

RESTful API v4.16 User Guide

	Tful API v4.16 User Guide	
	Overview	
	Version	
	Domain Filters	
	Domain Filter Details	
	Event Filters	
	Event Filter Details	
	Incident Filters	
	Incident Filter Details	
	Events	
	Event Types	
	Incident Details	
	Incident Types	
	Inventory Summary	
	Inventory Details	
	Auto Discovery Status	
1.17	Auto Discovery Profiles	. 82
	Auto Discovery Profile	
1.19	Auto Discovery Results	. 99
1.20	Auto Discovery Result	. 107
	Product Info	
	Servers	
	Servers Details	
	User Groups	
	User Group Details	
	User Group Permissions	
	Users	
	User Details	
	User's Groups	
	Global User Settings	
	Global Password Complexity Settings	
1.33	View List	. 144
	View Details	
	View Objects	
1.36	Object Attributes	. 166
	Object Attribute Details	
	Object Ports	
	Object Associations	
	Association Details	
	Configuration Management	. 186
	Port Management	400
	Zones	. 194
1.44	Zone Details	. 194 . 199
1.44 1.45	Zone Details	. 194 . 199 . 205
1.44 1.45 1.46	Zone Details IP SLA Management IP SLA Creators	. 194. 199. 205. 214
1.44 1.45 1.46 1.47	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers	. 194. 199. 205. 214. 221
1.44 1.45 1.46 1.47 1.48	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface	. 194. 199. 205. 214. 221. 224
1.44 1.45 1.46 1.47 1.48 1.49	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating	. 194 . 199 . 205 . 214 . 221 . 224 . 228
1.44 1.45 1.46 1.47 1.48 1.49 1.50	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering	. 194 . 199 . 205 . 214 . 221 . 224 . 228 . 231
1.44 1.45 1.46 1.47 1.48 1.50 1.51	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information	. 194 . 199 . 205 . 214 . 221 . 224 . 228 . 231 . 235 . 239
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow	. 194 . 199 . 205 . 214 . 221 . 224 . 231 . 235 . 239
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 235 . 239 . 241
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244 . 249 . 254
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244 . 249 . 254 . 260
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 235 . 239 . 241 . 244 . 249 . 254 . 260 . 262
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 235 . 241 . 244 . 249 . 254 . 260 . 262 . 266
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.58 1.60	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks Cisco DNA Center Webhooks	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 249 . 254 . 260 . 262 . 266 . 267
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.58 1.60 1.61	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks Cisco DNA Center Webhooks Raise Webhook Events on Cisco DNA Centers	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 249 . 254 . 260 . 262 . 266 . 267 . 268
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.58 1.60 1.61	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks Cisco DNA Center Webhooks Raise Webhook Events on Cisco DNA Centers Manage Cisco DNA Center Webhooks	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244 . 249 . 254 . 260 . 262 . 266 . 267 . 268
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.60 1.61 1.62 1.63	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks Cisco DNA Center Webhooks Raise Webhook Events on Cisco DNA Centers Manage Cisco DNA Center Webhooks Cisco DNA Centers	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244 . 260 . 262 . 266 . 267 . 268 . 271
1.44 1.45 1.46 1.47 1.48 1.50 1.51 1.52 1.53 1.54 1.55 1.56 1.57 1.60 1.61 1.62 1.63	Zone Details IP SLA Management IP SLA Creators IP SLA Pollers Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow Flow Data - Time Series History Maintenance List Maintenance Details Meraki Cloud Controllers Shared Secret Key Meraki Webhooks Cisco DNA Center Webhooks Raise Webhook Events on Cisco DNA Centers Manage Cisco DNA Center Webhooks	. 194 . 199 . 205 . 214 . 221 . 224 . 235 . 239 . 241 . 244 . 249 . 254 . 260 . 262 . 266 . 267 . 268 . 271 . 272 . 273

1.66	Service Detail	291
1.67	OS Services Summary	298
1.68	OS Services Detail	306
1.69	User Defined REST Pollers	310
1.70	User Defined REST Poller Details	331
1.71	Testing User Defined REST Pollers	340
1.72	Custom Webhook Groups	343
1.73	Custom Webhook Group Details	347
1.74	Custom Webhook Rules	351
1.75	Custom Webhook Rule Details	355
1.76	Custom Webhook Endpoints	359
1.77	Custom Webhook Endpoint Details by Group	361
	Custom Webhook Endpoint Details	
1.79	Custom Webhook Events	366
1.80	Custom Webhook Event Details	368
1.81	Custom Webhook Event Details by Group	370
1.82	List Custom Webhook Payloads	372
1.83	Create Custom Webhook Payloads	374



RESTful API v4.16 User Guide

Version history

Version	Date	Edits
4.0	January 8, 2019	 Domain Filter Details Inventory Details Product Info Servers Servers Details Data Access Interface Data Access Templates Management – Listing and Creating Data Access Templates Management – Operations on a Single Template Data Access – Export Triggering Flow Data - Listing Devices with Stored Flow Information Flow Data - Listing Applications Supporting Flow
4.1	March 14, 2019	 User Details Global User Settings Global Password Complexity Settings Inventory Details
4.2	May 29, 2019	 Auto Discovery Status Auto Discovery Profiles Auto Discovery Profile
4.3	June 27, 2019	User Details
4.4	July 22, 2019	 Inventory Summary Servers Servers Details Zone Details Object Attribute Details



4.5	January 17, 2020	 Overview - OPTIONS Method Auto Discovery Profiles Auto Discovery Profile View List View Details Maintenance List Maintenance Details Flow Data - Time Series History Meraki Cloud Controllers Shared Secret Key Meraki Webhooks
4.6	August 28, 2020	 Cisco DNA Center Webhooks Manage Cisco DNA Center Webhooks Cisco DNA Centers Raise Webhook Events on Cisco DNA Centers View Details Inventory Summary Data Access Interface User's Groups Version
4.7	October 2, 2020	Inventory Details
4.8	January 7, 2021	 Inventory Summary Inventory Details Auto Discovery Profiles Auto Discovery Profile
4.9	April 22, 2021	 Credential Management Auto Discovery Status Auto Discovery Profiles Auto Discovery Profile Auto Discovery Results Auto Discovery Result
4.10	July 23rd, 2021	 Data Access Interface Data Access - Export Triggering
4.11	October 6th, 2021	 Services Hierarchy Service Detail OS Services Summary OS Services Detail Events



		• • • • • • • • • • • • • • • • • • • •
4.12	December 15th, 2021	• Events
4.13	April 15th, 2022	 User Defined REST Pollers User Defined REST Poller Details Testing User Defined REST Pollers Custom Webhook Groups Custom Webhook Group Details Custom Webhook Rules Custom Webhook Rule Details Custom Webhook Endpoints Custom Webhook Endpoint Details by Group Custom Webhook Events Custom Webhook Event Details by Group List Custom Webhook Payloads Create Custom Webhook Payloads Events
4.14	July 15th, 2022	 Custom Webhook Group Details Custom Webhook Endpoint Details Custom Webhook Event Details Inventory Summary Meraki Webhooks
4.15	October 10th, 2022	 Auto Discovery Profile Auto Discovery Results User Defined REST Pollers
4.16	November 8th, 2022	View Objects



Overview

- Introduction
- OPTIONS Method
- Multi-Server Resources
- Versioning
- Authentication

Introduction

This document describes the RESTful API provided by Entuity. The API is accessible via HTTP or HTTPS protocol, dependent on the webserver configuration, and is exposed via URLs under the /api path. For example, you can access the 'info' resource via https://myserver/api/info or https://myserver/api/info depending on whether or not you have configured Entuity for HTTPS access.

Each resource may support one or more of the following HTTP methods: GET, POST, PUT, DELETE, OPTIONS. Each resource may require input and may produce output. Please see the following documentation for each resource for details on supported methods and input/output details.

Resources can expect input in different forms:

- Query parameters, e.g. https://myserver/api/someResource?param=value. Note that 'value' in the example URL must be URL encoded (e.g. 'hello world' must be encoded as 'hello%20world'). For the list of characters that must be encoded, see: https://www.w3schools.com/tags/ref_urlencode.asp.
- HTTP content (Entity). The Entity may be represented as either XML (content-type:application/xml) or JSON (content-type:application/json). Note that when sending entity in the request, you must specify the "content-type" header. If using the curl tool you can use the –H argument to specify the header, e.g. curl – H "content-type:application/json"

Most, but not all, resources will return resource representations in either XML or JSON. You can specify which representation by supplying a 'media' query parameter with a value of 'xml' or 'json', e.g. https://myserver/api/info? media=xml. Alternatively, you can specify this using a header field, e.g. Accept: application/xml or Accept: application/json.

Each response has a response code, indicating a success/failure of the request. These are standard HTTP specification response codes:

- 200-299: indicates success.
- 300-399: indicates redirection: clients should repeat request at redirected location.
- 400-499: indicates a problem with a client request.
- 500-599: indicates a problem on a server side.

OPTIONS Method

You can get some simple information on a resource's supported methods by issuing an OPTIONS method against that resource, or you can find all available resources by issuing an OPTIONS method against a root resource. For example, by using curl:

 curl –X OPTIONS https://myserver/api/. This will return an ALLOW header containing the supported methods.



Multi-Server Resources

By default, HTTP methods operate on the resources local to the server you are speaking to. However, if the server you are speaking to has remote servers configured, you can work with any of them. You can qualify the server you want to be working with by using a query parameter 'serverld', e.g. https://mycentralserver/api/info? serverld=long-id-of-the-remote-server.

Versioning

All resources accessible via /api/* can also be accessed via /api/v2/*. Clients who wish to remain compatible with future versions of Entuity should use resources under the specific version: /api/v2/*. Resources without a version specifier under /api/* will contain the latest resource implementations, and may be changed in future releases.

Please note that resources under the specific version /api/v2/* may still be changed with new Entuity versions /patches. However, any changes will be limited to compatible changes that are unlikely to break any integrations making use of the API.

Compatible changes include:

- · addition of new authentication methods.
- addition of new resources.
- addition of new fields in resource representations returned.
- · requiring fewer inputs.
- applying fewer constraints on input.

Incompatible change will be added with a new version number, so the following URLs will be available:

- /api/v1/* will use version 1 of the API.
- /api/v2/* will use version 2 of the API which will include changes that are not compatible with previous versions.
- /api/* Will always track the latest version of the API.

Resources in this document are described using URLs relative to their version base, e.g. resource 'info' can be accessed as /api/v2/info.

Please see the Version section in this document so as to check the latest version of the API.

Authentication

Entuity supports basic HTTP authentication method (RFC 2617). Basic HTTP authentication is widely supported. Please note that basic HTTP authentication is insecure when used without SSL, because passwords are sent as clear text). **Therefore, Entuity recommends using the API over HTTPS**.

If using the curl tool, you can supply '-u username:password' arguments to provide authentication details.

For performance reasons, authentication results are cached on the server for 5 minutes after they are last used.

Note that you can authenticate with any Entuity user and the resources are protected by using the Entuity permission model: Users will only be able to access and modify resources that they have permission to access.



Version

Shows the version of the RESTful API in use.

URL: version

- Methods Summary
- GET Method detail
 - Examples

Methods Summary

• GET Method - shows the version of the RESTful API in use.

GET Method detail

Shows the version of the RESTful API in use.

Examples

Note, you can specify a particular version of the API function to use in the URL. This feature may help reduce maintenance with third party integrations that use API functions that may change in later releases.

E.g. to specify a particular version of the API to use, place the version number in the URL:



api/{version}/function



Domain Filters

Lists the filter id, name and serverld information of available domain filters.

URL: domainFilters (example https://localhost/api/domainFilters?media=json)

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists available domain filters.
- POST Method creates new domain filter.

GET Method detail

Lists available domain filters.

Response

Response includes a list of domain filters. Each domain filter has the following attributes:

Name	Description
id	domain filter ID unique to the server.
name	domain filter name.
serverId	Entuity Server ID on which resource resides.

INPUT curl -u admin:admin https://localhost/api/domainFilters?media=json



```
OUTPUT

{
    "items" : [ {
        "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
        "id" : "1",
        "name" : "All Objects"
    }, {
        "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
        "id" : "2",
        "name" : "Infrastructure Only"
    } ],
    "count" : 2
}
```

POST Method details

Creates a new domain filter.

Request

Name	Description
name	filter name.
rules	the array of rules defining a filter.

Response

Name	Description
------	-------------



name	filter name.
systemFilter	whether the filter is a system filter.
rules	The array of rules defining a filter.

```
INPUT
         curl -u admin:admin https://localhost/api/domainFilters?media=json -X
         POST -H "content-type:application/json" -d \
           "name" : "A",
           "rules" : [ {
             "SRCTYPE" : "4",
             "DEVNAME" : "Two",
             "ZONENAME" : "None"
           } ]
         }'
OUTPUT {
          "name" : "A",
          "systemFilter" : false,
          "rules" : [ {
             "SRCTYPE" : "4",
            "DEVNAME" : "Two",
            "ZONENAME" : "None"
          } ]
        }
```



```
INPUT
        curl -u admin:admin https://localhost/api/domainFilters?media=xml -X
        POST -H "content-type:application/xml" -d \
         '<domainFilterInfo systemFilter="false" name="B">
           <rules>
             <entries>
                <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">SRCTYPE</key>
                <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">4<
        /value>
              </entries>
             <entries>
                <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">DEVNAME</key>
                <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Two<
        /value>
              </entries>
              <entries>
                <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">ZONENAME</key>
                <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">None<
        /value>
             </entries>
           </rules>
        </domainFilterInfo>'
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <domainFilterInfo systemFilter="false" name="B">
             <rules>
                  <entries>
                      <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
         /XMLSchema-instance">DEVNAME</key>
                      <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Two<
         /value>
                  </entries>
                  <entries>
                      <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">SRCTYPE</key>
                      <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">4<
        /value>
                  </entries>
             </rules>
        </domainFilterInfo>
```



Domain Filter Details

Represents a set of operations on a particular domain filter.

URL: domainFilters/{filterId}

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- DELETE Method details
 - Request
 - Response
 - Examples

Methods summary

- GET Method shows detailed information about the filter.
- PUT Method modifies the parameters of the filter.
- DELETE Method deletes the filter.

GET Method details

Shows detailed information about the selectedomain filter.

Response

General parameters:

Name	Description
name	domain filter name.
systemFilter	whether the filter is a system filter.
rules	array of rules defining a filter, as per Rule definition section below.

Rule definitions - a single rule may contain at most one of the following parameters, the exception being that SRCTYPE has to be present in the rule definition:

Name	Description
------	-------------



SRCTYPE	 source type, one of the following (case-insensitive): PORT DEVICE VLAN APPLICATION SERVICE
DEVTYPE	device type to which this filter refers.
DEVNAME	name of an object (port, device, application etc).
ZONENAME	name of a zone.
IPLE	IP low-end, used for defining IP ranges.
IPHE	IP high-end, used for defining IP ranges.
MANAGEMENT_ONLY	Management IP Only.

```
INPUT curl -u admin:admin https://localhost/api/domainFilters/1002?media=json

OUTPUT {
    "name" : "A",
    "systemFilter" : false,
    "rules" : [ {
        "SRCTYPE" : "DEVICE",
        "DEVNAME" : "Two",
        "ZONENAME" : "All"
        } ]
    }
}
```

```
INPUT curl -u admin:admin https://localhost/api/domainFilters/1002?media=xml
```



```
OUTPUT
        <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
         <domainFilterInfo systemFilter="false" name="A">
           <rules>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
         instance">ZONENAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema wmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">All<
         /value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
        instance">DEVNAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Two<
         /value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
        instance">SRCTYPE</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">DEVICE<
         /value>
             </entries>
           </rules>
         </domainFilterInfo>
```

PUT Method details

Modifies the selected domain filter.

Request

Name	Description
name	Filter name
rules	The array of rules defining a filter, as per Rule Definition section above.

Response

The modified filter, as the detailed GET method would return it (see Rule Definition section above).



```
INPUT
         curl -u admin:admin https://localhost/api/domainFilters/1002?media=json -
         X PUT -H "content-type:application/json" -d \
           "name" : "B",
           "rules" : [ {
             "SRCTYPE" : "APPLICATION",
             "DEVTYPE" : "158",
             "ZONENAME" : "None"
           } ]
         }'
OUTPUT
          "name" : "B",
          "rules" : [ {
             "SRCTYPE" : "APPLICATION",
             "DEVTYPE" : "158",
             "ZONENAME" : "None"
          } ]
        }
```



```
INPUT
        curl -u admin:admin https://localhost/api/domainFilters/1002?media=xml -
        X PUT -H "content-type:application/xml" -d \
         '<domainFilterInfo systemFilter="false" name="B">
           <rules>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">SRCTYPE</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
        >APPLICATION</value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">ZONENAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">None<
        /value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">DEVNAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Two<
        /value>
             </entries>
           </rules>
        </domainFilterInfo>'
```



```
OUTPUT
        <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
         <domainFilterInfo systemFilter="false" name="B">
           <rules>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
         instance">ZONENAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">None<
         /value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
        instance">DEVNAME</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Two<
         /value>
             </entries>
             <entries>
               <key xsi:type="opCode" xmlns:xsi="https://www.w3.org/2001/XMLSchema-</pre>
        instance">SRCTYPE</key>
               <value xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre>
         /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
         >APPLICATION</value>
             </entries>
           </rules>
         </domainFilterInfo>
```

DELETE Method details

Deletes the selected domain filter.

Request

No additional parameters needed.

Response

Gives the message "OK" if operation was successful. Otherwise, gives an error description.



```
INPUT
    curl -u admin:admin https://localhost/api/domainFilters/1002?media=json -
    X DELETE

OUTPUT {
        "message" : "OK"
     }
```



Event Filters

Lists minimal information about available event filters.

URL: eventFilters

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists available event filters.
- POST Method creates a new event filter.

GET Method detail

Lists available event filters.

Response

Response includes a list of event filters. Each event filter has the following attributes:

Name	Description
id	Event filter id unique to the server
name	Event filter name
serverId	Entuity Server Id on which resource resides

INPUT curl -u admin:admin https://localhost/api/eventFilters?media=json	
-------------------------------------------------------------------------	--



POST Method details

Creates a new event filter.

Request

Event filter parameters

Name	Description
name	Filter name



selectedNa	The array of filter names	
passIP	Whether the filter should include devices not under management	1

Response

The newly created entry, as detailed GET method would return it.

Name	Description
name	Filter name
selectedNames	The array of filter names
systemFilter	Whether the filter is a system filter
passIP	

```
INPUT
         curl -u admin:admin https://localhost/api/eventFilters?media=json -X
         POST -H "content-type:application/json" -d \
           "name" : "A",
           "selectedNames" : [
             "AvailMonitor Application Unavailable",
             "AvailMonitor High Latency Reaching Application Cleared"
           "passIP" : true
         }'
OUTPUT
          "name" : "A",
          "selectedNames" : [
            "AvailMonitor Application Unavailable",
            "AvailMonitor High Latency Reaching Application Cleared"
          "systemFilter" : false,
          "passIP" : true
        }
```



```
INPUT
         curl -u admin:admin https://localhost/api/eventFilters?media=xml -X POST
         -H "content-type:application/xml" -d \
         '<eventFilterInfo systemFilter="false" passIP="true" name="A">
           <selectedNames>
             <filterName>AvailMonitor Application Unavailable</filterName>
             <filterName>AvailMonitor High Latency Reaching Application Cleared<</pre>
         /filterName>
           </selectedNames>
         </eventFilterInfo>'
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <eventFilterInfo systemFilter="false" passIP="true" name="A">
          <selectedNames>
            <filterName>AvailMonitor Application Unavailable</filterName>
            <filterName>AvailMonitor High Latency Reaching Application Cleared
        /filterName>
          </selectedNames>
        </eventFilterInfo>
```



Event Filter Details

Represents a set of operations on a particular event filter.

URL: eventFilters/{filterId}

- Methods summary
- **GET Method details**
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- **DELETE Method details**

 - RequestResponse
 - Examples

Methods summary

- GET Method shows detailed information about the event filter.
- PUT Method modifies the parameter of the event filter.
- DELETE Method deletes the event filter.

GET Method details

Shows detailed information about the selected event filter.

Response

Name	Description
name	filter name.
selectedNames	array of filter names.
systemFilter	whether the filter is a system filter.
passIP	whether the filter should include devices not under management.

INPUT	<pre>curl -u admin:admin https://localhost/api/eventFilters/1001? media=json</pre>



```
OUTPUT

    "name": "A",
    "selectedNames": [
        "AvailMonitor Application Unavailable",
        "AvailMonitor High Latency Reaching Application Cleared"
    ],
    "systemFilter": false,
    "passIP": true
}
```

PUT Method details

Modifies the parameters of the selected event filter.

Request

Name	Description
name	filter name.
selectedNames	array of filter names.
passIP	whether the filter should include devices not under management.

