" : "NOT_CONTAINS"
        },
        "l3_ext_out" : {
          "pattern" : "XsmvEgxPyQ",
          "type" : "EXACT"
        },
        "l3_ext_instp" : {
          "pattern" : "lEMrLFhhES",
          "type" : "BEGINS_WITH"
        }
      }
    }, {
```

```
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "WNqiUSCmWX",
              "type" : "BEGINS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "OjaQawyEbr",
              "type" : "ENDS_WITH"
            },
            "l3_ext_instp" : {
              "pattern" : "ifmCuJHlXG",
              "type" : "BEGINS_WITH"
            }
          }
        } ]
      }, {
        "matches" : [ {
          "tenant_match" : {
            "object_attribute" : "DN",
            "tenant" : {
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      }
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    }, {
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          "type" : "EXACT"
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            "type" : "NOT_CONTAINS"
          },
          "l3_ext_instp" : {
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              "type" : "NOT_CONTAINS"
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            "application_epg" : {
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              "type" : "CONTAINS"
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              "type" : "ENDS_WITH"
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          }
        }, {
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            "object_attribute" : "DN",
            "tenant" : {
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              "type" : "EXACT"
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            "bd" : {
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              "type" : "EXACT"
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        }, {
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          "type" : "NOT_CONTAINS"
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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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        "l2_ext_out" : {
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          "type" : "NOT_BEGINS_WITH"
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      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "ENDS_WITH"
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        "l3_ext_out" : {
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        "l3_ext_out" : {
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        "l3_ext_instp" : {
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        "application_profile" : {
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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            "type" : "NOT_CONTAINS"
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            "l2_ext_out" : {
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            }
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              "pattern" : "TWWPaugbKJ",
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            },
            "l3_ext_instp" : {
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              "type" : "CONTAINS"
            }
          }
        }, {
          "l3_ext_instp_match" : {
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            "tenant" : {
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      }
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          "type" : "CONTAINS"
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        "application_profile" : {
          "pattern" : "sYRlkEqIgy",
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```
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              "type" : "NOT_CONTAINS"
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            }
          }
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            "tenant" : {
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              "type" : "NOT_BEGINS_WITH"
            },
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            "tenant" : {
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          "vrf_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "LVBJGTFGxH",
              "type" : "EXACT"
```

```
          },
          "vrf" : {
            "pattern" : "VYWxtUuaBG",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "nLKwJLPgCp",
            "type" : "NOT_CONTAINS"
          },
          "bd" : {
            "pattern" : "NuYpXhTokw",
            "type" : "CONTAINS"
          }
        }
      }, {
        "bd_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "hbmcocvLXJ",
            "type" : "CONTAINS"
          },
          "bd" : {
            "pattern" : "ijXiGzrIYr",
            "type" : "CONTAINS"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "zezUTFYIQR",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "sbXVpwmYTF",
            "type" : "NOT_BEGINS_WITH"
          }
        }
      }, {
        "l2_ext_out_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "DdyeBEuuyo",
            "type" : "CONTAINS"
          },
          "l2_ext_out" : {
            "pattern" : "ItgFBPgtgF",
```

```
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "VLGWcnFGqq",
          "type" : "NOT_BEGINS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "xBTHFbofUU",
          "type" : "EXACT"
        }
      }
    }, {
      "l3_ext_out_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "GuzxHYjrVr",
          "type" : "ENDS_WITH"
        },
        "l3_ext_out" : {
          "pattern" : "IgrxddhsXy",
          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "OcLBySNkAU",
          "type" : "NOT_BEGINS_WITH"
        },
        "l2_ext_out" : {
          "pattern" : "WBkqEuVXRU",
          "type" : "BEGINS_WITH"
        },
        "l2_ext_instp" : {
          "pattern" : "WaEhniSVmg",
          "type" : "EXACT"
        }
      }
    }, {
      "l2_ext_instp_match" : {
        "object_attribute" : "DN",
        "tenant" : {
          "pattern" : "JdDqHZxajq",
          "type" : "CONTAINS"
        },
        "l2_ext_out" : {
```

```
              "pattern" : "xUpBFhtxhJ",
              "type" : "NOT_BEGINS_WITH"
            },
            "l2_ext_instp" : {
              "pattern" : "DVDyWVwGme",
              "type" : "EXACT"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "KeidDwsSli",
              "type" : "CONTAINS"
            },
            "l3_ext_out" : {
              "pattern" : "gDqwnmmgrw",
              "type" : "EXACT"
            },
            "l3_ext_instp" : {
              "pattern" : "IxFWdGqecl",
              "type" : "CONTAINS"
            }
          }
        }, {
          "l3_ext_instp_match" : {
            "object_attribute" : "DN",
            "tenant" : {
              "pattern" : "GSTkwrFkxu",
              "type" : "ENDS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "HhvVgYrZji",
              "type" : "EXACT"
            },
            "l3_ext_instp" : {
              "pattern" : "yZoKtoBPPF",
              "type" : "NOT_BEGINS_WITH"
            }
          }
        } ]
      } ],
      "selector_type" : "OST_EPG"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-80df8f8a-7e56-4760-b85e-c695069cd405"
      }, {
```

```
          "rel" : "getObjectSelectors",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors?queryParams={queryParams}"
        }, {
          "rel" : "generateObjectSelectorPreviewResults",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/preview?queryParams={queryParams}"
        }, {
          "rel" : "saveObjectSelector",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors"
        }, {
          "rel" : "editObjectSelector",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-80df8f8a-7e56-4760-b85e-c695069cd405"
        }, {
          "rel" : "deleteObjectSelector",
          "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-80df8f8a-7e56-4760-b85e-c695069cd405"
        } ],
        "total_count" : 1,
        "has_more_data" : false
      }
    }
  }
```

Path Parameters

Table 30. /nae/api/v1/event-services/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.

Path	Type	Description
`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.
`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.

Path	Type	Description
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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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 Object Selectors

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

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 1106

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "uuid" : "2c0fc24b-9335dbbd-9402-460d-8380-6cb57db5e7a9",
      "name" : "NRcBcAFSrv",
      "description" :
"zeQUcFGxKMbDUhxVSieCAzWjrxEDoaxoTKIQmLOFQQJEVTqVLKefHYXYRAWBgtSdZWzOXIOWFTiaPnAOElgZK
avKkapPtWEeszQb",
      "associated_requirements" : [ ],
      "selector_type" : "OST_EPG"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "saveObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors"
      }, {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/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 Selector

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

Example Request

```
PUT /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/object-selectors/2c0fc24b-
4b3e63f6-9909-446c-bd44-9edd2f5577c1 HTTP/1.1
Content-Type: application/json
Accept: application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
Content-Length: 17788

{
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```
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```

```
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```

```json
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      }, {
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        }
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```

```
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  } ],
  "selector_type" : "OST_EPG"
}
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Example Response

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HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 22319

{
  "success" : true,
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    },
    "data" : {
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      "name" : "updated-name",
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```

```json
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        },
        "application_epg" : {
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          "type" : "BEGINS_WITH"
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        "application_epg" : {
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        "vrf" : {
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          "type" : "NOT_BEGINS_WITH"
        }
      }
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          "l2_ext_instp" : {
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            "type" : "CONTAINS"
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          "l3_ext_instp" : {
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            "type" : "NOT_CONTAINS"
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      } ]
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          }
        }
      }, {
        "tenant_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "ENDS_WITH"
          }
        }
      }, {
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            "type" : "BEGINS_WITH"
```