Response

Name	Description
name	filter name.



selectedNames	array of filter names.
systemFilter	whether the filter is a system filter.
passIP	whether this filter should include devices not under management.

```
INPUT
         curl -u admin:admin https://localhost/api/eventFilters/1001?media=json -
         X PUT -H "content-type:application/json" -d \
           "name" : "B",
           "selectedNames" : [
             "AvailMonitor Application Unavailable",
             "WAN Port Low Outbound Utilization Cleared",
             "AvailMonitor High Latency Reaching Application Cleared"
           ],
           "passIP" : false
         }'
OUTPUT
        {
           "name" : "B",
          "selectedNames" : [
            "WAN Port Low Outbound Utilization Cleared",
            "AvailMonitor Application Unavailable",
            "AvailMonitor High Latency Reaching Application Cleared"
          "systemFilter" : false,
          "passIP" : false
        }
```



```
INPUT
         curl -u admin:admin https://localhost/api/eventFilters/1001?media=xml -X
         PUT -H "content-type:application/xml" -d \
         '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
         <eventFilterInfo systemFilter="false" passIP="false" name="B">
           <selectedNames>
             <filterName>WAN Port Low Outbound Utilization Cleared</filterName>
             <filterName>AvailMonitor Application Unavailable</filterName>
             <filterName>AvailMonitor High Latency Reaching Application Cleared<</pre>
         /filterName>
           </selectedNames>
         </eventFilterInfo>'
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <eventFilterInfo systemFilter="false" passIP="false" name="B">
          <selectedNames>
            <filterName>WAN Port Low Outbound Utilization Cleared</filterName>
            <filterName>AvailMonitor Application Unavailable/filterName>
            <filterName>AvailMonitor High Latency Reaching Application Cleared
        /filterName>
          </selectedNames>
        </eventFilterInfo>
```

DELETE Method details

Deletes the selected event filter.

Request

No additional parameters needed.

Response

Gives the message "OK" if operation was successful. Otherwise, gives an error description.

INPUT	<pre>curl -u admin:admin https://localhost/api/eventFilters/1001?media=json - X DELETE</pre>



```
OUTPUT {
    "message" : "OK"
}
```

INPUT	curl -u admin:admin https://localhost/api/eventFilters/1001?media=xml -X DELETE	
OUTPUT	<pre>PUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?></pre>	
	<statusinfo></statusinfo>	
	<message>OK</message>	



Incident Filters

List available incident filters, and create new filters.

URL: incidentFilters

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists available incident filters.
- POST Method creates new incident filter.

GET Method detail

Lists available incident filters.

Response

Response includes a list of incident filters. Each incident filter has the following attributes:

Name	Description
serverId	Entuity Server Id on which resource resides.
id	incident filter id unique to the server.
name	incident filter name.

INPUT	curl -u admin:admin https://localhost/api/incidentFilters?media=json



```
OUTPUT

    "items" : [ {
        "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
        "id" : "1",
        "name" : "All Incidents"
        }, {
            "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
            "id" : "2",
            "name" : "TestIncidents"
        } ],
        "count" : 2
    }
}
```

POST Method details

Creates new incident filter.

Request

Name	Description
name	filter name.
selectedNames	array of filter names.
passIP	whether the filter should include devices that are not under management.

Response



Name	Description
name	filter name.
selectedNames	array of filter names.
systemFilter	whether the filter is a system filter.
passIP	whether the filter should include devices that are not under management.

```
INPUT
         curl -u admin:admin https://localhost/api/incidentFilters?media=json -X
         POST -H "content-type:application/json" -d \
           "name" : "A",
           "selectedNames" : [
             "AP Antenna Host Count Abnormality",
             "AP Not Associated With Controller"
           ],
           "passIP" : false
OUTPUT \{
          "name" : "A",
          "selectedNames" : [
            "AP Antenna Host Count Abnormality",
            "AP Not Associated With Controller"
          ],
          "systemFilter" : false,
          "passIP" : false
        }
```



```
INPUT
         curl -u admin:admin https://localhost/api/incidentFilters?media=xml -X
         POST -H "content-type:application/xml" -d \
         '<eventFilterInfo systemFilter="false" passIP="true" name="A">
             <selectedNames>
                 <filterName>AvailMonitor High Latency</filterName>
                 <filterName>AvailMonitor Application Problem</filterName>
             </selectedNames>
         </eventFilterInfo>'
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <eventFilterInfo systemFilter="false" passIP="true" name="A">
            <selectedNames>
                <filterName>AvailMonitor High Latency</filterName>
                <filterName>AvailMonitor Application Problem</filterName>
            </selectedNames>
        </eventFilterInfo>
```





Incident Filter Details

Show details about a particular incident filter, modify the parameters of a filter, and delete a filter.

URL: incidentFilters/{filterId}

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- DELETE Method details
 - Request
 - Response
 - Examples

Methods summary

- GET Method shows detailed information about the filter.
- PUT Method modifies the parameters of the filter.
- DELETE Method deletes the filter.

GET Method details

Shows detailed information about the selected incident filter.

Response

Name	Description
name	incident filter name.
systemFilter	whether this filter is a system filter.
rules	list of rules in this filter.

INPUT	curl -u admin:admin https://localhost/api/incidentFilters/2?media=json



```
OUTPUT

    "name" : "A",
    "selectedNames" : [
        "AP Antenna Host Count Abnormality",
        "AP Not Associated With Controller"
    ],
    "systemFilter" : false,
    "passIP" : false
}
```

PUT Method details

Modifies the selected incident filter.

Request

Name	Description
name	filter name.
rules	list of rules defining the filter.

Response

Name	Description
name	filter name.
systemFilter	whether the filter is system one.



rules

list of rules defining a filter.

```
INPUT
         curl -u admin:admin https://localhost/api/incidentFilters/2?media=json -
         X PUT -H "content-type:application/json" -d \
           "name" : "B",
           "selectedNames" : [
             "AP Antenna Host Count Abnormality",
             "AP Antenna Power Change Frequency High",
             "AP Not Associated With Controller"
           ],
           "systemFilter" : false,
           "passIP" : true
         }'
OUTPUT
          "name" : "B",
          "selectedNames" : [
            "AP Antenna Host Count Abnormality",
            "AP Antenna Power Change Frequency High",
            "AP Not Associated With Controller"
          ],
          "systemFilter" : false,
          "passIP" : true
        }
```



DELETE Method details

Deletes the selected incident filter.

Request

No additional parameters needed.

Response

"OK" message if operation was successful, and an error description otherwise.

```
INPUT
    curl -u admin:admin https://localhost/api/incidentFilters/2?media=json -
    X DELETE "content-type:application/json"

OUTPUT {
        "message" : "OK"
    }
```

INPUT	<pre>curl -u admin:admin https://localhost/api/incidentFilters/2?media=xml -X DELETE</pre>
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?></pre>
	<statusinfo></statusinfo>
	<message>OK</message>



Events

List available events, or raise a new event.

URL: events

- Methods Summary
- GET Method details
 - Request
 - Response
 - Example
- POST Method details
 - Request
 - Examples

Methods Summary

- · GET Method lists available events.
- POST Method raises an event.

GET Method details

Lists available events.

Request

Name	Description
updateld	event update identifier, use the updateld in the last result set to get new events.
openedFrom	event opening time lower bound.
openedTo	event opening time upper bound.
closedFrom	event closing time lower bound.
closedTo	event closing time upper bound.
view	events filtered by view.
mask	event severity mask, severities can be added together to request multiple severities together.
	1 = Info, 2 = Minor, 4 = Major, 8 = Sever, 16 = Critical
	e.g. mask=24 would return both Sever and Critical events.



States	event state, either "open", "closed", "finalized" and "all". Multiple event states can be specified together.
	e.g. states=open&states=closed

Response

Response includes an array of events. Each event has the following attributes:

Name	Description
description	event description.
details	event details.
objectKeyInfo	object key, consisting of :
	swld StormWorks Identifier (integer)
	compld Classic component identifier (4 integers)
severity	event severity where :
	2 = Information, 4 = minor, 6 = major, 8 = severe, 10 = critical
description	event Description.
sourceDescription	source description.
impactDescription	impact description.
timeStamp	event timestamp.
id	event identifier.
eventNumber	event number.

INPUT curl -u admin:admin https://localhost/api/events?media=json	
-------------------------------------------------------------------	--



```
OUTPUT {
          "events" : [ {
            "description" : "Entuity Server Started",
            "details" : "Restarted",
            "objectKeyInfo" : {
              "swId" : 0,
              "compId" : {
                "ids" : [ 4096, 0, 0, 0 ]
            },
            "severity" : 2,
            "sourceDescription" : "Entuity server London01",
            "impactDescription" : "Entuity service",
            "timeStamp" : 1540894535,
            "id" : 786437,
            "eventNumber" : 480
          },
        ...removed for brevity...
          } ],
          "updateId" : 479,
          "count" : 459} ]
```

INPUT curl -u admin:admin https://localhost/api/events?media=xml



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <eventsCollection count="459" updateId="479">
            <events>
                <event eventNumber="480" severity="2" timeStamp="1540894535" id="</pre>
        786437">
                    <description>Entuity Server Started</description>
                    <details>Restarted</details>
                    <objectKeyInfo>
                        <swId>0</swId>
                        <compld>
                            <ids>
                                <ids>4096</ids>
                                <ids>0</ids>
                                <ids>0</ids>
                                <ids>0</ids>
                            </ids>
                        </compld>
                    </objectKeyInfo>
                    <sourceDescription>Entuity server London01
                    <impactDescription>Entuity service</impactDescription>
                </event>
                <event>
        ...removed for brevity...
                </event>
            </events>
        </eventsCollection>
```

POST Method details

Raises an event.

Request

Name	Description
id	Event type
source	The name to display for the event source field. If not specified, the object key's name is displayed (see below).



objectKeyInfo	Object key, consisting of:	
	swld : StormWorks Identifier (integer)	
	compld : Classic component identifier (4 integers)	
name	Event name	
severity	Event Severity	
	2 = Information, 4 = minor, 6 = major, 8 = severe, 10 = critical	
reason	Reason for event	
ImpactDescrip tion	Impact description	
externalld	extra identifier that can be included to the event, e.g. a custom event attribute. This is a string field.	

```
INPUT
         curl -u admin:admin https://localhost/api/events?media=json -X POST -H
         "content-type:application/json" -d \
           "reason" : "API test",
           "name" : "New Event",
           "source" : "Event source API test",
           "id" : 786441,
           "impactDescription" : "Entuity service",
           "severity" : 6,
           "objectKeyInfo" : { "swId" : 12345, "compId" : { "ids" : [4096, 0, 0,
         0] } },
           "externalId" : "12"
         }'
OUTPUT
          "message" : "Event sent"
        }
```



```
INPUT
         curl -u admin:admin https://localhost/api/events -X POST -H "content-
         type:application/xml" -d \
         '<eventInfo>
         <reason>API test</reason>
         <name>New event</name>
         <details>New event details</details>
         <id>786441</id>
         <impactDescription>Entuity service</impactDescription>
         <severity>2</severity>
         <objectKeyInfo>
           <swId>0</swId>
          <compId>
            <ids>
             <ids>4096</ids>
             <ids>0</ids>
             <ids>0</ids>
             <ids>0</ids>
            </ids>
           </compld>
         </objectKeyInfo>
         </eventInfo>'
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <statusInfo>
            <message>Event sent</message>
        </statusInfo>
```



Event Types

List available event types.

URL: eventTypes

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - lists available event types.

GET Method details

Lists available event types.

Response

Response includes an array of event types, each of them having the following format:

Name	Description
name	name of the event type.
severity	severity of the event type.

INPUT	curl -u admin:admin https://localhost/api/eventTypes?media=json



```
OUTPUT
[ {
        "name" : "ATM VCC High Inbound Utilization",
        "severity" : 6
      }, {
        ...removed for brevity...
    }, {
        "name" : "WAN Port Low Outbound Utilization Cleared",
        "severity" : 2
    }]
```

INPUT	<pre>curl -u admin:admin https://localhost/api/eventTypes?media=xml</pre>
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?></pre>
	<pre><items count="322"></items></pre>
	<pre><item name="ATM VCC High Inbound Utilization" severity="6" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance" xsi:type="eventType"></item></pre>
	removed for brevity
	<pre><item name="WAN Port Low Outbound Utilization Cleared" severity="2" xmlns:xsi="https://www.w3.org/2001/XMLSchema- instance" xsi:type="eventType"></item></pre>



Incidents

Lists available incidents.

URL: incidents

- Methods Summary
- GET Method details
 - Request
 - Response
 - Example

Methods Summary

• GET Method - lists available incidents.

GET Method details

Lists available incidents.

Request

Name	Description
updateld	incident update identifier, use the updateld from the last result set to get new incidents.
view	incidents filtered by view.
mask	incident severity mask, severities can be added together to request multiple severities together
	1 = Info, 2 = Minor, 4 = Major, 8 = Server, 16 = Critical
	e.g. mask=24 would return both Server and Critical incidents.
states	incident state, either "open", "closed", "expire" and "all". Multiple incident states can be specified together
	e.g. states=open&states=closed
openedFrom	incident opening time lower bound.
openedTo	incident opening time upper bound.
closedFrom	incident closing time lower bound.
closedTo	incident closing time upper bound.



Response

Response includes an array of event. Each event has following attributes:

Name	Description
description	event description.
details	event details.
objectKeyInfo	object key, consisting of :
	swld StormWorks Identifier (integer)
	compld Classic component identifier (4 integers)
severity	incident severity
	2 = Information, 4 = Minor, 6 = Major, 8 = Severe, 10 = Critical
sourceDescription	source description.
impactDescription	impact description.
timeStamp	event timestamp.
id	incident Identifier.
state	incident state.
annotation	incident annotation.
eventCount	number of events contributing to the incident.
extraAttribs	attribute key value pairs for the incident.

https://localhost/api/incidents?media=json	INPUT curl -u admin:admin
--------------------------------------------	---------------------------



```
OUTPUT {
          "incidents" : [ {
            "description" : "Entuity Server Component Problem",
            "details" : "Reason for event",
            "objectKeyInfo" : {
              "swId" : 815,
              "compId" : {
                "ids" : [ 1, 2, 3, 0 ]
            },
            "severity" : 6,
            "sourceDescription" : "London01",
            "impactDescription" : "",
            "timeStamp" : 1540900781,
            "id" : 69,
            "state" : "open",
            "annotation" : "test annotation",
            "eventCount" : 1,
            "extraAttribs" : {
                "attribKey" : "Attrib value"
            }
          }, {
          ...removed for brevity...
          } ],
          "updateId" : 799,
          "count" : 2
        }
```

```
INPUT curl -u admin:admin https://localhost/api/incidents?media=xml
```



```
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <incidentsCollection count="2" updateId="799">
            <incidents>
                <incident id="69" eventCount="1" state="open" annotation=""</pre>
        severity="6" timeStamp="1540900781" id="69">
                     <description>Entuity Server Component Problem</description>
                     <details>Reason for event</details>
                     <objectKeyInfo>
                         <swId>815</swId>
                         <compld>
                             <ids>
                                 <ids>1</ids>
                                 <ids>2</ids>
                                 <ids>3</ids>
                                 <ids>0</ids>
                             </ids>
                         </compld>
                     </objectKeyInfo>
                     <sourceDescription>Huge</sourceDescription>
                     <impactDescription></impactDescription>
                     <extraAttribs>
                         <entry>
                             <key>attribKey</key>
                             <value>Attrib value
                         </entry>
                     </extraAttribs>
                </incident>
                <incident
          ...removed for brevity...
                 </incident>
            </incidents>
        </incidentsCollection>
```



Incident Details

Change state, annotation and attributes of an incident.

URL: incidents/{incidentID}

- Methods Summary
- PUT Method details
 - Request
 - Response
 - Examples

Methods Summary

• PUT Method - change incident state, annotation, attributes.

PUT Method details

Change incident state, annotation and attributes.

Request

All the fields in an incident request are optional so each can be updated independently.

Name	Description	
state	change state. Valid states are "open", "closed" and "expired".	
	Note: It is not possible to change the state of an incident if it has already expired.	
annotation	change the annotation for an incident.	
attribute	update an attribute for an incident. A key and value must be provided (see examples below).	
	Note: The attribute must have already been defined in the active event project.	

Response

Name	Description
message	confirmation message.





Incident Types

Lists incident types.

URL: incidentTypes

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - lists available incident types.

GET Method details

Lists available incident types.

Response

Response includes an array of event types, each of them having the following format:

Name	Description
name	name of the incident type.



INPUT	curl -u admin:admin https://localhost/api/incidentTypes?media=xml
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?></pre>
	<pre><items count="256"></items></pre>
	<pre><item name="AP Antenna Channel Change Frequency High" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance" xsi:type="incidentType"></item></pre>
	removed for brevity
	<pre><item name="Wireless Controller High Number of Connected APs" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance" xsi:type="incidentType"></item></pre>



Inventory Summary

List the inventory on a server, or add a new device to the inventory.

URL: inventory

- Method Summary
- GET Method detail
 - Response data keys
 - Examples
- POST Method detail
 - URL parameters
 - Request Parameters
 - Response
 - Examples

Method Summary

- GET Method list the contents of the inventory (XML, JSON).
- POST Method queue a device to add to the inventory of a server (XML, JSON).

GET Method detail

List the contents of the inventory, in either XML or JSON formats.

Response data keys

Name	Description
Count	number of devices in the inventory.
Items	 Iist of device summary details: name: Display Name Id: Unique Identifier per server polledName: DNS name or IP address serverId: server identifier

INPUT	curl -u admin:admin https://localhost/api/inventory?media=json



POST Method detail

Queue a device to add to the inventory of a server, via either XML or JSON formats.

URL parameters

Note: URL parameters are appended to the end of the URL and are delimited from the main part of the URL using a question mark (?) character, see the example below.

Name	Description
allowduplicatelps	allow duplicate IP addresses. By default, ENA will not manage a device that has IP addresses that have already been seen on an existing managed device. The duplicatelps flag can be used to override this behavior.
	The flag will accept the values; "false", "no", "0", "true", "yes" or "1". To override ENA's default behavior, set this flag to true. For default behavior set the flag to false or omit the flag altogether.



Request Parameters

Name	Description
authKey	SNMP v3 authentication key.
authPass	authType password.
authType	 SNMP v3 authentication type: none MD5 SHA SHA224 SHA256 SHA384 SHA512
cliMethod	Connection method: SSH, TELNET
cliPassword1	Password 1
cliPassword2	Password 2
cliPort	Connection port
cliUsername	CLI User name
deviceType	 Hub. Token Ring Switch. Ethernet Switch. ATM Switch. Router. Blade Center. User Created Node. VM Platform. Autonomous WAP. Firewall. VPN. Managed Host. Non-SNMP Device. Unclassified (Full). PoE Midspan Injector. Load Balancer. SSL Proxy. Unclassified. Wireless Controller. Uninterruptible Power Supply. Matrix Switch. Wide Area Application Service. Multiplexer. SDN Controller. Cloud Controller. Cloud Controller. Custom Device.



	V V
encrKey	SNMP v3 encryption key.
encrPass	encrType password.
encrType	 NONE. DES. DES3. AES. AES192. AES256.
managementLevel	management level: • FULL. • FULL_NO_PORTS. • BASIC. • PING_ONLY. • WEB.
name	device name.
nameUsing	device name is determined using one of the following:
	CUSTOMNAME.
	IPADDRESS.
	POLLEDNAME.
	RESOLVABLENAME.
	RESOLVABLENAMEFQ.
	SYSTEMNAME.
polledName	DNS name or IP Address.
protocol	transport protocol: IPv4, IPv6.
readCommunity	SNMP v1/v2 read community string.
writeCommunity	SNMP v1/v2 write community string.
snmpPDUSize	maximum size of SNMP PDU.
	0 = system default
snmpRetry	number of SNMP retries.
	0 = system default
snmpTimeout	SNMP timeout in seconds.
	0 = system default



snmpType	 SNMP type: v1. v2c. v3. v1/2.
snmpPort	SNMP port number (if omitted, the default value will be used).
userName	SNMP v3 user name.
webAccessKey	access key (Amazon platform only).
webPassword	virtual platform password (non-Amazon virtual platforms).
webPlatformType	virtual platform type: VMWARE_ESXi ORACLE_VM_MANAGER HYPER_V AMAZON_WEB_SERVICE AZURE CISCO_APIC MERAKI
webSecretKey	secret key (Amazon platform only).
webTenantID	password for Microsoft Azure platform.
webURL	virtual platform URL (non-Amazon virtual platforms).
webUser	virtual platform user name (non-Amazon virtual platforms).

Response

200 - OK (Device is queued to be added to the inventory.)

The status info message will say "Queued" or "Replaced", depending on whether this was the first attempt to add a device, or if there was a previous failed attempt to add the device with the same **polledName**.



To add a device that is not a VM Platform, Cloud Controller, SDN Controller, Ping Only, or Custom Device:



```
INPUT
    curl -u admin:admin https://localhost/api/inventory?media=json -X POST -
    H "content-type:application/json" -d \
    '{
        "nameUsing" : "POLLEDNAME",
        "polledName" : "10.66.33.2",
        "managementLevel" : "FULL",
        "protocol" : "IPv4",
        "snmpType" : "v2c",
        "readCommunity" : "public",
    }'

OUTPUT
    {
        "message" : "Queued"
    }
}
```

To specify a Ping Only device:

To specify a device type such as VM Platform, Cloud Controller, SDN Controller:

i). To add an Amazon Web Services platform:



```
INPUT
    curl -u admin:admin https://localhost/api/inventory?media=json -X POST -
    H "content-type:application/json" -d \
    '{
        "managementLevel" : "WEB",
        "polledName" : "AWS",
        "deviceType" : "VM Platform",
        "webPlatformType" : "AMAZON_WEB_SERVICE",
        "webAccessKey" : "ABCDEFG",
        "webSecretKey" : "xyxyxyxyxyxyxyxyx"
    }'

OUTPUT
    {
        "message" : "Queued"
    }
}
```

ii). To add a Meraki Cloud Controller platform:

iii). To add an Azure platform:



```
INPUT
         curl -u admin:admin https://localhost/api/inventory?media=json -X POST -
         H "content-type:application/json" -d \
         ' {
           "managementLevel" : "WEB",
           "polledName" : "AZURE",
           "deviceType" : "VM Platform",
           "webPlatformType" : "AZURE",
           "webTenantID" : "TenantID",
           "webSecretKey" : "secretKey",
           "webAccessKey" : "vmAccessKey",
         }'
OUTPUT
        {
           "message" : "Queued"
        }
```

iv). To add a Cisco APIC SDN Controller:

v). To add a VMWare Platform:



```
INPUT
         curl -u admin:admin https://localhost/api/inventory?media=json -X POST -
         H "content-type:application/json" -d \
         ' {
           "managementLevel" : "WEB",
           "polledName" : "vortex",
           "deviceType" : "VM Platform",
           "webPlatformType" : "VMWARE_ESXi",
           "webURL" : "https://vortex/sdk",
           "webUser" : "root",
           "webPassword" : "password",
           "protocol": "IPv4"
         }'
OUTPUT
           "message" : "Queued"
        }
```

vi). To add a Viptela device:

```
INPUT

curl -u admin:admin https://localhost/api
/inventory?media=json -X POST -H "content-type:
application/json" -d \

'{

    "managementLevel" : "WEB",
    "polledName" : "Viptela1",
    "deviceType" : "Cloud Controller",
    "webPlatformType" : "VIPTELA",
    "webURL" : "https://api.viptela.com/api/v1",
    "webUser" : "entuity",
    "webPassword" : "12345"
}'

OUTPUT

{
    "message" : "Queued"
}
```

vii). To add a Cisco DNA Center:



```
INPUT
         curl -u admin:admin https://localhost/api
         /inventory?media=json -X POST -H "content-type:
         application/json" -d \
         ' {
              "managementLevel" : "WEB",
              "polledName" : "DNAC1",
              "deviceType" : "Cisco DNA Center",
              "webPlatformType" : "CISCO_DNA_CENTER",
              "webURL" : "https://1.2.3.4",
              "webUser" : "entuity",
              "webPassword" : "12345"
         }'
OUTPUT
        {
           "message" : "Queued"
        }
```



Inventory Details

List, update or delete an inventory device.

URL: inventory/{deviceId}

- **Method Summary**
- **GET Method detail**
 - Request Parameters
 - Response data keys
 - Examples
- PUT Method detail
 - Request Parameters
 - Response data
 - Examples
- DELETE Method details

 - RequestResponse
 - Examples

Method Summary

- GET Method list details of an inventory device (XML, JSON).
- PUT Method change an inventory device's details (XML, JSON).
- DELETE Method remove a device from the inventory.

GET Method detail

List details of an inventory device, in either XML or JSON formats.

Request Parameters

None.

Response data keys

Name	Description
authKey	SNMP v3 authentication key.



authType SNMP v3 authentication type: none		
certified if device has been certified. deviceType device type. dsObjectId device's stormworks identifier. encrKey SNMP v3 encryption key. encrType SNMP v3 encryption type: • none • DES • DES3 • AES • AES192 • AES256. context SNNP v3 context. id device's unique identifier. managementIP management IP address. managementLevel #FULL • FULL • FULL • FULL NO_PORTS • BASIC • PING_ONLY • WEB. name device name device name device name is determined using either: • CUSTOMNAME • IPADDRESS • POLLEDNAME • RESOLVABLENAME • RESOLVABLENAME • RESOLVABLENAMEFQ • SYSTEMNAME.	authType	 none MD5 SHA SHA224 SHA256 SHA384
deviceType devicetype. devicetype. device's stormworks identifier. encrKey SNMP v3 encryption key. encrType SNMP v3 encryption type: • none • DES • DES3 • AES • AES192 • AES256. context SNNP v3 context. id device's unique identifier. managementIP management IP address. managementLevel • FULL •	capabilities	device capabilities: routing, switching, switching & routing.
dsObjectId device's stormworks identifier. encrKey SNMP v3 encryption key. encrType SNMP v3 encryption type: • none • DES • DES3 • AES • AES192 • AES256. context SNNP v3 context. id device's unique identifier. managementIP management IP address. managementLevel #FULL • FULL • FULL DOPORTS • BASIC • PING_ONLY • WEB. name device name device name is determined using either: • CUSTOMNAME • IPADDRESS • POLLEDNAME • RESOLVABLENAME	certified	if device has been certified.
encrKey SNMP v3 encryption key. encrType SNMP v3 encryption type: none DES DES3 AES192 AES192 AES256. context SNNP v3 context. id device's unique identifier. managementIP management IP address. management level: FULL FULL FULL_NO_PORTS BASIC PING_ONLY WEB. name device name device name device name device name is determined using either: CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME	deviceType	device type.
encrType SNMP v3 encryption type: none DES DES3 AES AES AES192 AES256. context SNNP v3 context. id device's unique identifier. managementIP management IP address. management level: FULL FULL_NO_PORTS BASIC PING_ONLY WEB. name device name device name device name device name device name customNAME PADDRESS POLLEDNAME RESOLVABLENAME	dsObjectId	device's stormworks identifier.
none DES DES3 DES3 AES AES192 AES256. Context SNNP v3 context. id device's unique identifier. managementIP management IP address. managementLevel FULL FULL_NO_PORTS BASIC PING_ONLY WEB. name device name device name device name customNAME IPADDRESS POLLEDNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAME RESOLVABLENAME SYSTEMNAME.	encrKey	SNMP v3 encryption key.
id device's unique identifier. managementIP management IP address. managementLevel management level: • FULL • FULL_NO_PORTS • BASIC • PING_ONLY • WEB. name device name device name device name is determined using either: • CUSTOMNAME • IPADDRESS • POLLEDNAME • RESOLVABLENAME • RESOLVABLENAMEFQ • SYSTEMNAME.	encrType	noneDESDES3AESAES192
managementIP management IP address. managementLevel • FULL • FULL_NO_PORTS • BASIC • PING_ONLY • WEB. name device name nameUsing device name is determined using either: • CUSTOMNAME • IPADDRESS • POLLEDNAME • RESOLVABLENAME • RESOLVABLENAME • RESOLVABLENAMEFQ • SYSTEMNAME.	context	SNNP v3 context.
management level: FULL FULL_NO_PORTS BASIC PING_ONLY WEB. device name device name device name is determined using either: CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAMEFQ SYSTEMNAME.	id	device's unique identifier.
PULL FULL_NO_PORTS BASIC PING_ONLY WEB. device name device name is determined using either: CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAMEFQ SYSTEMNAME.	managementIP	management IP address.
nameUsing device name is determined using either: CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAME SYSTEMNAME.	managementLevel	FULLFULL_NO_PORTSBASICPING_ONLY
 CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAMEFQ SYSTEMNAME. 	name	device name
polledName DNS name or IP Address.	nameUsing	 CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAMEFQ
	polledName	DNS name or IP Address.



protocol	Transport protocol: IPv4 or IPv6.
readCommunity	SNMP read community string.
serverId	server identifier.
snmpPDUSize	maximum size of SNMP PDU, where 0 = system default.
snmpRetry	number of SNMP retries, where 0 = system default.
snmpTimeout	SNMP timeout in seconds, where 0 = system default.
snmpType	SNMP version: v1, v2, v3 or v1/2.
sysDescription	SNMP description field.
sysLocation	SNMP retrieved system Location field.
sysOid	SNMP system identifier field.
username	SNMP v3 user name.
webAccessKey	access key (Amazon platform only).
webPassword	virtual platform password (Non Amazon virtual platforms).
webPlatformType	virtual platform type: VMWARE_ESXi ORACLE_VM_MANAGER HYPER_V AMAZON_WEB_SERVICE AZURE CISCO_APIC MERAKI
webSecretKey	secret key (Amazon platform only).
webTenantID	password for Microsoft Azure platform.
webURL	virtual platform URL (non-Amazon virtual platforms).
webUser	virtual platform username (non-Amazon virtual platforms).
zoneld	the ID of a zone.

INPUT	curl -u admin:admin https://localhost/api/inventory/2?media=json	



```
OUTPUT | {
          "serverId" : "34564e92-3b4f-43ba-94a8-04309c0e48fe",
          "id": "2",
          "name": "10.66.23.1",
          "dsObjectId": 814,
          "snmpTimeout": 0,
          "snmpRetry": 0,
          "snmpPDUSize": 0,
          "protocol": "IPv4",
          "snmpType": "v3",
          "nameUsing": "CUSTOMNAME",
          "certified": "Yes",
          "polledName": "10.66.23.1",
          "managementIP": "10.66.23.1",
          "sysOid": ".1.3.6.1.4.1.2.3.50",
          "sysDescription": "10/100 Mbps Ethernet Switch",
          "sysLocation": "Simulator",
          "deviceType": "Ethernet Switch",
          "readCommunity": "public",
          "userName": "entuity",
          "authType": "MD5",
          "encrType": "DES",
          "managementLevel": "FULL",
          "context": "",
          "zoneId": 0,
          "cliUsername": ""
        }
```

```
INPUT curl -u admin:admin https://localhost/api/inventory/2?media=xml
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<inventoryDevice cliUsername="" zoneId="0" snmpPDUSize="0" snmpRetry="0"</pre> snmpTimeout="0" context="" encrType="NONE" authType="NONE" userName="" readCommunity="public" snmpType="v1/v2c" protocol="IPv4" certified="Yes" deviceType="Ethernet Switch" managementLevel="FULL_MGMT_PORT_ONLY" capabilities="Switch" sysLocation="Simulator" sysDescription="10/100 Mbps Ethernet Switch" sys0id=".1.3.6.1.4.1.2.3.50" managementIP="10.66.23.1" polledName="10.66.23.1" nameUsing="CUSTOMNAME" dsObjectId="922" name=" 10.66.23.1" id="2" serverId="34564e92-3b4f-43ba-94a8-04309c0e48fe"/>

PUT Method detail

Change the details of an inventory device, in either XML or JSON formats. Please refer to the ENA Help Center for help and information on how to add devices to your network from the ENA UI.

Request Parameters

Name	Description
authKey	SNMP v3 authentication key.
authPass	SNMP v3 authentication password.
authType	 SNMP v3 authentication type: none MD5 SHA SHA224 SHA256 SHA384 SHA512
cliMethod	Connection method: SSH, TELNET.
cliPassword1	password 1.
cliPassword2	password 2.
cliPort	connection port.
cliUsername	CLI User name.
context	SNMP v3 context.
encrKey	SNMP v3 encryption key.
encrPass	SNMP v3 encryption password.
encrType	SNMP v3 encryption type: NONE, DES, AES.
name	display name.



nameUsing	 device name is determined using either: CUSTOMNAME IPADDRESS POLLEDNAME RESOLVABLENAME RESOLVABLENAMEFQ SYSTEMNAME.
protocol	Transport protocol: IPv4 or IPv6.
readCommunity	SNMP read community string.
snmpPDUSize	maximum size of snmp PDU, where 0 = system default.
snmpRetry	number of snmp retries, where 0 = system default.
snmpTimeout	SNMP timeout in seconds, where 0 = system default
snmpType	 SNMP type: v1 v2c v3 v1/v2c.
userName	SNMP v3 user name.
webAccessKey	access key (Amazon platform only).
webPassword	virtual platform password (non-Amazon virtual platforms).
webPlatformType	virtual platform type: VMWARE_ESXi ORACLE_VM_MANAGER HYPER_V AMAZON_WEB_SERVICE AZURE CISCO_APIC MERAKI
webSecretKey	secret key (Amazon platform only).
webTenantID	password for Microsoft Azure platform.
webURL	virtual platform URL (non-Amazon virtual platforms).
webUser	virtual platform user name (non-Amazon virtual platforms).

200 OK



```
INPUT

curl -u admin:admin https://localhost/api/inventory/2?media=json -X PUT -
H "content-type:application/json" -d \

'{
    "managementLevel" : "FULL",
    "protocol" : "IPv4",
    "snmpType" : "v3",
    "userName" : "entuity",
    "authType" : "MD5",
    "authPass" : "entuity123",
    "encrType" : "DES",
    "encrPass" : "entuity123"
}'
```



```
OUTPUT | {
          "serverId": "34564e92-3b4f-43ba-94a8-04309c0e48fe",
          "id": "2",
          "name": "10.66.23.1",
          "dsObjectId": 814,
          "snmpTimeout": 0,
          "snmpRetry": 0,
          "snmpPDUSize": 0,
          "protocol": "IPv4",
          "snmpType": "v3",
          "nameUsing": "CUSTOMNAME",
          "certified": "Yes",
          "polledName": "10.66.23.1",
          "managementIP": "10.66.23.1",
          "sysOid": ".1.3.6.1.4.1.2.3.50",
          "sysDescription": "10/100 Mbps Ethernet Switch",
          "sysLocation": "Simulator",
          "deviceType": "Ethernet Switch",
          "readCommunity": "public",
          "userName": "entuity",
          "authType": "MD5",
          "encrType": "DES",
          "managementLevel": "FULL",
          "context": "",
          "zoneId": 0,
          "cliUsername": ""
        }
```



```
INPUT
          curl -H -u admin:admin https://localhost/api/inventory/2?media=xml -X
          PUT -d \
          '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
          <inventoryDevice</pre>
            managementLevel="FULL"
             snmpType="v3"
            userName="entuity"
            authType="MD5"
            authPass="entuity123"
             encrType="DES"
             encrPass="entuity123"
          />'
          <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
OUTPUT
          <inventoryDevice cliUsername="" zoneId="0" snmpPDUSize="0" snmpRetry="0" snmpTimeout="0"</pre>
          context="" encrType="DES" authType="MD5" userName="entuity" readCommunity="public"
          snmpType="v3" protocol="IPv4" certified="Yes" deviceType="Ethernet Switch" managementLevel="
          FULL" capabilities="Switch" sysLocation="Simulator" sysDescription="10/100 Mbps Ethernet
          Switch" sysOid=".1.3.6.1.4.1.2.3.50" managementIP="10.66.23.1" polledName="10.66.23.1"
          nameUsing="CUSTOM" dsObjectId="922" name="10.66.23.1" id="6" serverId="34564e92-3b4f-
          43ba-94a8-04309c0e48fe"/>
```

```
INPUT
    curl -H -u admin:admin https://localhost/api/inventory/<deviceId>?
    media=json -X PUT -H "content-type:application/json" -d \
    '{
        "polledName" : "e2821",
        "snmpType" : "v3",
        "userName" : "e2821user",
        "authType" : "SHA",
        "authKey" : "BE27129CF8E393C2E95C590579188A4824B238B7",
        "encrType" : "AES",
        "encrKey" : "E7DB0CFE9A77DE488A3CC66200377C257A9A9AE2"
    }'
OUTPUT
```

DELETE Method details



Remove a device from the inventory.

Request

The ID of the object that is to be deleted is sent as a part of a URL.

Response

"OK" message if the device was removed successfully, an error message otherwise.

```
INPUT
    curl -u admin:admin https://localhost/api/inventory/2?media=json -X
DELETE

OUTPUT {
    "message": "OK"
}
```

INPUT	curl -u admin:admin https://localhost/api/inventory/2?media=xml -X DELETE
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <statusinfo></statusinfo></pre>



Auto Discovery Status

View a summary of the current status of the Auto Discovery, and start a discovery. Applicable to Enuity v19.0 upwards only.

URL: autodiscovery

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
- POST Method detail
 - Request Parameters
 - Response data
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples

Method Summary

- GET Method returns a summary of the current status of the Auto Discovery.
- POST Method given a profile name, will start a discovery with that profile.
- PUT Method given a profile name, will stop a discovery with that profile.

GET Method detail

Will show a status summary, displaying the current situation of the discovery, such as any running profiles, and any profiles that are queued to run.

Request Parameters

None.

Response data keys

Name	Description
id	ID number for discovery profile
name	user-specified name of discovery profile
description	user-specified description of discovery profile



status	 status of discovery profile: 0 - Never Ran 1 - In Progress 2 - Complete 3 - Stopped (aborted or crashed)
percentage	percentage of completion, 0 - 100

Examples

```
INPUT
         curl -u admin:admin https://localhost/api/autodiscovery?media=json
OUTPUT
        "settings" : [ {
        "id" : 5,
         "name" : "default",
         "description" : "Migrated from old discovery: default.cfg",
         "status" : 3,
        "percentage" : 0
        }, {
        "id" : 12,
        "name" : "test",
        "description" : "",
        "status" : 2,
        "percentage" : 100
        } ]
        }
```

POST Method detail

Will run the given Auto Discovery profile. If this profile is running already, or is in the queue, then this call will do nothing.

Request Parameters

Name	Description
id	ID of the profile to be run.



Shows the summary if the call was successful.

Examples

PUT Method details

Will stop the given Auto Discovery profile.

Request

Name	Description
id	ID of the profile to be stopped.

Response

Shows the summary if the call was successful.

```
INPUT

curl -u admin:admin https://localhost/api/autodiscovery?

media=json -X PUT -H "content-type:application/json" -d \

'{"id" : "1"}'
```



```
OUTPUT {
    "settings" : [ {
        "id" : 1,
        "name" : "Default",
        "description" : "Migrated from old discovery: Default.cfg",
        "status" : 3,
        "percentage" : 100
    } ]
```



Auto Discovery Profiles

View and create Auto Discovery profiles. Applicable to Enuity v19.0 upwards only.

URL: autodiscoveryProfiles

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
 - Examples
- POST Method detail
 - Request Parameters
 - Response data
 - Examples

Method Summary

- GET Method returns a list of Auto Discovery profiles (XML, JSON).
- POST Method creates a new Auto Discovery profile.

GET Method detail

Lists all Auto Discovery profiles.

Request Parameters

None.

Response data keys

Name	Description
items	a list of profiles on this server.
count	number of profiles.

Examples

No Auto Discoveries running, no schedules:

INPUT	<pre>curl -u admin:admin https://localhost/api/autodiscoveryProfiles? media=json</pre>



```
OUTPUT | {
             "settings" : [ {
             "id" : 1,
             "name" : "Default",
             "description" : "Migrated from old discovery: Default.cfg",
             "status" : 0,
             "percentage" : 0
          }, {
             "id" : 2,
             "name" : "Custom Discovery",
             "description" : "",
             "status" : 2,
             "percentage" : 100
          }, {
             "id" : 3,
             "name" : "checking test",
             "description" : "",
             "status" : 2,
             "percentage" : 100
          } ]
        }
```

POST Method detail

Create a new profile with given settings. If some settings are not given, then they wil be filled with default values. The "profile" value must be unique.

Request Parameters

Name	Description
id	ID number for the discovery profile.
name	user-specified name of the discovery profile.
description	user-specified description of the discovery profile.
zoneID	zone ID.



	SOFTWARE
includedAddresses	addresses to scan. Comma-separated IP addresses or hostnames.
excludedAddresses	addresses to exclude. Comma-separated IP addresses or hostnames.
flags	 a bitflag for flags: 0 - manage discovered devices after discovery finishes. 1 - allow duplicate IPs. 2 - use all credentials. If this is specified, the 'Credentials' field is ignored. 3 - managed associated devices after discovery. 5 - use management IP.
credentials	list of credential IDs to try.
scheduleBitSet	a bitflag for the days on which the schedule should be run. If 0, it does not run. 0: Monday to 6: Sunday.
scheduleHours	hour in which the schedule should be run in 24-hour time.
autoManagementLevel	 the level of device management, if automanage is on: 1 - full. 2 - full, management interface only. 3 - full, no interfaces. 4 - basic. 5 - basic, ping only. 6 - web. 7 - none. 8 - CLI (not used).
displayNameUsing	the name to be used in management: • 0 - system. • 1 - resolved. • 2 - resolved FQ. • 3 - polled name. • 4 - IP address.
pollUsing	 the method of polling when managed: 0 - poll using given address. 1 - use resolved name. 2 - use resolved name, fallback to given address.
destinationViewPath	viewPath to which to add, if managed.
viewPathHidden	indicates if the viewPath should be hidden due to permissions. If true, this viewPath will be ignored when editing.
probeBitSet	a bitflag for probes to run.
	- I



	SOLIWARE
attributes	custom attributes: tcp_ports udp_ports snmp.ports snmp.excluded_sysoids winrm.ports ssh.ports
lastFinished	the time a discovery finished.
nextRun	the time a discovery is next scheduled to run.
lastRunStatus	 the status of the last run: 0 or -1 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
credentialStatus	not used.
accessMethods	not used.
lastRan	the time a discovery last ran.
status	 current status of this discovery profile: 0 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
percentage	current progress percentage of the discovery, if running.