```
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        "application_profile" : {
          "pattern" : "SGbKPfwDTo",
          "type" : "EXACT"
        }
      }
    }, {
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        "object_attribute" : "DN",
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          "type" : "ENDS_WITH"
        },
        "application_profile" : {
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          "type" : "CONTAINS"
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        "application_epg" : {
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          "type" : "EXACT"
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        },
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          "type" : "ENDS_WITH"
        },
        "application_epg" : {
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        }
      }
    }, {
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          "type" : "BEGINS_WITH"
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        "vrf" : {
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          "type" : "EXACT"
        }
      }
    }, {
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        "tenant" : {
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        },
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          "type" : "NOT_BEGINS_WITH"
        }
      }
    }, {
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          "type" : "BEGINS_WITH"
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        "bd" : {
          "pattern" : "YWroaMHjEb",
          "type" : "EXACT"
        }
      }
    }, {
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          "type" : "EXACT"
        },
        "l2_ext_out" : {
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          "type" : "CONTAINS"
        }
      }
    }, {
      "l2_ext_out_match" : {
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        "tenant" : {
```

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        }
      }
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    }, {
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          "type" : "CONTAINS"
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          "type" : "ENDS_WITH"
        },
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```
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            "type" : "NOT_BEGINS_WITH"
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          "l3_ext_instp" : {
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            "type" : "BEGINS_WITH"
          }
        }
      }, {
        "l3_ext_instp_match" : {
          "object_attribute" : "DN",
          "tenant" : {
            "pattern" : "zUiHHBUPnC",
            "type" : "CONTAINS"
          },
          "l3_ext_out" : {
            "pattern" : "HWKcfPUXaJ",
            "type" : "NOT_BEGINS_WITH"
          },
          "l3_ext_instp" : {
            "pattern" : "FcvbNuwmza",
            "type" : "NOT_CONTAINS"
          }
        }
      } ]
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    "excludes" : [ {
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          "tenant" : {
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            "type" : "CONTAINS"
          }
        }
      }, {
        "application_profile_match" : {
          "object_attribute" : "DN",
          "tenant" : {
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            "type" : "BEGINS_WITH"
          },
          "application_profile" : {
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            "type" : "CONTAINS"
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        }
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```
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            "type" : "CONTAINS"
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        }
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        }
      }, {
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            "type" : "NOT_CONTAINS"
          }
        }
      }, {
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          "tenant" : {
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            "type" : "ENDS_WITH"
          },
          "bd" : {
            "pattern" : "riMLcnPaZi",
            "type" : "NOT_CONTAINS"
```

```
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          "l2_ext_instp" : {
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```
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            "type" : "ENDS_WITH"
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            "type" : "ENDS_WITH"
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            "type" : "CONTAINS"
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            "type" : "CONTAINS"
          }
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            "type" : "ENDS_WITH"
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          "l3_ext_out" : {
            "pattern" : "QGmWkgmQMT",
            "type" : "NOT_BEGINS_WITH"
          },
          "l3_ext_instp" : {
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            "type" : "EXACT"
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        }
      }
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```
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            "type" : "NOT_BEGINS_WITH"
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            "type" : "BEGINS_WITH"
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            "type" : "EXACT"
          },
          "vrf" : {
            "pattern" : "bLHyeVNETV",
            "type" : "EXACT"
          }
        }
      }, {
```

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```
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        "tenant" : {
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          "type" : "BEGINS_WITH"
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      "bd_match" : {
        "object_attribute" : "DN",
        "tenant" : {
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          "type" : "NOT_BEGINS_WITH"
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        "bd" : {
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          "type" : "ENDS_WITH"
        }
      }
    }, {
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        "tenant" : {
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          "type" : "BEGINS_WITH"
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          "type" : "NOT_CONTAINS"
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        "tenant" : {
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        "type" : "BEGINS_WITH"
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    }
  }
}, {
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    "object_attribute" : "DN",
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      "type" : "ENDS_WITH"
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    "l3_ext_out" : {
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      "type" : "CONTAINS"
    }
  }
}, {
  "l2_ext_instp_match" : {
    "object_attribute" : "DN",
    "tenant" : {
      "pattern" : "FwbObmPcof",
      "type" : "NOT_CONTAINS"
    },
    "l2_ext_out" : {
      "pattern" : "NNHgdOgkiG",
      "type" : "NOT_BEGINS_WITH"
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    "l2_ext_instp" : {
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      "type" : "BEGINS_WITH"
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  }
}, {
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    "object_attribute" : "DN",
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      "type" : "NOT_BEGINS_WITH"
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    "l3_ext_out" : {
      "pattern" : "UOCKbmeiZB",
      "type" : "NOT_CONTAINS"
    },
    "l3_ext_instp" : {
      "pattern" : "NVQmqTPBPe",
      "type" : "CONTAINS"
    }
```

```
          }
        }, {
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            "object_attribute" : "DN",
            "tenant" : {
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              "type" : "ENDS_WITH"
            },
            "l3_ext_out" : {
              "pattern" : "ZtytrUUpOR",
              "type" : "CONTAINS"
            },
            "l3_ext_instp" : {
              "pattern" : "ybyPqSsSRH",
              "type" : "BEGINS_WITH"
            }
          }
        } ]
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      "selector_type" : "OST_EPG"
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    "data_summary" : {
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        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-4b3e63f6-9909-446c-bd44-9edd2f5577c1"
      }, {
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        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-4b3e63f6-9909-446c-bd44-9edd2f5577c1"
      }, {
        "rel" : "getObjectSelectors",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors?queryParams={queryParams}"
      }, {
        "rel" : "generateObjectSelectorPreviewResults",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/preview?queryParams={queryParams}"
      }, {
        "rel" : "deleteObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors/2c0fc24b-4b3e63f6-9909-446c-bd44-9edd2f5577c1"
      } ],
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      "has_more_data" : false
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```

```
    }
  }
```

Path Parameters

Table 31. /nae/api/v1/event-services/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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
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.
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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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.
`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.

Path	Type	Description
`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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/model/aci-policy/compliance-requirement/object-selectors/2c0fc24b-
5f5386cf-344e-4ed6-9002-5f27f6b54d29 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: 499

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Object Selector successful",
    "data_summary" : {
      "links" : [ {
        "rel" : "saveObjectSelector",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/object-selectors"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 32. /nae/api/v1/event-services/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.

Path	Type	Description
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 Configuration Attributes Types

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

Example Request

```
GET /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 2335

{
  "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_OBJECT_ASSOCIATION_COUNT",
      "permitted_operators" : [ "EQUAL_TO", "AT_LEAST", "AT_MOST" ],
      "permitted_values" : [ ],
      "association_types" : [ "BD_TO_EPG" ]
    }, {
      "parameter" : "CCP_SUBNET",
      "permitted_operators" : [ "ALL", "NONE", "AT_LEAST_ONE" ],
      "permitted_values" : [ "shared", "private", "public" ]
    } ]
  },
  "data_summary" : {
    "links" : [ {
      "rel" : "self",
      "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/config-attribute-types?selector_type=OST_BD"
    } ],
    "total_count" : 1,
    "has_more_data" : false
  }
 }
}
```

Path Parameters

Table 33. /nae/api/v1/event-services/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.
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.
value.data.attribute_permitted_values[]association_types[]	Array	List of permitted association types.
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 /nae/api/v1/event-services/assured-networks/0667da12-8718-4385-9b77-
dbe0ca589d60/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: 923

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "attribute_permitted_values" : [ {
        "parameter" : "CCP_NAME",
        "permitted_operators" : [ "REGEX", "CONTAINS", "BEGINS_WITH", "ENDS_WITH",
"EXACT", "NOT_CONTAINS", "NOT_BEGINS_WITH", "NOT_ENDS_WITH" ]
      }, {
        "parameter" : "CCP_NAME_ALIAS",
        "permitted_operators" : [ "REGEX", "CONTAINS", "BEGINS_WITH", "ENDS_WITH",
"EXACT", "NOT_CONTAINS", "NOT_BEGINS_WITH", "NOT_ENDS_WITH" ]
      } ]
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/event-services/assured-
networks/0667da12-8718-4385-9b77-dbe0ca589d60/model/aci-policy/compliance-
requirement/requirements/naming-attribute-types?selector_type=OST_BD"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 34. /nae/api/v1/event-services/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.