Displays the list of available profiles, updated with the new profile.



```
"flags" : 0,
"publicServicesBitSet" : 0,
"credentials" : [ 7 ],
"scheduleBitSet" : 0,
"scheduleHours" : 0,
"autoManagementLevel" : 1,
"displayNameUsing" : 5,
"pollUsing" : 2,
"destinationViewPath" : null,
"viewPathHidden" : null,
"probeBitSet" : 30,
"attributes" : {
"collectors" : "oswinrm:oslinuxssh",
"http.ports" : "80",
"https.ports" : "443",
"snmp.excluded_sysoids" : "1.3.6.1.4.1.311.1.1.3.1.2,\n1.
3.6.1.4.1.2.3.1.2.1.1.3,\n1.3.6.1.4.1.8072.3.2.10,\n1.
3.6.1.4.1.8072.3.2.3,\n1.3.6.1.4.1.311.1.1.3.1.1,\n1.
3.6.1.4.1.311.1.1.3.1.3,\n1.3.6.1.4.1.42.2.1.1",
"snmp.ports" : "161",
"ssh.ports" : "22",
"tcp_ports" : "21, 23, 25",
"wirnm.ports" : "5985, 5986"
"lastFinished" : null,
"nextRun" : null,
"lastRunStatus" : null,
"credentialStatus" : null,
"accessMethods" : [ "Host Detection", "SNMP", "WinRM", "SSH" ],
"lastRan" : null,
"status" : null,
"percentage" : null
testuser@testlaptop:/mnt/c/Users/testuser curl -sku admin:
admin'https://localhost/api/autodiscoveryProfiles'
"settings" : [ {
"id" : 1,
"name" : "Default",
```



```
"description" : "Migrated from old discovery: Default.cfg",

"status" : 2,

"percentage" : 100
}, {

"id" : 2,

"name" : "Checking poseidon",

"description" : "",

"status" : 0,

"percentage" : 0
} ]
}
```



Auto Discovery Profile

View, edit and delete Auto Discovery Profiles. Applicable to Enuity v19.0 upwards only.

URL: autodiscoveryProfiles/{id}

- **Method Summary**
- **GET Method detail**
 - Request Parameters
 - Response data keys
 - Examples
- PUT Method detail
 - Request Parameters
 - Response data
 - Examples
- DELETE Method detail
 - Request ParametersResponse data

 - Examples

Method Summary

- GET Method returns the settings of this profile (XML, JSON).
- PUT Method modifies this profile's settings.
- DELETE Method removes this profile.

GET Method detail

Shows the settings of this profile.

Request Parameters

None.

Response data keys

Shows the settings of the given profile.

Name	Description
id	ID number for the discovery profile.
name	user-specified name of the discovery profile.
description	user-specified description of the discovery profile.
zoneID	zone ID.



	SOFTWARE
includedAddresses	addresses to scan. Comma-separated IP addresses or hostnames.
excludedAddresses	addresses to exclude. Comma-separated IP addresses or hostnames.
flags	 a bitflag for flags: 0 - manage discovered devices after discovery finishes. 1 - allow duplicate IPs. 2 - use all credentials. If this is specified, the 'Credentials' field is ignored. 3 - managed associated devices after discovery. 5 - use management IP.
credentials	list of credential IDs to try.
scheduleBitSet	a bitflag for the days on which the schedule should be run. If 0, it does not run. 0: Monday to 6: Sunday.
scheduleHours	hour in which the schedule should be run in 24-hour time.
autoManagementLevel	the level of device management, if automanage is on: 1 - full. 2 - full, management interface only. 3 - full, no interfaces. 4 - basic. 5 - basic, ping only. 6 - web. 7 - none. 8 - CLI (not used).
displayNameUsing	the name to be used in management: • 0 - system. • 1 - resolved. • 2 - resolved FQ. • 3 - polled name. • 4 - IP address.
pollUsing	 the method of polling when managed: 0 - poll using given address. 1 - use resolved name. 2 - use resolved name, fallback to given address.
destinationViewPath	viewPath to which to add, if managed.
viewPathHidden	indicates if the viewPath should be hidden due to permissions. If true, this viewPath will be ignored when editing.
probeBitSet	a bitflag for probes to run.



	SOFTWARE
attributes	 tcp_ports udp_ports snmp.ports snmp.excluded_sysoids winrm.ports ssh.ports
lastFinished	the time a discovery finished.
nextRun	the time a discovery is next scheduled to run.
lastRunStatus	 the status of the last run: 0 or -1 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
credentialStatus	not used.
accessMethods	not used.
lastRan	the time a discovery last ran.
status	 current status of this discovery profile: 0 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
percentage	current progress percentage of the discovery, if running.

Examples

п	U	D	П	T

curl -u admin:admin https://localhost/api/autodiscoveryProfiles/5?
media=json



```
OUTPUT {
          "id" : 5,
          "name" : "default",
          "description" : "migrated from old discovery: default.cfg",
          "zoneId" : 0,
          "includedAddresses" : "10.55.0-255.0-255",
          "excludedAddresses" : "",
          "flags" : 6,
          "publicServicesBitSet" : 0,
          "credentials" : null,
          "scheduleBitSet" : 1
          "scheduleHours" : 7,
          "autoManagementLevel" : 1,
          "displayNameUsing" : 3,
          "pollUsing" : 1,
          "destinationViewPath" : null,
          "viewPathHidden" : false,
          "probeBitSet" : 6,
          "attributes" : {
             "snmp.excluded_sysoids" :
        "1.3.6.1.4.1.311.1.1.3.1.2,1.3.6.1.4.1.2.3.1.2.1.1.3,1.3.6.1.4.1.8072.3.2.
        10,1.3.6.1.4.1.8072.3.2.3,1.3.6.1.4.1.311.1.1.3.1.1,1.3.6.1.4.1.311.1.1.3.
        1.3,1.3.6.1.4.1.42.2.1.1",
             "snmp.ports" : "161",
            "ssh.ports" : "22",
            "tcp_ports" : "21, 23, 25",
            "winrm.ports" : "5985, 5986"
          },
          "lastFinished" : 1617295096000,
          "nextRun" : 1618207200000,
          "lastRunStatus" : -1,
          "credentalStatus" : null,
          "accessMethods" : [ "Host Detection", "SNMP" ],
          "lastRan" : 1617295095000,
          "status" : 3,
          "percentage" : 0
        }
```



```
INPUT
         curl -u admin:admin https://localhost/api/autodiscoveryProfiles/2?
         media=xml
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <ns2:autoDiscProfile autoManagementLevel="1" description="10.44.XX.XX"</pre>
        destinationViewPath="My Network/local/10.44.XX.XX" displayNameUsing="5"
        excludedAddresses="" flags="41" id="2" includedAddresses="10.44.0-255.0-
        255" lastFinished="1662565889000" lastRan="1662565869000" lastRunStatus="
        -1" name="10.44.XX.XX" percentage="0" pollUsing="2" probeBitSet="30"
        publicServicesBitSet="0" scheduleBitSet="0" scheduleHours="0" status="3"
        viewPathHidden="false" zoneId="0" xmlns:ns5="http://www.entuity.com/webrpc
         " xmlns:ns2=" http://www.entuity.com/schemas/webUI" xmlns:ns4=" http://www.
        entuity.com/schemas/eventengine" xmlns:ns3="http://www.entuity.com/schemas
        /flow">
           <accessMethods>
            <accessMethod>Host Detection</accessMethod>
             <accessMethod>SNMP</accessMethod>
            <accessMethod>WinRM</accessMethod>
             <accessMethod>SSH</accessMethod>
           </accessMethods>
           <attributes>
            <entries>
               <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
         " xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">https.ports>
               <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
        /XMLSchema wmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">443>
            </entries>
            <entries>
               <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
         " xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">snmp.
        excluded_sysoids>
               <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
        /XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1.
        3.6.1.4.1.311.1.1.3.1.2, 1.3.6.1.4.1.2.3.1.2.1.1.3,
        1.3.6.1.4.1.8072.3.2.10, 1.3.6.1.4.1.8072.3.2.3,
        1.3.6.1.4.1.311.1.1.3.1.1, 1.3.6.1.4.1.311.1.1.3.1.3, 1.3.6.1.4.1.42.2.1.1
        </value>
            </entries>
            <entries>
               <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
         " xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">collectors>
```



```
<value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">oswinrm:
oslinuxsh:ossolarissh:osaixsh:ciscoucscimcsnmp:idracsnmp:dellidracssh:
hpinsightsnmp:hpilossh:openmanagesnmp:supermicrorest:datadomainsnmp:
datadomain:naviseccli:vnxcontrolssh:uemcli:dellequallogicsnmp:
dellisilonrest:dellisilonssh:netappsnmp:netappssh:nimble:purestoragerest>
    </entries>
    centries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">ssh.ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">22>
    </entries>
    <entries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">restapi.ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">80>
    </entries>
    <entries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">http.ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
</entries>
    <entries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">snmp.ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema wmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">161>
    </entries>
    <entries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">wirnm.ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">5985,
5986</value>
    </entries>
    <entries>
      <key xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">tcp_ports>
      <value xsi:type="xs:string" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">21, 23,
25</value>
```



```
</entries>
 </attributes>
 <credentials>
    <credential>1</credential>
    <credential>2</credential>
    <credential>3</credential>
    <credential>4</credential>
    <credential>5</credential>
    <credential>6</credential>
    <credential>8</credential>
    <credential>9</credential>
    <credential>10</credential>
    <credential>11</credential>
    <credential>12</credential>
 </credentials>
</ns2:autoDiscProfile>
```

PUT Method detail

Modifies the chosen profile with given settings. The name cannot be modified.

Request Parameters

Name	Description
id	ID number for the discovery profile.
name	user-specified name of the discovery profile.
description	user-specified description of the discovery profile.
zoneID	zone ID.
includedAddresses	addresses to scan. Comma-separated IP addresses or hostnames.
excludedAddresses	addresses to exclude. Comma-separated IP addresses or hostnames.



	SOFTWARE
flags	 a bitflag for flags: 0 - manage discovered devices after discovery finishes. 1 - allow duplicate IPs. 2 - use all credentials. If this is specified, the 'Credentials' field is ignored. 3 - managed associated devices after discovery. 5 - use management IP.
credentials	list of credential IDs to try.
scheduleBitSet	a bitflag for the days on which the schedule should be run. If 0, it does not run. 0: Monday to 6: Sunday.
scheduleHours	hour in which the schedule should be run in 24-hour time.
autoManagementLevel	the level of device management, if automanage is on: 1 - full. 2 - full, management interface only. 3 - full, no interfaces. 4 - basic. 5 - basic, ping only. 6 - web. 7 - none. 8 - CLI (not used).
displayNameUsing	the name to be used in management: • 0 - system. • 1 - resolved. • 2 - resolved FQ. • 3 - polled name. • 4 - IP address.
pollUsing	the method of polling when managed: • 0 - poll using given address. • 1 - use resolved name. • 2 - use resolved name, fallback to given address.
destinationViewPath	viewPath to which to add, if managed.
viewPathHidden	indicates if the viewPath should be hidden due to permissions. If true, this viewPath will be ignored when editing.
probeBitSet	a bitflag for probes to run.



	SOLIWARE
attributes	 custom attributes: tcp_ports udp_ports snmp.ports snmp.excluded_sysoids winrm.ports ssh.ports
lastFinished	the time a discovery finished.
nextRun	the time a discovery is next scheduled to run.
lastRunStatus	 the status of the last run: 0 or -1 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
credentialStatus	not used.
accessMethods	not used.
lastRan	the time a discovery last ran.
status	 current status of this discovery profile: 0 - never ran. 1 - in progress. 2 - complete. 3 - stopped.
percentage	current progress percentage of the discovery, if running.

Shows the settings of the added profile. Uses the parameters shown above.

Examples

Modifying managementLevel:

```
INPUT
    curl -u admin:admin https://localhost/api/autodiscoveryProfiles/5?
    media=json -X POST -H "content-type:application/json" -d \
        '{"autoManagementLevel" : "5"}'

OUTPUT {
    "id" : "5",
    "name" : "default",
    "description" : "migrated from old discovery: default.cfg",
```



```
"zoneId" : 0
"includedAddresses" : "10.55.0-255.0-255",
"excludedAddresses" : "",
"flags" : 6,
"publicServicesBitSet" : 0,
"credentials" : null,
"scheduleBitSet" : 1
"scheduleHours" : 7,
"autoManagementLevel" : 5,
"displayNameUsing" : 3,
"pollUsing" : 1,
"destinationViewPath" : null,
"viewPathHidden" : false,
"probeBitSet" : 6,
"attributes" : {
  "snmp.excluded_sysoids" :
"1.3.6.1.4.1.311.1.1.3.1.2,1.3.6.1.4.1.2.3.1.2.1.1.3,1.3.6.1.4.1.8072.3.2.\\
10, 1.3.6.1.4.1.8072.3.2.3, 1.3.6.1.4.1.311.1.1.3.1.1, 1.3.6.1.4.1.311.1.1.3.\\
1.3,1.3.6.1.4.1.42.2.1.1",
  "snmp.ports" : "161",
  "ssh.ports" : "22",
  "tcp_ports" : "21, 23, 25",
  "winrm.ports" : "5985, 5986"
},
"lastFinished" : 1617295096000,
"nextRun" : 1618207200000,
"lastRunStatus" : -1,
"credentalStatus" : null,
"accessMethods" : [ "Host Detection", "SNMP" ],
"lastRan" : 1617295095000,
"status" : 3,
"percentage" : 0
}
```

DELETE Method detail



Removes the given profile.

Request Parameters

None.

Response data

None.

Examples

Returns an OK code if successful.



Auto Discovery Results

View the results of all Auto Discovery profiles. Applicable to Enuity v19.0 upwards only.

URL: autodiscoveryResults

- Method Summary
- GET Method detail
 - Examples

Method Summary

• GET Method - lists all discovery results.

GET Method detail

Lists all discovery results.

Examples

INPUT

curl -u admin:admin https://localhost/api/autodiscoveryResults?media=json



```
OUTPUT {
          "assets" : [ {
          "id" : 1,
          "parentId" : 0,
          "profileId" : 2,
          "flags" : 0,
          "deviceName" : "madrid-routerb",
          "ipAddr" : "10.200.44.1",
          "deviceType" : null,
         "description" : "Cisco IOS Software, 3600 Software (C3640-A3JS-M),
       Version 12.4(25b), RELEASE SOFTWARE (fc1)\r\nTechnical Support: https://www
        .cisco.com/techsupport\r\ (c) 1986-2009 by Cisco Systems, Inc.
       \r\nCompiled Wed 12-Aug-09 12:52 by prod_rel_team",
          "firstSeenSec" : 1617096367,
         "lastSeenSec" : 1617109294,
         "credentialIds" : {
         "0": 1,
         "2" : 1
          "credentialStatus" : 2,
          "vendor" : null,
          "model" : null,
          "serialNo" : null,
          "location" : "Server Room - Cabinet B",
          "family" : null,
          "managementProtocol" : 2,
          "managementOptions" : "p=2:c=1:r=161",
          "assetCategory" : 1,
          "hypervisor" : null,
          "zoneId" : 0,
          "newAsset" : false,
          "managed" : true,
          "configManagement" : null,
          "managedSinceSec" : 1617097338,
         "managementLevel" : 1
       }, {
```



INPUT curl -u admin:admin https://localhost/api/autodiscoveryResults?media=xml

OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<autoDiscoveryResults xmlns:ns5="http://www.entuity.com/webrpc" xmlns:ns2="</pre> http://www.entuity.com/schemas/webUI" xmlns:ns4="http://www.entuity.com /schemas/eventengine" xmlns:ns3="http://www.entuity.com/schemas/flow">

<assets assetCategory="1" credentialStatus="0" deviceName="mxg.entuity.</pre> local" firstSeenSec="1662542213" flags="0" id="1" ipAddr="10.44.1.110" lastSeenSec="1662542213" managed="false" managementProtocol="0" newAsset=" true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="0" deviceName="10.44.1.93"</pre> firstSeenSec="1662542213" flags="0" id="2" ipAddr="10.44.1.93" lastSeenSec="1662542213" managed="false" managementProtocol="0" newAsset=" true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="1" deviceName="sky.entuity.</pre> local" firstSeenSec="1662542213" flags="0" id="3" ipAddr="10.44.1.23" lastSeenSec="1662542213" managed="false" managementProtocol="0" newAsset=" true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="1" deviceName="dustdevil.</pre> entuity.local" firstSeenSec="1662542213" flags="0" id="4" ipAddr=" 10.44.1.95" lastSeenSec="1662542213" managed="false" managementProtocol=" 0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="1" deviceName="lin64build.</pre> entuity.local firstSeenSec="1662542213" flags="0" id="5" ipAddr=" 10.44.1.11" lastSeenSec="1662542213" managed="false" managementProtocol=" 0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="2" description="Cisco IOS</pre> Software, C2960 Software (C2960-LANBASEK9-M), Version 12.2(58)SE2, RELEASE SOFTWARE (fc1)

Technical Support: http://www.cisco.com /techsupport

Copyright (c) 1986-2011 by Cisco Systems, Inc. & \sharp 10;Compiled Thu 21-Jul-11 02:13 by prod_rel_team" deviceName="bottom2960. entuity.local" firstSeenSec="1662542213" flags="0" id="6" ipAddr=" 10.44.1.41" lastSeenSec="1662542213" location="Server Room - Cabinet A" managed="true" managedSinceSec="1662543949" managementLevel="1" managementOptions="p=2:c=1:r=161" managementProtocol="2" newAsset="false" parentId="0" profileId="2" zoneId="0">

<credentialIds>

<entries>

<key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre> " xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre> /XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>

</entries>

<entries>

<key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre> " xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre> /XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>



</entries>

</credentialIds>

</assets>

<assets assetCategory="1" credentialStatus="1" deviceName="entlonsw01.
entuity.local" firstSeenSec="1662542213" flags="0" id="9" ipAddr="
10.44.1.27" lastSeenSec="1662542213" managed="false" managementProtocol="
0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="2" description="Cisco IOS
Software, C3550 Software (C3550-IPSERVICESK9-M), Version 12.2(44)SE6,
RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2009 by Cisco Systems,
Inc.
Compiled Mon 09-Mar-09 20:28 by gereddy" deviceName="top3550.
entuity.local" firstSeenSec="1662542213" flags="0" id="10" ipAddr="
10.44.1.42" lastSeenSec="1662542213" location="Server Room - Cabinet A"
managed="true" managedSinceSec="1662543964" managementLevel="1"
managementOptions="p=2:c=2:r=161" managementProtocol="2" newAsset="false"
parentId="0" profileId="2" zoneId="0">

<credentialIds>

<entries>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>

</entries>

<entries>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>

</entries>

</credentialIds>

</assets>

<assets assetCategory="1" credentialStatus="2" description="Cisco IOS
Software, C3550 Software (C3550-IPSERVICESK9-M), Version 12.2(44)SE6,
RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2009 by Cisco Systems,
Inc.
Compiled Mon 09-Mar-09 20:28 by gereddy" deviceName="
bottom3550.entuity.local" firstSeenSec="1662542213" flags="0" id="11"
ipAddr="10.44.1.12" lastSeenSec="1662542213" location="Server Room Cabinet A" managed="true" managedSinceSec="1662543978" managementLevel="1"
managementOptions="p=2:c=1:r=161" managementProtocol="2" newAsset="false"
parentId="0" profileId="2" zoneId="0">



```
<credentialIds>
        <entries>
          <key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
        <entries>
          <key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
      </credentialIds>
    </assets>
    <assets assetCategory="1" credentialStatus="2" description="Cisco IOS</pre>
Software, C3750 Software (C3750-IPSERVICESK9-M), Version 12.2(55)SE9,
RELEASE SOFTWARE (fc1)

 Technical Support: http://www.cisco.com
/techsupport

Copyright (c) 1986-2014 by Cisco Systems, Inc.

 Compiled Mon 03-Mar-14 22:45 by prod_rel_team deviceName="stack3750.
entuity.local" firstSeenSec="1662542213" flags="0" id="12" ipAddr='
10.44.1.9" lastSeenSec="1662542213" location="Server Room - Server Rack"
managed="true" managedSinceSec="1662543993" managementLevel="1"
managementOptions="p=2:c=1:r=161" managementProtocol="2" newAsset="false"
parentId="0" profileId="2" zoneId="0">
      <credentialIds>
        <entries>
          <key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
        <entries>
          <key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema wmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
      </credentialIds>
    </assets>
[abbreviated]
```



<assets assetCategory="1" credentialStatus="1" deviceName="tornado.
entuity.local" firstSeenSec="1662542227" flags="0" id="18" ipAddr="
10.44.1.136" lastSeenSec="1662542227" managed="false" managementProtocol="
0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>

<assets assetCategory="1" credentialStatus="2" description="Cisco IOS
Software, C2600 Software (C2600-ADVIPSERVICESK9-M), Version 12.4(19),
RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com
/techsupport
Copyright (c) 1986-2008 by Cisco Systems, Inc.