Path	Type	Description
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.
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.
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.

Get Object Selector Preview

A GET request returns an object selector preview.

Example Request

```
POST /nae/api/v1/event-services/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" : "yHALjvcLQR",
  "description" :
"jIWBPvOAPYpFpbIafwwTlNHCoSdXmcsiEYfSigbxDInFByYGSMgyHDClfhZihVdexUTjnqupcbkyCZnPAAbPW
bhSLTzqeTYeSwGn",
  "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: 544

{
  "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/nae/api/v1/event-services/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 35. /nae/api/v1/event-services/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.

Path	Type	Description
`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.

Pre-Change Analysis Operations

Use the APIs in this section to create, read, or delete a pre-change analysis job based on a JSON/XML configuration file.

These APIs require an active authenticated API session.

Get a Pre-Change Analysis Job

A `GET` request returns a record of a pre-change analysis job if a pre-change analysis job with the specified job ID is present.

Example Request

```
GET /nae/api/v1/config-services/prechange-analysis/5ea8a79c16207c305a27be9e 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: 1331

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : {
      "name" : "nSurmfSBVb",
      "description" : "ULXustvHLK",
      "job_id" : "5ea8a79c16207c305a27be9e",
      "fabric_uuid" : "ba17848f-c36b-4cec-b150-61daaadd4ee8",
      "base_epoch_id" : "123",
      "analysis_status" : "COMPLETED",
      "submitter_name" : "OmkQcpCseg",
      "analysis_schedule_id" : "rjukeWaLOl",
      "base_epoch_collection_timestamp" : 1588111260,
      "base_epoch_collection_time_rfc3339" : "1588111260",
      "analysis_submission_time" : 1588111260,
      "submitter_domain" : "lInZAjDJjh",
      "stop_analysis" : false,
      "epoch_delta_job_id" : "23456789",
      "enable_download" : true,
      "allow_unsupported_object_modification" : true,
      "uploaded_file_name" : "WnMiMzShsk",
      "pre_change_epoch_uuid" : "2345678",
      "error_log" : "23456789",
      "pre_change_epoch_generated_by_appliance_version" : "5.0.0"
    },
    "data_summary" : {
      "links" : [ {
        "rel" : "get list of Pre Change jobs",
        "href" : "https://localhost/nae/api/v1/config-services/prechange-
analysis?queryParams={queryParams}&fabric_id=ba17848f-c36b-4cec-b150-61daaadd4ee8"
      } ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 36. /nae/api/v1/config-services/prechange-analysis/{uuid}

Parameter	Description
uuid	Unique identifier of the pre-change analysis job.

Response Fields

Path	Type	Description
`value.data.name`	`String`	Name of the pre-change analysis job.
`value.data.description`	`String`	Description of the pre-change analysis job.
`value.data.fabric_uuid`	`String`	Assurance group uuid.
`value.data.base_epoch_id`	`String`	Epoch uuid on which the pre-change analysis job will be executed.
`value.data.stop_analysis`	`Boolean`	If True, stop the currently running analysis and start the pre-change analysis job.
`value.data.allow_unsupported_object_modification`	`Boolean`	If True, remove all unsupported objects by pre-change analysis and proceed with the job execution.
`value.data.uploaded_file_name`	`String`	Name of the uploaded json/xml file.
`value.data.error_log`	`String`	Error message if the pre-change analysis job fails.
`value.data.job_id`	`String`	UUID of the pre-change analysis job.
`value.data.analysis_status`	`String`	Status of the pre-change analysis job.
`value.data.submitter_name`	`String`	User who created the pre-change analysis job.
`value.data.analysis_schedule_id`	`String`	Analysis scheduler uuid of the pre-change analysis job.
`value.data.base_epoch_collection_timestamp`	`Number`	Time which base epoch of the pre-change analysis job was collected.
`value.data.base_epoch_collection_time_rfc3339`	`String`	UTC Time which base epoch of the pre-change analysis job was collected.
`value.data.analysis_submission_time`	`Number`	Start time of the pre-change analysis job.
`value.data.submitter_domain`	`String`	Domain that the user who created the pre-change analysis job belongs to.
`value.data.enable_download`	`Boolean`	Configuration for the pre-change analysis job can be downloaded.

Path	Type	Description
value.data.epoch_delta_job_id	String	UUID of the epoch delta between the pre-change analysis epoch and base epoch.
value.data.pre_change_epoch_uuid	String	UUID of the pre-change analysis epoch.
value.data.pre_change_epoch_generated_by_appliance_version	String	NAE version that generated the pre-change analysis epoch.
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 All Pre-Change Analysis Jobs

A GET request returns the records of all pre-change analysis jobs.

Example Request

```
GET /nae/api/v1/config-services/prechange-analysis?fabric_id=a6da404a-1576-43c7-a29a-
7a3a199b15af 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: 1420

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : [ {
      "name" : "foCPqBtKzE",
      "description" : "VhBjnYIRVU",
      "job_id" : "5ea8a79c16207c305a27be9e",
      "fabric_uuid" : "a6da404a-1576-43c7-a29a-7a3a199b15af",
      "base_epoch_id" : "123",
      "analysis_status" : "COMPLETED",
      "submitter_name" : "HNNCMbCKgX",
      "analysis_schedule_id" : "xliRAaSrpW",
      "base_epoch_collection_timestamp" : 1588111260,
      "base_epoch_collection_time_rfc3339" : "1588111260",
      "analysis_submission_time" : 1588111260,
      "submitter_domain" : "uXeHrNAKKb",
      "stop_analysis" : false,
      "epoch_delta_job_id" : "23456789",
      "enable_download" : true,
      "allow_unsupported_object_modification" : true,
      "uploaded_file_name" : "WsGumlEKmC",
      "pre_change_epoch_uuid" : "2345678",
      "error_log" : "23456789",
      "pre_change_epoch_generated_by_appliance_version" : "5.0.0"
    } ],
    "data_summary" : {
      "links" : [ {
        "rel" : "self",
        "href" : "https://localhost/nae/api/v1/config-services/prechange-
analysis?fabric_id=a6da404a-1576-43c7-a29a-7a3a199b15af&fabric_id=a6da404a-1576-43c7-
a29a-7a3a199b15af"
      } ],
      "total_count" : 1,
      "has_more_data" : false,
      "page_size" : 50,
      "current_page_number" : 0,
      "total_page_count" : 1
    }
  }
}
```

Request Parameters

Parameter	Description
`fabric_id`	Unique identifier of the ACI fabric.
`$page`	Page number to fetch. Starts from page 0.
`$size`	Page size to fetch. Valid value is 1-200 (inclusive).
`$sort`	Specify the sorting order for the returned requirements. A comma-separated list of the following possible values can be specified: [analysis_submission_time, name, submitter_name]. Prefix the value with '-' for descending order. Example: $sort=,-analysis_submission_time
`$filter`	Specify the filter criteria for the jobs. A comma-separated list of the the following possible keys can be specified: [submitter_name, name, submitter_name, analysis_status, pre_change_epoch_UUID]. Example: $filter=analysis_submission_time

Response Fields

Path	Type	Description
`value.data[].name`	String	Name of the pre-change analysis job.
`value.data[].description`	String	Description of the pre-change analysis job.
`value.data[].fabric_uuid`	String	Assurance group uuid.
`value.data[].base_epoch_id`	String	Epoch uuid on which the pre-change analysis job will be executed.
`value.data[].stop_analysis`	Boolean	If True, stop the currently running analysis and start the pre-change analysis job.
`value.data[].allow_unsupported_object_modification`	Boolean	If True, remove all unsupported objects by pre-change analysis and proceed with the job execution.
`value.data[].uploaded_file_name`	String	Name of the uploaded json/xml file.
`value.data[].error_log`	String	Error message if the pre-change analysis job fails.
`value.data[].job_id`	String	UUID of the pre-change analysis job.
`value.data[].analysis_status`	String	Status of the pre-change analysis job.