Compiled Fri 29-Feb-08 19:23 by prod_rel_team" deviceName="r2610.
entuity.local" firstSeenSec="1662542213" flags="0" id="19" ipAddr="
10.44.1.35" lastSeenSec="1662542213" location="Server-Room Cabinet A"
managed="true" managedSinceSec="1662544036" managementLevel="1"
managementOptions="p=2:c=1:r=161" managementProtocol="2" newAsset="false"
parentId="0" profileId="2" zoneId="0">

<credentialIds>

<entries>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>

</entries>

<entries>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>

</entries>

</credentialIds>

</assets>

<credentialIds>

<entries>

<value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>

</entries>

<entries>



```
<key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">2>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
      </credentialIds>
    </assets>
    <assets assetCategory="1" credentialStatus="1" deviceName="pete-demo.</pre>
entuity.local" firstSeenSec="1662542213" flags="0" id="21" ipAddr="
10.44.1.104" lastSeenSec="1662542213" managed="false" managementProtocol="
0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>
    <assets assetCategory="1" credentialStatus="1" deviceName="10.44.2.33"</pre>
firstSeenSec="1662542242" flags="0" id="22" ipAddr="10.44.2.33"
lastSeenSec="1662542242" managed="false" managementProtocol="0" newAsset="
true" parentId="0" profileId="2" zoneId="0"/>
    <assets assetCategory="1" credentialStatus="0" deviceName="10.44.2.34"</pre>
firstSeenSec="1662542242" flags="0" id="23" ipAddr="10.44.2.34"
lastSeenSec="1662542242" managed="false" managementProtocol="0" newAsset="
true" parentId="0" profileId="2" zoneId="0"/>
    <assets assetCategory="1" credentialStatus="0" deviceName="SYN-ENT-01"</pre>
firstSeenSec="1662542242" flags="0" id="24" ipAddr="10.44.2.35"
lastSeenSec="1662542242" managed="false" managementProtocol="0" newAsset="
true" parentId="0" profileId="2" zoneId="0"/>
    <assets assetCategory="1" credentialStatus="0" deviceName="sulphur.</pre>
entuity.local" firstSeenSec="1662542242" flags="0" id="25" ipAddr="
10.44.2.122" lastSeenSec="1662542242" managed="false" managementProtocol="
0" newAsset="true" parentId="0" profileId="2" zoneId="0"/>
    <assets assetCategory="1" credentialStatus="2" description="APC Web</pre>
/SNMP Management Card (MB:v3.8.6 PF:v5.1.3 PN:apc_hw05_aos_513.bin AF1:v5.
1.3 AN1:apc_hw05_sumx_513.bin MN:AP9630 HR:05 SN: ZA1109016383 MD:03/01
/2011) (Embedded PowerNet SNMP Agent SW v2.2 compatible) deviceName="
10.44.1.65" firstSeenSec="1662542213" flags="0" id="26" ipAddr="
10.44.1.65" lastSeenSec="1662542213" location="London" managed="true"
managedSinceSec="1662544040" managementLevel="1" managementOptions="p=2:
c=1:r=161" managementProtocol="2" newAsset="false" parentId="0" profileId="
2" zoneId="0">
[abbreviated]
      <credentialIds>
        <entries>
          <key xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001/XMLSchema</pre>
" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">0>
          <value xsi:type="xs:int" xmlns:xs="http://www.w3.org/2001</pre>
/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">1>
        </entries>
        <entries>
```





Auto Discovery Result

View the results of a specific Auto Discovery profile. Applicable to Enuity v19.0 upwards only.

URL: autodiscoveryResults/{id}

- Method Summary
- GET Method detail
 - Examples

Method Summary

• GET Method - lists the results of a specific Auto Discovery profile.

GET Method detail

Lists the results of a specific Auto Discovery profile.

INPUT	<pre>curl -u admin:admin https://localhost/api/autodiscoveryResults/5?</pre>
	media=ison



```
OUTPUT | {
           "assets" : [ {
             "id" : 5,
             "parentId" : 0,
             "profileId" : 12,
             "flags" : 0,
             "devicename" : "one.one.one.one",
             "ipAddr" : "1.1.1.1",
             "deviceType" : null,
             "description" : null,
             "firstSeenSec" : 1617720151,
             "lastSeenSec" : 1617720151,
             "credentialIds" : null,
             "credentialStatus" : 0,
             "vendor" : null,
             "model" : null,
             "serialNo" : null,
             "location" : null,
             "family" : null,
             "managementProtocol" : 0,
             "managementOptions" : null,
             "assetCategory" : 1,
             "hypervisor" : null,
             "zoneId" : 0,
             "newAsset" : true,
             "managed" : false,
             "configManagement" : null,
             "managedSinceSec" : null,
             "managementLevel" : null
           } ]
        }
```



Product Info

Details information about the installed version of Entuity/ENA.

URL: info

- Method Summary
- GET Method detail
 - Response
 - Examples

Method Summary

• GET Method - returns information about the installed version of Entuity/ENA.

GET Method detail

Returns information about the installed version of Entuity/ENA.

Response

Response is an object with the following attributes:

Name	Description
hostAddress	host name for accessing the product.
id	server ID.
product	product edition.
ssIAccess	specifies to use HTTP (false) or HTTPS (true)
version	product version.
versionDisplay	user-friendly version string of the product.
webPort	port number for accessing the product over HTTP(S).

INPUT curl -u admin:admin https://localhost/api/info?media=json



```
OUTPUT {
    "id": "34564e92-3b4f-43ba-94a8-04309c0e48fe",
    "version": "17.0.0.p0",
    "versionDisplay": "Entuity 17.0",
    "product": "EYE",
    "hostAddress": "ENTLONDEV08",
    "webPort": 80,
    "sslAccess": false
    }
```

INPUT	curl -u admin:admin https://localhost/api/info?media=xml
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <serverinfo hostaddress="ENTLONDEV08" id=" 34564e92-3b4f-43ba-94a8-04309c0e48fe" product="EYE" sslaccess="false" version="17.0.0.p0" versiondisplay="Entuity 17.0" webport="80"></serverinfo></pre>



Servers

List servers.

URL: servers

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
 - Examples

Method Summary

• GET Method - lists Entuity servers (XML, JSON).

GET Method detail

Lists Entuity servers, in either XML or JSON format.

Request Parameters

None

Response data keys

Name	Description
count	number of servers.
servers	list of servers.
server	 Server summary details, with the following attributes: hostname: DNS name of the host Id: Unique server Identifier.

INPUT	curl -u admin:admin https://localhost/api/servers?media=json



INPUT	curl -u admin:admin https://localhost/api/servers?media=xml
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <items count="1"></items></pre>
	<pre><item id="34564e92-3b4f-43ba- 94a8-04309c0e48fe" name="ENTLONDEV08" serverid="34564e92-3b4f-43ba-94a8-04309c0e48fe" xmlns:="" xsi="https://www.w3.org/2001/XMLSchema-instance" xsi:type="namedItem"></item> </pre>



Servers Details

List details of a server.

URL: servers/{serverId}

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
 - Examples

Method Summary

• GET Method - list details of a server (XML, JSON).

GET Method detail

List details of a server, in either XML or JSON format.

Request Parameters

None

Response data keys

Name	Description	
centralServer	if the server is a Central Server: True or False.	
hostname	name of host running the Entuity server.	
included	if the server provides results in a multi server system: True or False.	
licensed	if the server is licensed: True or False.	
local	if this server is the one servicing the request: True or False	
role	role of the server: Polling, FlowCollector, ESPServer.	
serverId	unique server identifier.	
ssl	if the server is configured to use Secure Socket Layer: True or False.	
webPort	port number of the web server.	



INPUT	curl -u admin:admin https://localhost/api/servers/34564e92-3b4f-43ba-94a8-04309c0e48fe?media=xml	
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <entuityserver centralserver="false" included=" true" licensed="true" local="true" name="ENTLONDEV08" role="Polling" serverid="34564e92-3b4f-43ba-94a8-04309c0e48fe" ssl="false" webport="80"></entuityserver></pre>	



User Groups

This resource lists general information about user groups.

URL: userGroups

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists available user groups.
- POST Method creates a new user group.

GET Method detail

Lists available user groups. For non-administrators, the list is restricted to the groups to which the user currently belongs.

Response

Response includes a list of user groups. Each user group has the following attributes:

Name	Description
id user group id unique to the server.	
name	user group name.
serverId	Entuity Server Id on which resource resides.

alhost/api/userGroups?media=json	INPUT
----------------------------------	-------



```
OUTPUT

{
    "items": [
        {
             "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
             "id": "1",
             "name": "Administrators"
        },
        {
             "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
             "id": "2",
             "name": "All Users"
        }
        l,
        "count": 2
}
```

POST Method details

Creates a new group of users.

Request

Name	Description
Name	name of the group.



Response

The updated list of user groups, as the GET method would return them.

```
INPUT
         curl -u admin:admin https://localhost/api/userGroups?media=json -X POST -
         H "content-type:application/xml" -d \
           "name" : "Support"
         }'
OUTPUT
        {
           "items": [
             {
               "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
               "id": "1",
               "name": "Administrators"
            },
               "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
               "id": "2",
               "name": "All Users"
            },
               "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
               "id": "6",
               "name": "Support"
           ],
           "count": 3
         }
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <items count="3">

> <item xsi:type="namedItem" name="Administrators" id="1" serverId="</pre> ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a" xmlns:xsi="https://www.w3.org/2001 /XMLSchema-instance"/>

<item xsi:type="namedItem" name="All Users" id="2" serverId="ee934fe2-</pre> 1f4d-4f1e-a0b5-a87b261eb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchemainstance"/>

<item xsi:type="namedItem" name="Support" id="6" serverId="ee934fe2-</pre> 1f4d-4f1e-a0b5-a87b261eb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchemainstance"/>

</items>



User Group Details

Lists a set of operations on a particular group.

URL: userGroups/{groupID}

- Methods Summary
- DELETE Method details
 - Response
 - Examples

Methods Summary

• DELETE Method - deletes the user group.

DELETE Method details

Deletes the user group.

Response

The updated list of user groups, as GET method would return them.

Examples

INPUT

curl -u admin:admin https://localhost/api/userGroups/3?media=json -X
DELETE



```
OUTPUT {
    "items": [ {
        "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
        "id": "1",
        "name": "Administrators"
    }, {
        "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
        "id": "2",
        "name": "All Users"
    } ],
    "count": 2
}
```



User Group Permissions

Lists and modifies the set of tools accessible to a user group.

URL: userGroups/{groupID}/tools

- Methods Summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists tools that this user group has permission to access.
- PUT Method modifies the list of tools that this user group has permission to access.

GET Method details

The list of tools that this group has a permission to access.

Response

List of items, each one according to the following format:

Name	Description
id	tool ID.
nametool name.subgroupthe name of subgroup that given tool is a part of	

INPUT	curl -u admin:admin https://localhost/api/userGroups/6/tools?media=json



```
OUTPUT {
    "items": [],
    "count": 0
}
```

PUT Method details

Modifies the list of tools to which the user group has permission to access.

Request

The list of tool IDs.

Response

The updated list of group permissions, as the GET method would return them.

```
INPUT

curl -u admin:admin https://localhost/api/userGroups/6/tools?media=json
X PUT -H "content-type:application/json" -d \

'{
    "tools" : [ {
        "id" : 15
    }, {
        "id" : 89
    } ]
}'
```



```
OUTPUT

    "items" : [ {
        "id" : 15,
        "toolName" : "Ticker",
        "groupName" : "Tools"
    }, {
        "id" : 89,
        "toolName" : "Data Export",
        "groupName" : "Administrator Tools"
    } ],
    "count" : 2
}
```

```
INPUT
         curl -u admin:admin https://localhost/api/userGroups/6?media=xml -X PUT -
         H "content-type:application/xml" -d \
         '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
         <groupToolsWrapper>
           <tool id="15" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"/>
           <tool id="89" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"/>
         </groupToolsWrapper>'
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="2">
          <item xsi:type="toolId" groupName="Tools" id="15" toolName="Ticker"</pre>
        xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"/>
          <item xsi:type="toolId" groupName="Administrator Tools" id="89"</pre>
        toolName="Data Export" xmlns:xsi="https://www.w3.org/2001/XMLSchema-
        instance"/>
        </items>
```



Tools

Lists tools available on the server.

URL: tools

- Methods summary
- GET Method details
 - Response
 - Examples

Methods summary

• GET Methods - lists all tools available on the server.

GET Method details

Lists all tools available on the server.

Response

The list of tools are grouped into subgroups, where every entry has the following format:

Method	Description
id	tool ID.
name	the name of the tool.

INPUT	curl -u admin:admin https://localhost/api/tools?media=json



```
OUTPUT {
           "items" : [ {
             "subgroup" : "Administrator Tools",
             "tools" : [ {
              "id" : 79,
              "name" : "Event Administration"
            ...removed for brevity...
              "id" : 111,
              "name" : "UD Polling"
            } ]
           \ldotsremoved for brevity\ldots
             "subgroup" : "Tools",
            "tools" : [ {
              "id" : 15,
              "name" : "Ticker"
             ...removed for brevity...
            }, {
              "id" : 112,
              "name" : "Configuration Management"
          ...removed for brevity...
          } ],
          "count" : 6
        }
```

```
INPUT curl -u admin:admin https://localhost/api/tools?media=xml
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <items count="6"> <item xsi:type="toolsGroup" xmlns:xsi="https://www.w3.org/2001</pre> /XMLSchema-instance"> <subgroup>Administrator Tools/subgroup> <tools> <tools name="Event Administration" id="79"/> ...removed for brevity... <tools name="UD Polling" id="111"/> </tools> </item> ...removed for brevity... <item xsi:type="toolsGroup" xmlns:xsi="https://www.w3.org/2001</pre> /XMLSchema-instance"> <subgroup>Tools</subgroup> <tools> <tools name="Ticker" id="15"/> ...removed for brevity... <tools name="Configuration Management" id="112"/> </tools> </item> ...removed for brevity... </items>



Users

Lists information about users.

URL: users

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Example

Methods Summary

- · GET Method lists available users.
- POST Method creates a new user.

GET Method detail

The list of users returned is restricted for non-administrators: only the user object corresponding to the current user is returned.

Response

Response includes a list of users. Each user has following attributes.

Name	Description
id	User id unique to the server
name	User name
serverId	Entuity Server Id on which resource resides

ttps://localhost/api/users?media=json	INPUT
---------------------------------------	-------



```
OUTPUT {
    "items": [ {
        "serverId": "ee934fe2-1f4d-4fle-a0b5-a87b26leb30a",
        "id": "3",
        "name": "admin"
        } ],
        "count": 1
    }
```

POST Method details

Creates a new user.

Request

Name	Description
name	username.
password	user password.

Response

The list of users after an update, as GET method would return them.



```
INPUT
         curl -u admin:admin https://localhost/api/users?media=json -X POST -H
         "content-type:application/json" -d \
         ' {
           "name" : "John",
           "password" : "little"
         }'
OUTPUT
        {
           "items": [ {
               "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
               "id": "6",
               "name": "John"
            }, {
               "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
               "id": "3",
               "name": "admin"
             } ],
           "count": 2
        }
```

```
curl -u admin:admin https://localhost/api/users?media=xml -X POST -H
  INPUT
                                       "content-type:application/xml" -d \
                                        '<userPasswordWrapper>
                                                         <name>John</name>
                                                        <password>little</password>
                                       </userPasswordWrapper>'
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
                                    <items count="2">
                                                      <item xsi:type="namedItem" name="John" id="6" serverId="ee934fe2-1f4d-</pre>
                                    4fle-a0b5-a87b26leb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchema-
                                    instance"/>
                                                       <item xsi:type="namedItem" name="admin" id="3" serverId="ee934fe2-</pre>
                                    1f4d-4f1e-a0b5-a87b261eb30a" \ xmlns:xsi="https://www.w3.org/2001/XMLSchema-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-warder-w
                                    instance"/>
                                     </items>
```



User Details

List detailed user information, modify parameters of a user, and delete a user.

URL: users/{userID}

- Methods summary
- **GET Method details**
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- **DELETE Method details**

 - ResponseExamples

Methods summary

- GET Method lists detailed user info.
- PUT Method modifies parameters of a user.
- DELETE Method deletes user.

GET Method details

Returns detailed information about the given user.

Response

User info structure with the following format:

Name	Description
id	user ID.
name	name of the user.
lockAttempts	number of failed login attempts before locking the account. Value -1 to disable.
lockDurationFailedAtte mpts	duration (minutes) the account is locked for after reaching maximum failed attempts.
expiryDays	Unix timestamp of the date on which the account will expire. Value -1 to disable.
timeoutMinutes	number of minutes after which session becomes inactive. Value -1 to disable.



pwChangeDays	days to password change. Value -1 to disable.
pwChangeNoticePeriod	number of days to display a warning before a password change is required. Value 0 to disable.
forcePWChange	whether the user needs to change their password.
groups	list of groups that this user is a member of.
locked	"locked" status of the user.
admin	if the user is admin.
expired	if the user account expired.
overrideGlobalUserSett ings	if false, the user settings will always match the global user settings. Must be set to true to override global user settings.

```
INPUT
         curl -u admin:admin https://localhost/api/users/6?media=json
OUTPUT | {
          "id" : 6,
          "name" : "John",
          "lockAttempts" : 3,
          "lockDurationFailedAttempts" : 5,
          "expiryDays" : 1561814580,
          "timeoutMinutes" : 20,
          "pwChangeDays" : 90,
          "forcePWChange" : false,
          "passwordExpiryNoticePeriod" : 5,
          "groups" : [ "All Users" ],
          "overrideGlobalUserSettings" : false,
           "locked" : false,
          "admin" : false
          "expired" : false,
        }
```

```
INPUT curl -u admin:admin https://localhost/api/users/6?media=xml
```



PUT Method details

Modifies parameters of a user.

Request

Name	Description
lockAttempts	number of failed login attempts before locking the account. Value -1 to disable.
lockDurationFailedAtte mpts	the duration (in minutes) for which the account is locked after reaching the maximum number of failed attempts.
expiryDays	Unix timestamp of the date on which the account will expire. Value -1 to disable.
timeoutMinutes	number of minutes after which session becomes inactive. Value -1 to disable.
pwChangeDays	days to password change. Value -1 to disable.
pwChangeNoticePeriod	the number of days to display a warning before a password change is required. Value 0 to disable.
forcePWChange	if the user needs to change their password.
groups	list of groups that this user is a member of.
overrideGlobalUserSett ings	if false, the user settings will always match the global user settings. Must be set to true to override global user settings.

Response

Detailed information about the user after changes, as the GET method would return it.



```
INPUT
         curl -u admin:admin https://localhost/api/users/6?media=json -X PUT -H
         "content-type:application/json" -d \
         ' {
           "lockAttempts": 3,
           "expiryDays" : 1579800600,
         }'
OUTPUT
        {
           "id" : 6,
           "name" : "John",
           "lockAttempts" : 3,
           "lockDurationFailedAttempts" : 5,
           "expiryDays" : 1579800600,
           "timeoutMinutes": 20,
           "pwChangeDays" : 90,
           "forcePWChange" : false,
           "passwordExpiryNoticePeriod" : 5,
           "groups" : [ "All Users" ],
           "overrideGlobalUserSettings" : true,
           "locked" : false,
          "expired" : true
           "admin" : false,
        }
```



DELETE Method details

Deletes user account.

Response

The updated list of users, as the GET method of URL "users" would return it.

```
INPUT curl -u admin:admin https://localhost/api/users/6?media=xml -X DELETE
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="1">
```

<item xsi:type="namedItem" name="admin" id="3" serverId="ee934fe2-1f4d-</pre> 4fle-a0b5-a87b26leb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchemainstance"/>

</items>



User's Groups

List the groups a particular user is a member of.

URL: users/{userID}/groups

- Methods summary
- GET Method details
 - Response
 - Examples

Methods summary

• GET Method - lists the groups a particular use is a member of.