Path	Type	Description
`value.data[].submitter_name`	`String`	User who created the pre-change analysis job.
`value.data[].analysis_schedule_id`	`String`	Analysis scheduler uuid of the pre-change analysis job.
`value.data[].base_epoch_collection_timestamp`	`Number`	Time which base epoch of the pre-change analysis job was collected.
`value.data[].base_epoch_collection_time_rfc3339`	`String`	UTC Time which base epoch of the pre-change analysis job was collected.
`value.data[].analysis_submission_time`	`Number`	Start time of the pre-change analysis job.
`value.data[].submitter_domain`	`String`	Domain that the user who created the pre-change analysis job belongs to.
`value.data[].enable_download`	`Boolean`	Configuration for the pre-change analysis job can be downloaded.
`value.data[].epoch_delta_job_id`	`String`	UUID of the epoch delta between the pre-change analysis epoch and base epoch.
`value.data[].pre_change_epoch_uuid`	`String`	UUID of the pre-change analysis epoch.
`value.data[].pre_change_epoch_generated_by_appliance_version`	`String`	NAE version that generated the pre-change analysis epoch.
`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.
`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.

Delete a Pre-Change Analysis Job

A DELETE request deletes a pre-change analysis job if a pre-change analysis job with the specified ID is present.

Example Request

```
DELETE /nae/api/v1/config-services/prechange-analysis/5ea8a79c16207c305a27be9e
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: 276

{
  "success" : true,
  "value" : {
    "namespaces" : {
      "default" : "https://www.cisco.com/api/schema"
    },
    "data" : "Delete Pre-change Job successful",
    "data_summary" : {
      "links" : [ ],
      "total_count" : 1,
      "has_more_data" : false
    }
  }
}
```

Path Parameters

Table 37. /nae/api/v1/config-services/prechange-analysis/{uuid}

Parameter	Description
uuid	Unique identifier of the pre-change analysis job.

Response Fields

Path	Type	Description
`value.data`	`String`	Information message stating whether the action was successful.
`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.

Get Pre-Change Analysis Configuration JSON

A `GET` request downloads a configuration JSON of a given pre-change analysis job if a pre-change analysis job with the specified ID is present.

Example Request

```
GET /nae/api/v1/config-services/prechange-analysis/download-
configs/5ea8a79c16207c305a27be9e HTTP/1.1
Content-Type: application/json
Accept: application/octet-stream, application/json
X-NAE-CSRF-TOKEN: CANDID_CSRF_TOKEN_HEADER
Host: localhost:8080
```

Example Response

```
HTTP/1.1 200 OK
Content-disposition: attachment;filename=5ea8a79c16207c305a27be9e.tar.gz
Content-Type: application/octet-stream
Content-Length: 5

hello
```

Path Parameters

Table 38. /nae/api/v1/config-services/prechange-analysis/download-configs/{uuid}

Parameter	Description
`uuid`	Unique identifier of the pre-change analysis job.

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 /nae/api/v1/whoami
   POST /nae/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 /nae/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 /nae/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 /nae/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 /nae/api/v1/event-services/epochs?$epoch_id={EPOCH-ID}
or
GET /nae/api/v1/event-services/epochs?$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 /nae/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 /nae/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 /nae/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/nae/api/v1/event-services/epochs?$page=0&$size=1"
  }, {
    "rel" : "self",
    "href" : "https://localhost/nae/api/v1/event-services/epochs?$page=0&$size=1"
  }, {
    "rel" : "next",
    "href" : "https://localhost/nae/api/v1/event-services/epochs?$page=1&$size=1"
  }, {
    "rel" : "last",
    "href" : "https://localhost/nae/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 /nae/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 /nae/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 /nae/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.

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

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>/nae/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.