GET Method details

Returns a list of the groups that the user is a member of.

Response

Name	Description
Items	the user groups that the user is a member of.
Count	number of user groups that the user is a member of.

```
INPUT      curl -u admin:admin https://localhost/api/users/3/groups?media=json

OUTPUT      {
          "items" : ["All Users", "Administrators"],
          "count" : 2
          }
}
```

```
INPUT curl -u admin:admin https://localhost/users/3/groups?media=xml
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<items count="2" xmlns:ns5="https://www.entuity.com/webrpc" xmlns:ns2="</pre> https://www.entuity.com/schemas/webUI" xmlns:ns4="https://www.entuity.com /schemas/eventengine" xmlns:ns3="https://www.entuity.com/schemas/flow">

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre> /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">All Users</item>>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001</pre> /XMLSchema" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance" >Administrators</item>>

</items>



Global User Settings

List global user settings, modify global user settings, and update all existing users to those global user settings.

URL:

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Response
 - Examples
- POST Method details
 - Response
 - Examples

Methods summary

- GET Method returns details about global user settings.
- PUT Method modifies global user settings.
- POST Method update all existing users to the global settings.

GET Method details

Returns details about global user settings.

Response

Global user setting structure with the following format:

Name	Description
lockAttempts	number of failed login attempts before locking the account. Value -1 to disable.
lockDurationFailedAtte mpts	duration (minutes) the account is locked for after reaching maximum failed attempts.
timeoutMinutes	number of minutes after which session becomes inactive. Value -1 to disable.
pwChangeDays	days to password change. Value -1 to disable.
pwChangeNoticePeriod	number of days to display a warning before a password change is required. Value 0 to disable.



```
INPUT
    curl -u admin:admin https://localhost/api/settings/globalUserSettings?
media=json

OUTPUT {
    "pwChangeDays" : 30,
    "pwChangeNoticePeriod" : 10,
    "timeoutMinutes" : 20,
    "lockAttempts" : 3,
    "lockDurationFailedAttempts" : 5,
}
```

PUT Method details

Modifies global user settings.

Response

Name	Description
lockAttempts	number of failed login attempts before locking the account. Value -1 to disable.
lockDurationFailedAtte mpts	duration (minutes) the account is locked for after reaching maximum failed attempts.
timeoutMinutes	number of minutes after which session becomes inactive. Value -1 to disable.
pwChangeDays	days to password change. Value -1 to disable.
pwChangeNoticePeriod	number of days to display a warning before a password change is required. Value 0 to disable.

```
INPUT
curl -u admin:admin https://localhost/api/settings/globalUserSettings?
media=xml -X PUT -H "content-type:application/json" -d \
    '{
        "lockAttempts" : 5,
        "lockDurationFailedAttempts" : 10
}'
```



```
OUTPUT
{
    "pwChangeDays" : 30,
    "pwChangeNoticePeriod" : 10,
    "timeoutMinutes" : 20,
    "lockAttempts" : 5,
    "lockDurationFailedAttempts" : 10,
}
```

POST Method details

Updates existing users to the global user settings.

Response

Name	Description
messsage	if the user settings reset for all existing users was successful. User-specific settings are not affected.

```
INPUT curl -u admin:admin https://localhost/api/settings/globalUserSettings
/resetAllUsersSettings -X POST -H "content-type:application/json"

OUTPUT {
    "message" : "Success. All existing users settings now match the global user settings. User-specific settings are not affected."
    }
```



Global Password Complexity Settings

List global password complexity settings, and modify global password complexity settings.

URL:

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Response
 - Examples

Methods summary

- GET Method returns global password complexity settings.
- PUT Method modifies global password complexity settings.

GET Method details

Returns details about global password complexity settings.

Response

Global password complexity settings structure with the following format:

Name	Description
pwdMinLength	minimum length of password.
pwdHistoryLimit	prevent recent previous passwords from being reused (limit 10).
pwdReqUpperCase	specifies if password needs uppercase.
pwdReqLowerCase	specifies if password needs lowercase.
pwdReqNumeric	specifies if password needs numeric characters.
pwdReqSpecial	specifies if password needs special characters.
pwdReqOTP	when a user is created, the password is automatically expired.



PUT Method details

Modifies global user settings.

Response

Global password complexity settings structure with the following format:

Name	Description
pwdMinLength	minimum length of password.
pwdHistoryLimit	prevent recent previous passwords from being reused (limit 10).
pwdReqUpperCase	specifies if password needs uppercase.
pwdReqLowerCase	specifies if password needs lowercase.
pwdReqNumeric	specifies if password needs numeric characters.
pwdReqSpecial	specifies if password needs special characters.
pwdReqOTP	when a user is created, the password is automatically expired.



```
INPUT
        curl -u admin:admin https://localhost/api/settings
        /globalPasswordComplexitySettings -X PUT -H "content-type :application
        /json" -d \
        ' {
        "pwdHistoryLimit" : 4,
        "pwdMinLength": 8,
        "pwdReqNumeric" : true,
        "pwdReqLowerCase" : true,
        "pwdReqUpperCase" : true,
        "pwdReqSpecial" : true,
        "pwdReqOTP" : true }'
OUTPUT {
          "pwdHistoryLimit" : 4,
          "pwdMinLength" : 8,
          "pwdReqNumeric" : true,
          "pwdReqLowerCase" : true,
          "pwdReqUpperCase" : true,
          "pwdReqSpecial" : true,
          "pwdReqOTP" : true
       }
```



View List

List available Views or create a new View.

URL: views

- Method Summary
- GET Method detail
 - Response
 - Examples
- POST Method detail
 - Request
 - Response
 - Examples

Method Summary

- GET Method lists available Views.
- POST Method create a new View.

GET Method detail

Lists available Views.

Response

Response includes a list of Views. Each View has the following attributes.

Name	Description
displayName	View name.
id	View id unique to the server.
path	View path with forward slash as a sub-view separator.
serverld	Entuity Server Id on which resource resides.

INPUT	curl -u admin:admin https://localhost/api/views?media=json
-------	------------------------------------------------------------



```
OUTPUT

"items" : [ {
    "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
    "id" : "1",
    "displayName" : "All Objects",
    "path" : "All Objects"
}, {
    "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
    "id" : "2",
    "displayName" : "My Network (admin)",
    "path" : "admin::My Network"
} 1,
    "count" : 2
}
```

POST Method detail

Creates a new View.

Request

Request is an object which may contain a subset of following properties:

Name	Description
accessGroups	array of access objects, specifying view access permissions.



baseViewAggregation	A way to aggregate base views: One of NONE (default), UNION or INTERSECTION.
baseViewPaths	array of base views
domainFilterName	name of the domain filter to use
eventFilterName	name of the event filter to use
incidentFilterName	name of the incident filter to use
name	name of the View being created.
owner	username of the user who will be an owner of the View. This defaults to the user making a call. Only administrators may specify a user other than themselves.
parentViewPath	forward-slash separated path of the parent view. Leave out to create a top-level view.
location	location of the View, which is used by the Map dashlet in Geographical Mode.

Response

The updated list of Views, as when the GET response is used.

Examples

You can create different Views using the following commands. The following are examples for the createView.json file:

To create a top-level View with most information set to default:

```
INPUT
    curl -u admin:admin -H "content-type:application/json" https://localhost
/api/views -X POST -d \
    '{
         "name" : "Simple View"
}'
```



```
OUTPUT |
        "items" : [ {
         "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
          "displayName" : "My Network/All Objects",
           "path" : "admin::My Network/All Objects"
           "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
           "id" : "2",
           "displayName" : "My Network",
           "path" : "admin::My Network"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "displayName" : "My Network/Simple View",
           "path" : "admin::My Network/Simple View"
          } ],
          "count" : 3
        }
```

To create a top-level View with filter information provided:

```
INPUT

curl -u admin:admin -H "content-type:application/json" https://localhost
/api/views -X POST -d \

    "{

        "name" : "MyView",

        "domainFilterName" : "All Objects",

        "eventFilterName" : "All Events",

        "incidentFilterName" : "All Incidents"

}'
```



```
OUTPUT | {
          "items : [ {
            "serverId" : 305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "displayName" : "My Network/All Objects",
            "path" : "admin::My Network/All Objects",
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "2",
            "displayName" : "My Network",
            "path" : "admin::My Network"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "4",
            "displayName" : "My Network/Simple View
            "path" : "admin::My Network/Simple View"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "6",
            "displayName" : "My Network/MyView",
            "path" : "admin::My Network/MyView"
          } ],
          "count" : 4
        }
```

To create a Subview:

```
INPUT

curl -u admin:admin https://localhost/api/views -X POST -H "content-type:
    application/json" -d \
    '{
        "name" : "SubView",
        "parentViewPath" : "MyView"
    }'
```



```
OUTPUT | {
          "items" : [ {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "1",
            "displayName" : "My Network/All Objects",
            "path" : "admin::My Network/All Objects"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "2",
            "displayName" : "My Network",
            "path" : "admin::My Network"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "4",
            "displayName" : "My Network/Simple View",
            "path" : "admin::My Network/Simple View"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "6",
            "displayName" : "My Network/MyView",
            "path" : "admin::My Network/MyView"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "7",
            "displayName" : "My Network/MyView/SubView",
            "path" : "admin::My Network/MyView/SubView"
          }, {
          "count" : 5
        }
```

To create a View that unions contents from the base Views:



```
INPUT

curl -u admin:admin https://localhost/api/views -X POST -H "content-type:
    application/json" -d \
    '{
        "name" : "Union View",
        "baseViewAggregation" : "UNION",
        "baseViewPaths" : [ "MyView", "My Top View/Second-Level View/SubView" ]
}'
```



```
OUTPUT | {
          "items" : [ {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "1",
            "displayName" : "My Network/All Objects",
            "path" : "admin::My Network/All Objects"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "2",
            "displayName" : "My Network",
            "path" : "admin::My Network"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "4",
            "displayName" : "My Network/Simple View",
            "path" : "admin::My Network/Simple View"
          }, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "6",
            "displayName" : "My Network/MyView",
            "path" : "admin::My Network/MyView"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "7",
            "displayName" : "My Network/MyView/SubView",
            "path" : "admin::My Network/MyView/SubView"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "8",
            "displayName" : "My Network/Union View",
            "path" : "admin::My Network/Union View"
          }, {
          "count" : 6
        }
```



To create a View that intersects contents from the base Views:

```
INPUT
         curl -u admin:admin https://localhost/api/views -X POST -H "content-type:
         application/json" -d \
           "name" : "Intersection View",
           "baseViewAggregation" : "INTERSECTION",
           "baseViewPaths" : [ "MyView", "MyView/SubView" ]
         }'
OUTPUT | {
          "items" : [ {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "1",
            "displayName" : "My Network/All Objects",
            "path" : "admin::My Network/All Objects"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "2",
            "displayName" : "My Network",
            "path" : "admin::My Network"
          }, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "4",
            "displayName" : "My Network/Simple View",
            "path" : "admin::My Network/Simple View"
          }, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "6",
            "displayName" : "My Network/MyView",
            "path" : "admin::My Network/MyView"
          }, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
             "id" : "7",
             "displayName" : "My Network/MyView/SubView",
             "path" : "admin::My Network/MyView/SubView"
```



```
"serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
"id" : "8",
"displayName" : "My Network/Union View",
"path" : "admin::My Network/Union View"
}, {

"serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
"id" : "9",
"displayName" : "My Network/Intersection View",
"path" : "admin::My Network/Intersection View"
}, {
"count" : 7
}
```

To create a View with a specific owner and access rights:

```
curl -u admin:admin https://localhost/api/views -X POST -H "content-type:
INPUT
         application/json" -d \
           "name" : "John's View",
           "owner" : "John",
           "accessGroups" : [ {
             "userGroupName" : "Support",
             "editable" : "true"
           }, {
             "userGroupName" : "All Users",
            "editable" : "false"
           } ]
         } '
OUTPUT {
          "items" : [, {
            "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
            "id" : "1",
             "displayName" : "My Network/All Objects",
```



```
"path" : "admin::My Network/All Objects"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "2",
  "displayName" : "My Network",
  "path" : "admin::My Network"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "4",
  "displayName" : "My Network/Simple View",
  "path" : "admin::My Network/Simple View"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "6",
  "displayName" : "My Network/MyView",
  "path" : "admin::My Network/MyView"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "7",
  "displayName" : "My Network/MyView/SubView",
  "path" : "admin::My Network/MyView/SubView"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "8",
  "displayName" : "My Network/Union View",
  "path" : "admin::My Network/Union View"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "9",
  "displayName" : "My Network/Intersection View",
  "path" : "admin::My Network/Intersection View"
}, {
  "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
  "id" : "11",
  "displayName" : "My Network/Johns View",
  "path" : "admin::My Network/Johns View"
```



```
}, {
    "count" : 8
{
```

To create a top-level View with a specified location:

```
INPUT
         curl -u admin:admin https://localhost/api/views -X
         POST -H "content-type:application/json" -d \
           "name" : "London Branch",
           "owner" : "admin",
           "accessGroups" : [ {
           "userGroupName" : "All Users",
           "editable" : "true"
           } ],
           "location" : "london, uk"
         }'
OUTPUT
           "items" : [, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
             "id" : "1",
             "displayName" : "My Network/All Objects",
             "path" : "admin::My Network/All Objects"
          }, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
             "id" : "2",
             "displayName" : "My Network",
             "path" : "admin::My Network"
          }, {
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
             "id" : "4",
             "displayName" : "My Network/Simple View",
             "path" : "admin::My Network/Simple View"
             "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
             "id" : "6",
             "displayName" : "My Network/MyView",
```



```
"path" : "admin::My Network/MyView"
  }, {
    "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
    "id" : "7",
    "displayName" : "My Network/MyView/SubView",
    "path" : "admin::My Network/MyView/SubView"
 }, {
    "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
    "id" : "8",
    "displayName" : "My Network/Union View",
    "path" : "admin::My Network/Union View"
  }, {
    "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
    "id" : "9",
    "displayName" : "My Network/Intersection View",
    "path" : "admin::My Network/Intersection View"
 }, {
    "serverId" : "305df7e4-408d-4db5-a05e-b2d847ca78f0",
    "id" : "11",
    "displayName" : "My Network/Johns View",
    "path" : "admin::My Network/Johns View"
 },{
   "serverId": "293bd62c-413f-4f79-a529-0a0c836bec84",
   "id": "12",
   "displayName": "My Network/London Branch",
   "path": "admin::My Network/London Branch"
}],
  "count" : 9
}
```



View Details

Inspect, update or delete a View.

URL: views/{id}

- Method Summary
- **GET Method detail**
 - Response
 - Examples
- PUT Method detail
 - Request
 - Response
 - Examples
- **DELETE Method detail**

 - RequestResponse
 - Examples

Method Summary

- GET Method inspect a View.
- PUT Method update a View.
- DELETE Method delete a View.

GET Method detail

Response

Response is the entity with the following attributes:

Name	Description
accessGroups	group access permissions.
baseViewAggregation	one of NONE, UNION, INTERSECTION.
baseViewPaths	array of base View paths.
displayName	View name.
domainFilterName	domain filter name.
eventFilterName	event filter name.
id	View id unique to the server.



implicitAccessGroups	groups having implicit access by virtue of inheriting access through other group permissions, such as having access to the parent View. This may be indirect, e.g. access to the grandparent or great-grandparent.
implicitAccessUsers	users having implicit access by virtue of inheriting access through other user permissions, such as having access to the parent View. This may be indirect, e.g. access to the grandparent or great-grandparent.
incidentFilterName	incident filter name.
manuallyPopulated	if contents of the View are populated manually (true) or automatically (false).
owner	user owning a View.
path	View path.
serverId	Entuity Server Id on which resource resides.
location	geographical location of the View, used by the map dashlet in Geographical Mode. If the string is left empty, the location value will be removed from the View.
lat	latitude of the location. If latitude is specified, then a location must be specified.
Ing	longitude of the location. If longitude is specified, then a location must be specified.

INPUT	curl -u admin:admin https://localhost/api/views/5?media=json



```
OUTPUT | {
           "serverId" : "5bc28880-465b-4228-9f0c-45ab88487f83",
           "id" : "5",
           "path" : "admin::My Network/Servers",
           "displayName" : "My Network/Servers",
           "baseViewAggregation" : "NONE",
           "baseViewPaths" : [ ],
           "domainFilterName" : "All Objects",
           "manuallyPopulated" : true,
           "eventFilterName" : "All Events",
           "incidentFilterName" : "All Incidents",
           "owner" : "admin",
           "accessGroups" : [ {
             "userGroupName" : "Administrators",
             "editable" : true
          } ],
           "implicitAccessGroups" : [ ],
           "implicitAccessUsers" : [ ]
           "location" : "",
           "lat" : 0.0,
           "lng" : 0.0
        }
```

PUT Method detail

Update existing View.



Request

Request has the same structure as the POST request of views resource for adding a new view, except the following property must be absent: **parentViewPath.** You need to specify only properties you want to be changed.

Response

Response has the same structure as the GET response: shows View details after the update.

Examples

curl -u admin:admin -H "content-type:application/json" -X PUT --data @updateView.json https://localhost/api/views /48

```
curl -u admin:admin https://localhost/api/views/5 -X PUT -H "content-
INPUT
         type:application/json" -d \
         ' {
           "owner" : "user"
         } '
OUTPUT
        {
           "serverId" : "5bc28880-465b-4228-9f0c-45ab88487f83",
           "id" : "5",
           "path" : "admin::My Network/Servers",
           "displayName" : "My Network/Servers",
           "baseViewAggregation" : "NONE",
           "baseViewPaths" : [ ],
           "domainFilterName" : "All Objects",
           "manuallyPopulated" : true,
           "eventFilterName" : "All Events",
           "incidentFilterName" : "All Incidents",
           "owner" : "user",
           "accessGroups" : [ {
             "userGroupName" : "Administrators",
             "editable" : true
           "implicitAccessGroups" : [ ],
           "implicitAccessUsers" : [ ]
           "lat" : 0.0,
           "lng" : 0.0
        }
```



DELETE Method detail

Delete existing View.

Request

No request expected.

Response

Empty response.

Examples

Delete View with id 48.

INPUT	curl -u admin:admin https://localhost/api/views/48 -X DELETE
OUTPUT	[]



View Objects

Inspect, add or delete View objects.

URL: views/{id}/objects

- **Method Summary**
- **GET Method detail**
 - Request
 - Response
 - Examples
- PUT Method detail
 - Request
 - Response
 - Examples
- DELETE Method detail

 - RequestResponse
 - Examples

Method Summary

- GET Method list View objects.
- PUT Method add objects to a View.
- DELETE Method remove objects from a View.

GET Method detail

Method returns objects contained in a View.

Request

The following query parameter can be specified:

Name	Description
indirect	set to a special value "include" to return objects from Subviews as well. By default, objects from Subviews are not included.
includedTypes	specify the types of object to include in the returned list of StormWorks type names, e.g. Service, VPNDevice. Can be used in conjunction with excludedTypes below.
excludedTypes	specify the types of object to exclude from the returned list of StormWorks type names. Can be used in conjunction with includedTypes above.

Response



List of items. Each item has the following properties:

Name	Description
displayName	name of the object.
id	object id unique to the server.
serverId	Entuity Server Id on which resource resides.
typeDisplayName	user-friendly name of the object type.
typeName	name of the object type.

Examples

```
INPUT
curl -u admin:admin https://localhost/api/views/49/objects?media=json

OUTPUT
{
    "items" : [ {
        "serverId" : "821c3e87-bcdf-4fef-a5e8-7d2524928d96",
        "id" : 769,
        "typeName" : "ManagedHost",
        "typeDisplayName" : "Managed Host",
        "displayName" : "localhost"
    } ],
    "count" : 1
}
```

• To return all devices:



curl -u admin:admin https://localhost/api/views/49/objects?
media=json&includedTypes=BasicDevice

• To return **only** services and VPN devices:

curl -u admin:admin https://localhost/api/views/49/objects?
media=json&included Types=Service, VPNDevice

• To return all devices except VPN devices:

curl -u admin:admin https://localhost/api/views/49/objects?media=json&i
ncludedTypes=BasicDevice&excludedTypes=VPNDevice

PUT Method detail

Request

Following query parameters can be specified

Name	Description
id	item id. This parameter can appear multiple times.

Response

Response is the same as from a GET method after objects have been added.

Examples

Add two items (2024 and 3279) to a View:

curl -u admin:admin https://localhost/api/views/49/objects?
media=json&id=2024&id=3279 -X PUT

DELETE Method detail

Request

The following query parameters can be specified:

Name	Description
id	object id. This parameter can appear multiple times.
include	Can have a special value "all" to empty a View completely. If specified any 'id' parameters are ignored.

Response

The updated list of View objects, as would be received from the GET method.



Examples

Remove two objects (2024 and 3279) from a View:

curl -u admin:admin https://localhost/api/views/49/objects?
media=json&id=2024&id=3279 -X DELETE

Remove all items from a View:

curl -u admin:admin https://localhost/api/views/49/objects?media=json&include=all X DELETE



Object Attributes

Lists attributes of an object.

URL: objects/{swID}/attributes?includeDetails=true&name=name1&name=name2

- Methods summary
- GET Method details
 - Request
 - Response
 - Examples

Methods summary

· GET Method - lists attributes of the object.

GET Method details

Lists the attributes of the object.

Request

The request may contain a list of attribute names to retrieve in the format "name=value". By default, all attributes are returned.

It is also possible to supply "includeDetails" flag. It is assumed to be true if this value is set to one of: "true", "yes", "t", "y" or "1". If it is set to any other value, it is false. If a value is absent, then it is automatically set to true if there is at least one "name=value" entry, otherwise it is false..

The "includeDetails" controls the level of details returned by this method. If false, only the attribute names will be returned. If true, attribute names together with their values will be returned.

Response

An array of entries, as described below.

If "includeDetails" is false, every entry has the following format:

Name	Description
Name	name of the attribute.

If "includeDetails" is true, every entry has the following format:

Name	Description	
------	-------------	--



name	value of "name" attribute of the device.
displayName	value of "displayName" attribute of the device
userEditable	if the attribute can be modified by the user.
userOverriden	if the attribute is set to polled or user-defined value.
values	list of values for the attribute.

```
INPUT
         curl -u admin:admin https://localhost/api/objects/611/attributes?
        media=json&includeDetails=y
OUTPUT
          "items" : [ {
            "name" : "devType",
            "displayName" : "Device Type",
            "userEditable" : false,
            "userOverriden" : false,
            "values" : [ "148" ]
          }, {
          ...removed for brevity...
          }, {
            "name" : "category",
            "displayName" : "category",
            "userEditable" : false,
            "userOverriden" : false,
            "values" : [ "device" ]
          } ],
          "count" : 30
        }
```

```
INPUT
    curl -u admin:admin https://localhost/api/objects/611/attributes?
    media=xml&includeDetails=y
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="30">
          <item xsi:type="attribute" userOverriden="false" userEditable="false"</pre>
        displayName="Device Type" xmlns:xsi="https://www.w3.org/2001/XMLSchema-
        instance">
             <name>devType</name>
            <value>148</value>
          </item>
           ...removed for brevity...
          <item xsi:type="attribute" userOverriden="false" userEditable="false"</pre>
        displayName="category" xmlns:xsi="https://www.w3.org/2001/XMLSchema-
        instance">
            <name>category</name>
             <value>device</value>
          </item>
         </items>
```



Object Attribute Details

List values of an object attribute, and modify an object attribute.

URL: objects/{swID}/attributes/{attributeName}

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples

Methods summary

- GET Method lists values of an attribute of the object.
- PUT Method modifies an attribute of the object.

GET Method details

Lists the values of an attribute on this object.

Response

The list of attributes, with entries according to the following format:

Name	Description
name	value of "name" attribute of the device.
displayName	value of "displayName" attribute of the device.
userEditable	if the attribute can be user-modified.
userOverriden	if the attribute is set to polled or a user-defined value.
values	list of values for the attribute.

INPUT	<pre>curl -u admin:admin https://localhost/api/objects/611/attributes /typeName?media=json</pre>



```
OUTPUT

    "name" : "typeName",
    "displayName" : "typeName",
    "userEditable" : false,
    "userOverriden" : false,
    "values" : [ "SwitchDevice" ]
}
```

PUT Method details

Modifies an attribute of the object.

Request

An attribute definition:

Name	Description
name	name of attribute to be changed.
userOverriden	if the attribute has user-supplied or polled value. The fields "userOverriden" and "values" are mutually exclusive, meaning that "values" are only permitted if the "userOverriden" is false.
values	list of values for the attribute.

Response

An updated attribute:

Name



name	value of "name" attribute of the device.	
displayName	value of "displayName" attribute of the device.	
userEditable	if the attribute can be modified by the user.	
userOverriden	userOverriden if you want to override the value, you must set "userOverriden" to "true"	
values	list of values for this attribute.	

```
INPUT
         curl -u admin:admin https://localhost/api/objects/611/attributes
         /TransferServer?media=json -X PUT -H "content-type:application/json" -d \
         ' {
           "name" : "TransferServer",
           "displayName" : "Configuration Transfer Server",
           "userOverriden" : true,
           "values" : [ "10.44.2.101" ]
         }'
OUTPUT | {
          "name" : "TransferServer",
          "displayName" : "Configuration Transfer Server",
          "userEditable" : true,
          "userOverriden" : true,
          "values" : [ "10.44.2.101" ]
        }
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<objectAttribute userOverriden="true" userEditable="true" displayName="
Configuration Transfer Server">

<name>TransferServer</name>

<value>10.44.2.101

</objectAttribute>





Object Ports

Lists the ports on an object.

URL: objects/{swID}/ports?includeVirtual=BOOL&includeUnmanaged=BOOL

- Methods summary
- GET Method details
 - Response
 - Examples

Methods summary

• GET Method - lists ports on the object.

GET Method details

This method accepts one of two boolean parameters:

- one that equals "yes", "true", "y", "t" or "1". This is treated as 'true'.
- one that equals any other value, or the absence of a value. This is treated as 'false'.

includeVirtual - controls whether virtual ports should be included in results.

includeUnmanaged – controls whether data for unmanaged ports should be included.

Response

The list of attributes, with entries according to the following format:

Name	Description
objectId	StormWorks ID of the associated object.
typeName	type of the associated object.
displayName	display name.
displayType	display type.
hasServiceStatus	if object has a service status.

INPUT	<pre>curl -u admin:admin https://localhost/api/objects/655/ports? includeVirtual=yes&includeUnmanaged=yes&media=json</pre>



```
OUTPUT | {
           "items": [ {
               "portAttributes": {
                 "compId": {
                   "ids": [ 1, 2, 1, 0 ],
                   "type": 1,
                   "invalid": false,
                   "port": true,
                   "networkPath": false,
                   "device": false,
                   "root": false,
                   "dsObject": false,
                   "view": false
                 },
                 "connectedHostIps": "",
                 "connectedHostMacs": "",
                 "connectedHostNames": "",
                 "connectedHosts": "",
                 "displayName": " [ Gi0/0 ] to 10.44 lan",
                 "ifDescr": " [ Gi0/0 ] to 10.44 lan",
                 "ifIndex": "1",
                 "ifType": "Ethernet",
                 "ipAddresses": "10.44.1.59",
                 "objectId": 691,
                 "portAdminStatus": "up",
                 "portAlias": "to 10.44 lan",
                 "portDescr": "GigabitEthernet0/0",
                 "portDuplex": "Full Duplex",
                 "portInSpeed": 100000000,
                 "portMac": "00:07:0e:34:f4:00",
                 "portOperationalStatus": "up",
                 "portOutSpeed": 100000000,
                 "portShortDescr": "[ Gi0/0 ]",
                 "portSpare": "No",
                 "portVipStatus": "Router",
                 "portVirtualIndicator": "Physical",
```

"statusEventsEnabled": 1,



```
"statusFasterPolling": 0,
      "timeOfLastChange": 1458210600,
      "topoNodeState": 0,
      "typeDisplayName": "Router Device",
      "typeName": "portEx",
      "utilFasterPolling": 0,
      "vlans": ""
  }, {
...removed for brevity...
 }, {
    "portAttributes": {
      "compId": {
        "ids": [
          1,
          2,
          12,
          0
        ],
        "type": 1,
        "invalid": false,
        "port": true,
        "networkPath": false,
        "device": false,
        "root": false,
        "dsObject": false,
        "view": false
      },
      "connectedHostIps": "",
      "connectedHostMacs": "",
      "connectedHostNames": "",
      "connectedHosts": "",
      "displayName": " [ Se0/1/0 ] Serial0/1/0-mpls layer",
    ...removed for brevity...
      "typeDisplayName": "Router Device",
      "typeName": "portEx",
```



```
INPUT
         curl -u admin:admin https://localhost/api/objects/655/ports?
         includeVirtual=yes&includeUnmanaged=yes&media=xml
OUTPUT
        <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="8">
          <item xsi:type="devicePortInfo" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <portAttributes>
              <compId>
                <ids>
                  <ids>1</ids>
                  <ids>2</ids>
                  <ids>1</ids>
                  <ids>0</ids>
                </ids>
              </compld>
              <connectedHostIps></connectedHostIps>
              <connectedHostMacs></connectedHostMacs>
              <connectedHostNames></connectedHostNames>
              <connectedHosts></connectedHosts>
              <displayName> [ Gi0/0 ] to 10.44 lan</displayName>
              <ifDescr> [ Gi0/0 ] to 10.44 lan</ifDescr>
              <ifIndex>1</ifIndex>
              <ifType>Ethernet</ifType>
              <ipAddresses>10.44.1.59</ipAddresses>
              <objectId>691</objectId>
              <portAdminStatus>up</portAdminStatus>
              <portAlias>to 10.44 lan
              <portDescr>GigabitEthernet0/0</portDescr>
```



```
<portDuplex>Full Duplex/portDuplex>
      <portInSpeed>100000000</portInSpeed>
      <portMac>00:07:0e:34:f4:00</portMac>
      <portOperationalStatus>up</portOperationalStatus>
      <portOutSpeed>100000000</portOutSpeed>
      <portShortDescr>[ Gi0/0 ]</portShortDescr>
      <portSpare>No</portSpare>
      <portVipStatus>Router</portVipStatus>
      <portVirtualIndicator>Physical</portVirtualIndicator>
      <statusEventsEnabled>1</statusEventsEnabled>
      <statusFasterPolling>0</statusFasterPolling>
      <timeOfLastChange>1458210600</timeOfLastChange>
      <topoNodeState>0</topoNodeState>
      <typeDisplayName>Router Device</typeDisplayName>
      <typeName>portEx</typeName>
      <utilFasterPolling>0</utilFasterPolling>
      <vlans></vlans>
    </portAttributes>
 </item>
...removed for brevity...
 <item xsi:type="devicePortInfo" xmlns:xsi="https://www.w3.org/2001</pre>
/XMLSchema-instance">
    <portAttributes>
      <compId>
        <ids>
          <ids>1</ids>
          <ids>2</ids>
          <ids>12</ids>
          <ids>0</ids>
        </ids>
      </compld>
      <connectedHostIps></connectedHostIps>
      <connectedHostMacs></connectedHostMacs>
      <connectedHostNames></connectedHostNames>
      <connectedHosts></connectedHosts>
      <displayName> [ Se0/1/0 ] Serial0/1/0-mpls layer</displayName>
    ...removed for brevity...
```





Object Associations

Lists an object's associations.

URL: objects/{swID}/associations?showEmpty=BOOL

- Methods summary
- GET Method details
 - Response
 - Examples

Methods summary

• Lists associations of the object.

GET Method details

Lists associations of the object.

This method accepts a "showEmpty" parameter, which controls whether empty associations should be listed. This method accepts one of two boolean parameters:

- one that equals "yes", "true", "y", "t" or "1". This is treated as 'true'.
- one that equals any other value, or the absence of a value. This is treated as 'false'.

Response

The list of associations.

Name	Description
Name	Association name

INPUT	<pre>curl -u admin:admin https://localhost/api/objects/655/associations? showEmpty=yes&media=json</pre>



```
OUTPUT {
           "items": [
             "AdaptorUnits",
             "Annotation",
             "ChassisList",
             "ComputeBlades",
             "DeviceMIBPolls",
             "FabricExtenders",
             "FanModules",
             "Fans",
             "HostEthernets",
             "IPSLABaseCreators",
             "IPSLABasePollers",
             "IpAddresses",
             "LocalDisks",
           ...removed for brevity...
             "uDComponents19",
             "uDComponents20"
           ],
           "count": 60
        }
```

INPUT



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="60">
          <item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre>
        xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">AdaptorUnits</item>
          <item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre>
        xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Annotation</item>
          <item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre>
        xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">ChassisList</item>
           <item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre>
        xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">ComputeBlades<
        /item>
```

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">DeviceMIBPolls<

xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">FabricExtenders< /item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">FanModules</item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">Fans</item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">HostEthernets< /item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">IPSLABaseCreators< /item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">IPSLABasePollers< /item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">IpAddresses</item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">LocalDisks</item>

...removed for brevity...

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">uDComponents19< /item>

<item xsi:type="xs:string" xmlns:xs="https://www.w3.org/2001/XMLSchema"</pre> xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance">uDComponents20< /item>

</items>



Association Details

Display details of an association.

URL: objects/{swID}/ associations /{associationName}

- Methods summary
- GET Method details
 - Response
 - Examples

Methods summary

• GET Method - displays details of an association.

GET Method details

Displays details of an association. Association names are not case sensitive.

Response

The list of items, with entries according to the following format:

Name	Description
objectId	StormWorks ID of the associated object.
typeName	type of the associated object.
displayName	display name.
displayType	display type.
hasServiceStatus	if object has service status.

INPUT	<pre>curl -u admin:admin https://localhost/api/objects/655/associations/fans? media=json</pre>



```
OUTPUT | {
          "items": [
               "objectId": 656,
              "typeName": "Fan",
              "displayName": "Fan 1",
              "displayType": "",
              "hasServiceStatus": true
            }, {
              "objectId": 657,
              "typeName": "Fan",
              "displayName": "Fan 2",
              "displayType": "",
              "hasServiceStatus": true
            }, {
              "objectId": 658,
              "typeName": "Fan",
              "displayName": "Fan 3",
              "displayType": "",
              "hasServiceStatus": true
            }
          ],
          "count": 3
        }
```

INPUT

curl -u admin:admin https://localhost/api/objects/655/associations/fans?
media=xml



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?> <items count="3">

> <item xsi:type="associationInfo" hasServiceStatus="true" displayType=""</pre> displayName="Fan 1" typeName="Fan" objectId="656" xmlns:xsi="https://www. w3.org/2001/XMLSchema-instance"/>

> <item xsi:type="associationInfo" hasServiceStatus="true" displayType=""</pre> displayName="Fan 2" typeName="Fan" objectId="657" xmlns:xsi="https://www. w3.org/2001/XMLSchema-instance"/>

> <item xsi:type="associationInfo" hasServiceStatus="true" displayType=""</pre> displayName="Fan 3" typeName="Fan" objectId="658" xmlns:xsi="https://www. w3.org/2001/XMLSchema-instance"/>

</items>



Configuration Management

List the configuration management settings of an object, and modify those settings.

URL: objects/{swID}/configManagement

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples

Methods summary

- GET Method lists configuration management settings of the object.
- PUT Method modifies configuration management attributes of the object.

GET Method details

Lists configuration management settings of the object.

Response

The list of configuration management settings of the object:

- NumberOfConfigsToArchive
- configMonitorRetrievalScript
- configMonitorPolicyRules
- ConfigRetrievalEnabled
- configMonitorTransferMethod
- SNMPChangeDetectionEnabled
- configMonitorExcludedDifference
- cliMethod
- cliUsername.

Every entry will follow the description below:

Name	Description	
name value of "name" attribute of the device		
displayName value of "displayName" attribute of the device.		
userEditable	if the attribute can be modified by the user.	



userOverriden	if the attribute is set to polled or a user-defined value.
values	list of values for this attribute.

```
INPUT
         curl -u admin:admin https://localhost/api/objects/605/ports?
         includeVirtual=y&includeUnmanaged=y&media=json
OUTPUT
           "items" : [ {
             "portAttributes" : {
               "compId" : {
                 "ids" : [ 1, 2, 1, 0 ],
                 "type" : 1,
                 "invalid" : false,
                 "root" : false,
                 "networkPath" : false,
                 "device" : false,
                 "port" : true,
                 "view" : false,
                 "dsObject" : false
               },
               "connectedHostIps" : "",
               "connectedHostMacs" : "",
               "connectedHostNames" : "",
               "connectedHosts" : "",
               "displayName" : " [ Vl1 ] Vlan1",
               "ifDescr" : " [ Vl1 ] Vlan1",
               "ifIndex" : "1",
               "ifType" : "Prop. Virtual/Internal",
               "ipAddresses" : "10.44.1.41",
               "objectId" : 723,
               "portAdminStatus" : "up",
               "portAlias" : "",
               "portDescr" : "Vlan1",
               "portDuplex" : "Unknown",
               "portInSpeed" : 0,
               "portMac" : "00:19:06:d2:1e:c0",
```



```
"portOperationalStatus" : "up",
    "portOutSpeed" : 0,
    "portShortDescr" : "[ Vl1 ]",
    "portSpare" : "No",
    "portVipStatus" : " ",
    "portVirtualIndicator" : "Virtual",
    "statusEventsEnabled" : 0,
    "statusFasterPolling" : 0,
    "timeOfLastChange" : null,
    "topoNodeState" : 292,
    "typeDisplayName" : "Switch Device",
    "typeName" : "portEx",
    "utilFasterPolling" : 0,
    "vlans" : ""
 }
}, {
...removed for brevity...
}, {
  "portAttributes" : {
    "compId" : {
      "ids" : [ 1, 2, 6, 0 ],
      "type" : 1,
      "invalid" : false,
      "root" : false,
      "networkPath" : false,
      "device" : false,
      "port" : true,
      "view" : false,
      "dsObject" : false
    },
    "connectedHostIps" : "",
    "connectedHostMacs" : "",
    "connectedHostNames" : "",
    "connectedHosts" : "",
    "displayName" : " [ Fa0/4 ] FastEthernet0/4",
    "ifDescr" : " [ Fa0/4 ] FastEthernet0/4",
```



```
...removed for brevity...
    }
  ...removed for brevity...
  }, {
    "portAttributes" : {
      "compId" : {
        "ids" : [ 1, 2, 18, 0 ],
        "type" : 1,
        "invalid" : false,
        "root" : false,
        "networkPath" : false,
        "device" : false,
        "port" : true,
        "view" : false,
        "dsObject" : false
      },
      "displayName" : " [ Fa0/16 ] FastEthernet0/16",
      "objectId" : 18,
      "typeName" : "UnmanagedPort"
    }
  } ],
  "count" : 29
}
```

PUT Method details

Modifies a single configuration management attribute of the device.

Request

An attribute definition:

Name

Description



Name	name of attribute that is to be modified. The only valid values are: NumberOfConfigsToArchive configMonitorRetrievalScript configMonitorPolicyRules ConfigRetrievalEnabled configMonitorTransferMethod SNMPChangeDetectionEnabled configMonitorExcludedDifference cliMethod cliUsername.
values	list of values for this attribute

Response

An updated attribute:

"OK" if the method succeeded, an error description otherwise.

```
INPUT
    curl -u admin:admin https://localhost/api/objects/611/configManagement?
    media=json -X PUT -H "content-type:application/json" -d \
    '{
        "name" : "cliMethod",
        "values" : [ "ssh" ]
    }'

OUTPUT {
        "message" : "OK"
}
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<statusInfo>

<message>OK</message>

</statusInfo



Port Management

Set the managed/unmanaged state of a port.

URL: portManagement/{devID}/{portID}?reManage=BOOL&unManage=BOOL

- Methods summary
- PUT Method details
 - Response
 - Examples

Methods summary

• PUT Method - controls the managed/unmanaged state of the port.

PUT Method details

This method can accept two boolean parameters, which can be equal to either of "yes", "true", "y", "t" or "1".

If both parameters are present, "reManage" takes over the "unManage".

If none are present, then this method reports an error.

Response

A message, describing the current state of a port.

INPUT	curl -u admin:admin https://localhost/api/portManagement/2/18? unManage=y&media=json -X PUT -H "content-type:application/json"	
OUTPUT	{	
	<pre>"message" : "Successfully marking port as unmanaged" }</pre>	

```
INPUT curl -u admin:admin https://localhost/api/portManagement/2/18?
unManage=y&media=xml -X PUT -H "content-type:application/xml"
```



OUTPUT </p

<statusInfo>

<message>Successfully marking port as unmanaged</message>

</statusInfo



Zones

Lists configured zones and creates new zones.

URL: zones

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists configured zones.
- POST Method creates a new zone.

GET Method detail

Lists configured zones.

Response

Response includes a list of zones. Each zone has following attributes.

Name	Description	
id	zone ID, unique to the server.	
name	zone name.	
serverId Entuity Server ID on which resource resi		

INPUT	curl -u admin:admin https://localhost/api/zones?media=json



```
OUTPUT {
    "items": [
        {
             "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
             "id": "0",
             "name": "None"
        }
        l,
        "count": 1
    }
```

POST Method details

Creates a new zone.

Request

Name	Description	
id	zone ID.	
name	name of the zone.	
flags	zone flags, should be set to 0.	
description	description of the zone.	
v4interface	IPv4 interface for the zone.	
v6interface	IPv6 interface for the zone.	
domainSuf fix	domain suffix for the zone.	



proxy	(this is unused.)	
devicePrefix	specified device prefix that is included with each device name found under this zone, maximum of 5 characters.	
hostFile host file.		
dnsServer	list of DNS servers.	

Response

The list of zones after an update, as GET method would return them.

```
INPUT
curl -u admin:admin https://localhost/api/zones?media=json -X POST -H
"content-type:application/json" -d \

"{
    "name" : "A",
    "flags" : 0,
    "description" : "",
    "v4Interface" : "10.44.2.103",
    "v6Interface" : "",
    "domainSuffix" : "",
    "proxy" : "",
    "devicePrefix" : "",
    "hostFile" : "",
    "dnsServers" : [ "a.b.c.d" ]
}'
```



```
OUTPUT {
    "items": [
        {
             "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
            "id": "1",
            "name": "A"
        }, {
             "serverId": "ee934fe2-1f4d-4f1e-a0b5-a87b261eb30a",
            "id": "0",
            "name": "None"
        }
        l,
        "count": 2
    }
```

```
INPUT
        curl -u admin:admin https://localhost/api/zones?media=xml -X POST -H
        "content-type:application/xml" -d \
        '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <zoneParametersInfo>
          <name>A</name>
          <flags>0</flags>
          <description></description>
          <v4Interface>10.44.2.103</v4Interface>
          <v6Interface></v6Interface>
          <domainSuffix></domainSuffix>
          <devicePrefix></devicePrefix>
          <hostFile></hostFile>
          <dnsServers>
            <server>a.b.c.d
          </dnsServers>
        </zoneParametersInfo>'
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="2">
          <item xsi:type="namedItem" name="A" id="1" serverId="ee934fe2-1f4d-4f1e-</pre>
        a0b5-a87b261eb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchema-instance"
          <item xsi:type="namedItem" name="None" id="0" serverId="ee934fe2-1f4d-</pre>
        4fle-a0b5-a87b26leb30a" xmlns:xsi="https://www.w3.org/2001/XMLSchema-
        instance"/>
        </items>
```



Zone Details

This resource implements operations acting on a single zone.

URL: zones/{zoneID}

- Methods summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- DELETE Method details
 - Response
 - Examples

Methods summary

- GET Method details information about the zone.
- PUT Method modifies parameters of the zone.
- DELETE Method deletes the zone.

GET Method details

Returns a detailed information about the zone.

Response

User info structure with the following format:

Name	Description
id	zone ID.
name	name of the zone.
flags	zone flags.
description	description of the zone.
v4interface	IPv4 interface for the zone.
v6interface	IPv6 interface for the zone.
domainSuffix	Domain suffix for the zone.



proxy	// TODO.
devicePrefix	// TODO.
hostFile	host file.
dnsServer	list of DNS servers.

```
INPUT
         curl -u admin:admin https://localhost/api/zones/1?media=json
OUTPUT
          "id": 1,
          "name": "A",
          "flags": 0,
          "description": "",
          "v4Interface": "10.44.2.103",
          "v6Interface": "",
          "domainSuffix": "",
          "proxy": "",
          "devicePrefix": "",
          "hostFile": "",
          "dnsServers": [
            "a.b.c.d"
          ]
        }
```

```
INPUT curl -u admin:admin https://localhost/api/zones/1?media=xml
```



PUT Method details

Modifies parameters of the zone.

Request

Name	Description
id	zone ID.
name	name of the zone
flags	zone flags.
description	description of the zone.
v4interface	IPv4 interface for this zone.
v6interface	IPv6 interface for this zone.
domainSuffix	domain suffix for this zone.
proxy	// TODO
devicePrefix	// TODO
hostFile	host file.
dnsServer	list of DNS servers.



Response

Detailed information about the zone after changes, as GET method would return it.

```
INPUT
         curl -u admin:admin https://localhost/api/zones/ 1?media=json -X PUT -H
         "content-type:application/json" -d \
           "name": "B",
           "v6Interface": "fe80:0:0:0:0:5efe:a2c:266",
           "dnsServers": [
             "t.x.y.z"
           ]
         }'
OUTPUT
        {
           "id": 1,
           "name": "B",
           "flags": 0,
           "description": "",
           "v4Interface": "10.44.2.103",
           "v6Interface": "fe80:0:0:0:0:5efe:a2c:266",
           "domainSuffix": "",
           "proxy": "",
           "devicePrefix": "",
           "hostFile": "",
           "dnsServers": [
             "t.x.y.z"
           ]
         }
```



```
INPUT
        curl -u admin:admin https://localhost/api/zones/1?media=xml-X PUT -H
        "content-type:application/xml" -d \
         '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <zoneParametersInfo id="1">
            <name>Zone B</name>
            <v6Interface>fe80:0:0:0:0:5efe:a2c:266</v6Interface>
            <dnsServers>
                <server>t.x.y.z
            </dnsServers>
        </zoneParametersInfo>'
OUTPUT
       <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <zoneParametersInfo id="1">
          <name>B</name>
          <flags>0</flags>
          <description></description>
          <v4Interface>10.44.2.103</v4Interface>
          <v6Interface></v6Interface>
          <domainSuffix></domainSuffix>
          oxy>
          <devicePrefix></devicePrefix>
          <hostFile></hostFile>
          <dnsServers>
            <server>t.x.y.z
          </dnsServers>
        </zoneParametersInfo>
```

DELETE Method details

Deletes a zone.

Response

The current list of zones, as the GET method would return it.

Examples

INPUT curl -u admin:admin https://localhost/api/zones/1?media=json -X DELETE



```
OUTPUT {
    "message" : "Zone deleted successfully"
    }
```

INPUT	curl -u admin:admin https://localhost/api/zones/1?media=xml -X DELETE
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?></pre>
	<statusinfo></statusinfo>
	<pre><message>Zone deleted successfully</message></pre>



IP SLA Management

View information about, modify and delete an IP SLA.

URL: ipsla/{id}

- Methods Summary
- Request and Response
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- DELETE Method details
 - Response
 - Examples

Methods Summary

- GET Method displays information about the IP SLA.
- PUT Method modifies a particular IP SLA creator.
- DELETE Method deletes a particular IP SLA creator.

Request and Response

The following attributes must be present for every IP SLA type:

Name	Description
id	IP SLA object ID
name	name
index	association index, used to match IP SLA creators and pollers
tag	zone flags
lifetime	creator's lifetime
frequency	frequency of polling
timeout	polling timeout
vrfName	VRF (Virtual Routing and Forwarding) instance name
failureCause	cause of failure



changesPending	changes pending
type	creator type, one of the following: DHCP DNS ECHO ECHO_PATH HTTP HTTP_RAW JITTER VOIP TCP UDP

In addition, each type provides a specific set of attributes, as show:

IP SLA type	Required attributes
DHCP	targetAddress
	sourceAddress
	sourcePort
DNS	targetAddress
	nameserver
ECHO and ECHO_PATH	targetAddress
	sourceAddress
	sourcePort
	typeOfService
	packetSize
НТТР	targetURL
	proxyAddress
	sourceAddress
	sourcePort
	typeOfService
	httpVersion
	useCache



LITTO DAVA	torget IDI
HTTP_RAW	targetURL
	proxyAddress
	sourceAddress
	sourcePort
	typeOfService
	httpVersion
	useCache, adminStr1
	adminStr2
	adminStr3
	adminStr4
	adminStr5
JITTER	targetAddress
	targetPort
	sourceAddress
	sourcePort
	typeOfService
	interval
	numberOfPackets
	packetSize
VOIP	targetAddress
	targetPort
	sourceAddress
	sourcePort
	typeOfService
	codecType
	codecInterval, codecPayload
	codecNumOfPkts
	icpifFactor
	· .



TCP	targetAddress
	targetPort
	sourceAddress
	sourcePort
	typeOfService
	ctrlPkts
UDP	targetAddress
	targetPort
	sourceAddress
	sourcePort
	typeOfService
	ctrlPkts
	packetSize

GET Method details

Returns detailed information about a particular IP SLA creator.

Response

Refer to Request and Response s section above.

Examples

INPUT curl -u admin:admin https://localhost/api/ipsla/772?media=json



```
OUTPUT {
    "attributes" :
    {
        "frequency" : "300",
        "id" : "772",
        "index" : "2",
        "lifetime" : "forever",
        "name" : "B",
        "nameserver" : "127.0.0.1",
        "tag" : "a",
        "targetAddress" : "127.0.0.1",
        "timeout" : "1000",
        "type" : "DNS",
        "vrfName" : "a"
      }
}
```

```
INPUT
        curl -u admin:admin https://localhost/api/ipsla/772?media=xml
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <ipslaDetails>
          <attributes>
            <id>772</id>
            <type>DNS</type>
            <index>2</index>
            <name>B</name>
            <tag>a</tag>
            <lifetime>forever</lifetime>
            <frequency>300</frequency>
            <timeout>1000</timeout>
            <vrfName>a</vrfName>
            <targetAddress>127.0.0.1</targetAddress>
            <nameserver>127.0.0.1
          </attributes>
        </ipslaDetails>
```



PUT Method details

Modifies parameters of an IP SLA creator.

NOTE: Parameters "id", "index" and "type" are not supposed to be modified and are therefore ignored.

Request

A set of attributes that define an IP SLA creator, according to the details described in Request and Response s section above.

Response

Actual IP SLA creator parameters, as described in Request and Response s section above.



```
OUTPUT | {
           "attributes" : {
             "frequency" : "2000",
             "id" : "1481",
             "index" : "3",
             "lifetime" : "0",
             "name" : "Y",
             "sourceAddress" : "null",
             "sourcePort" : "2666",
             "tag" : "x",
             "targetAddress" : "127.0.0.2",
             "timeout" : "1000",
             "type" : "DHCP",
             "vrfName" : "x"
          }
        }
```



```
OUTPUT
        <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <ipslaDetails>
          <attributes>
            <id>1481</id>
            <type>DHCP</type>
            <index>3</index>
            <name>Y</name>
            <tag>x</tag>
            <lifetime>0</lifetime>
            <frequency>2000</frequency>
            <timeout>1000</timeout>
            <vrfName>x</vrfName>
            <targetAddress>127.0.0.2</targetAddress>
            <sourceAddress>null</sourceAddress>
            <sourcePort>2666</sourcePort>
          </attributes>
        </ipslaDetails>
```

DELETE Method details

The list of users returned is restricted for non-administrators: only the user object corresponding to the current user is returned.

Response

"OK" message if the IP SLA was properly deleted, an error message otherwise.

```
INPUT     curl -u admin:admin https://localhost/api/ipsla/772?media=json -X DELETE

OUTPUT     {
          "message" : "OK"
          }
```

```
INPUT curl -u admin:admin https://localhost/api/ipsla/772?media=xml -X DELETE
```



OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<statusInfo>

<message>OK</message>

</statusInfo



IP SLA Creators

Resource for managing IP SLA creators configured for a given device.

URL: objects/{swld}/ipslaCreators

- Methods Summary
- GET Method details
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method details information about IP SLA creators that are defined for the device.
- POST Method creates an IP SLA creator.

GET Method details

Returns detailed information about IP SLA creators defined for the device.

Response

A list of IP SLA creators, with every entry conforming to the Request and Response description section of the IP SLA Management page.

Examples

INPUT

curl -u admin:admin https://localhost/api/objects/600/ipslaCreators?
media=json



```
OUTPUT {
          "items" :
          [
             {
              "attributes" :
                "failureCause" : "",
                "frequency" : "300",
                "id" : "772",
                "index" : "2",
                "lifetime" : "forever",
                "name" : "B",
                "nameserver" : "127.0.0.1",
                "tag" : "a",
                "targetAddress" : "127.0.0.1",
                "timeout" : "1000",
                "type" : "DNS",
                "vrfName" : "a"
            },
          ],
          "count" : 1
        }
```

INPUT

curl -u admin:admin https://localhost/api/objects/600/ipslaCreators?
media=xml



```
OUTPUT
        <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="1">
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <attributes>
              <id>772</id>
              <type>DNS</type>
              <index>2</index>
              <name>B</name>
              <tag>a</tag>
              <lifetime>forever</lifetime>
              <frequency>300</frequency>
              <timeout>1000</timeout>
              <vrfName>a</vrfName>
              <failureCause />
              <targetAddress>127.0.0.1</targetAddress>
              <nameserver>127.0.0.1
            </attributes>
          </item>
        </items>
```

POST Method details

Creates an IP SLA creator for a particular device.

Request

A set of attributes that define an IP SLA creator, according to the details described in the Request and Response description section of the IP SLA Management page.

Response

An updated list of IP SLA creators, with every entry conforming to the Request and Response description section of the IP SLA Management page.



```
INPUT

curl -u admin:adminhttps://localhost/api/objects/600/ipslaCreators?
media=json -X POST -H "content-type:application/json" -d \

    "{
        "frequency" : 500,
        "index" : 0,
        "lifetime" : 0,
        "name" : "X",
        "sourcePort" : "2555",
        "tag" : "x",
        "targetAddress" : "127.0.0.1",
        "timeout" : 1000,
        "type" : "DHCP",
        "vrfName" : "x"
        }'
```



```
OUTPUT {
          "items" : [
               "attributes" : {
                "frequency" : "300",
                 "id" : "772",
                "index" : "2",
                "lifetime" : "forever",
                "name" : "B",
                "nameserver" : "127.0.0.1",
                "tag" : "a",
                "targetAddress" : "127.0.0.1",
                "timeout" : "1000",
                 "type" : "DNS",
                "vrfName" : "a"
              }
            }, {
               "attributes" : {
                 "frequency" : "500",
                "id" : "1481",
                "index" : "0",
                 "lifetime" : "0",
                "name" : "X",
                "sourceAddress" : "null",
                "sourcePort" : "2555",
                "tag" : "x",
                 "targetAddress" : "127.0.0.1",
                "timeout" : "1000",
                "type" : "DHCP",
                "vrfName" : "x"
              }
            }
            ],
          "count" : 2
        }
```



```
INPUT
        curl -u admin:admin https://localhost/api/objects/600/ipslaCreators?
        media=xml -X POST -H "content-type:application/xml" -d \
        '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <ipslaCreator>
          <type>DHCP</type>
          <index>0</index>
          <name>X</name>
          <tag>x</tag>
          fetime>0</lifetime>
          <frequency>500</frequency>
          <timeout>1000</timeout>
          <vrfName>x</vrfName>
          <targetAddress>127.0.0.1</targetAddress>
          <sourcePort>2555</sourcePort>
        </ipslaCreator>'
```



```
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="2">
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <attributes>
              <id>772</id>
              <type>DNS</type>
              <index>2</index>
              <name>B</name>
              <tag>a</tag>
              <lifetime>forever</lifetime>
              <frequency>300</frequency>
              <timeout>1000</timeout>
              <vrfName>a</vrfName>
              <targetAddress>127.0.0.1</targetAddress>
              <nameserver>127.0.0.1
            </attributes>
          </item>
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <attributes>
              <id>1481</id>
              <type>DHCP</type>
              <index>3</index>
              <name>X</name>
              <tag>x</tag>
              fetime>0</lifetime>
              <frequency>500</frequency>
              <timeout>1000</timeout>
              <vrfName>x</vrfName>
              <targetAddress>127.0.0.1</targetAddress>
              <sourceAddress>null</sourceAddress>
              <sourcePort>2555</sourcePort>
            </attributes>
          </item>
        </items>
```



IP SLA Pollers

Displays information about IP SLA pollers present on a given device.

URL: objects/{swld}/ipslaPollers

- Methods Summary
- GET Method details
 - Response
 - Examples

Methods Summary

• GET Method - displays detailed information about the IP SLA pollers defined for the device.

GET Method details

Returns the detailed information about the IP SLA pollers defined for the device.

Response

A list of entries, each containing a complete attribute set of a particular IP SLA poller.

Examples

INPUT

curl -u admin:admin https://localhost/api/objects/600/ipslaPollers?
media=json



```
OUTPUT | {
          "items" : [
               "attributes" : {
                "IPSLAPollerIndex" : "111",
                 "IPSLAPollerName" : "icmp-echo (111 on e2821)",
                 "descriptiveAlias" : "",
                 "id" : "605",
                "link" : null,
                "rttMonAdminCodecInterval" : "",
                 "rttMonAdminCodecNumPackets" : "",
                 "rttMonAdminCodecPayload" : "",
             ...removed for brevity...
                 "rttMonScheduleAdminRttLife" : "forever",
                 "rttMonStatisticsAdminNumHops" : "",
                 "rttMonStatisticsAdminNumPaths" : "",
                "type" : "IPSLABasePoller"
          ...removed for brevity...
            }, {
              "attributes" : {
            ...removed for brevity...
              }
            }
          ],
          "count" : 4
        }
```

```
INPUT
```

curl -u admin:admin https://localhost/api/objects/600/ipslaPollers?
media=xml



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <items count="4">
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <attributes>
               <rttMonEchoAdminTOS>160</rttMonEchoAdminTOS>
               <rttMonEchoAdminTargetAddress>10.2.90.90
        /rttMonEchoAdminTargetAddress>
              <link xsi:nil="true"/>
              <rttMonEchoAdminString4></rttMonEchoAdminString4>
              <rttMonEchoAdminString3></rttMonEchoAdminString3>
              <rttMonEchoAdminString2></rttMonEchoAdminString2>
              <rttMonEchoAdminVrfName></rttMonEchoAdminVrfName>
              <rttMonAdminCodecNumPackets></rttMonAdminCodecNumPackets>
              <rttMonEchoAdminString1></rttMonEchoAdminString1>
               <type>IPSLABasePoller</type>
           ...removed for brevity...
              <rttMonEchoAdminHTTPVersion></rttMonEchoAdminHTTPVersion>
              <rttMonScheduleAdminRttLife>forever</rttMonScheduleAdminRttLife>
               <rttMonEchoAdminProxy></rttMonEchoAdminProxy>
              <rttMonCtrlAdminOwner>richard/rttMonCtrlAdminOwner>
               <rttMonAdminICPIFAdvFactor></rttMonAdminICPIFAdvFactor>
            </attributes>
          </item>
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
          ...removed for brevity...
          </item>
          <item xsi:type="ipslaAttributesMap" xmlns:xsi="https://www.w3.org/2001</pre>
        /XMLSchema-instance">
            <attributes>
          ...removed for brevity...
             </attributes>
          </item>
        </items>
```



Data Access Interface

- General description
- The format of the export template
 - Example template
 - Export template syntax

General description

Data Access is inteded as a powerful, highly configurable interface for accessing ENA's internal data (like attribute values, stream data etc.)

The interface achieves this by processing the XML "templates" that describe sets of data to be exported. As these templates may be user-defined, this gives the customers an unprecedented level of control over the data itself, as well as their layout and format.

Currently, due to an extended set of possibilities in comparison to JSON, only XML template format is supported.

The interface consists of two parts (each described in detail later on): the "template management" which can be used to retrieve and modify templates residing on a server, and the "data access" part, which produces the output based on the early defined template.

The format of the export template

Example template

The following example defines a template that would traverse the list of views (supplied by the user as a part of data output) and, based on the value of "selector" element, would traverse every device. For each device found, the element **DEVICE_OBJECT** will be created and populated with these element (in the order corresponding to their order in the template):

- 1. The element **name**, with a value of the **name** attribute of a device.
- 2. The attribute id, with a value of executing the simple; id statement on the current device.
- 3. The stream data v_unifiedDeviceCPU appearing as a CPU element, with all the underlying attributes.
- 4. The list of **PORT_OBJECT** elements, corresponding to the result of executing the **simple;ref.ports** statem ent on the current device. Each of these element would consist of:
 - a. The attribute **descr**, with the value of **simple;this.ifDescr** statement for the current port.
 - b. The element **status**, consisting of a list of samples, each containing two attributes: **adminStatus** (pr esented as an **adm** element) and **operStatus**, presented as an **oper** attribute.

An example XML Data Access Template



```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<dataAccessTemplate name="Example template">
  <description>This is a test description</description>
  <object type="DeviceEx" tag="DEVICE OBJECT">
    <selector>simple;ref.devices</selector>
    <filter></filter>
    <attribute asElement="true" expression="name"/>
    <attribute expression="simple;id" tag="id"/>
    <stream allAttributes="true" name="v_unifiedDeviceCPU" tag="CPU"/>
    <object type="PortEx" tag="PORT_OBJECT">
      <selector>simple;ref.ports</selector>
      <filter></filter>
      <attribute asElement="true" expression="simple;this.ifDescr" tag="Descr"/>
      <stream name="portStatus" tag="status">
       <attribute asElement="true" expression="adminStatus" tag="adm"/>
       <attribute expression="operStatus" tag="oper"/>
      </stream>
    </object>
  </object>
</dataAccessTemplate>
```

Export template syntax

The following table describes all the XML nodes that can be a part of a Data Access Template. Unless stated otherwise, the order of elements is not important.

In the description below, some nodes have one of three symbols: ? (question mark), + (plus sign) or * (an asterisk) appended (in parenthesis) to their names.

These symbols <u>are not</u> part of the name itself, but serve to define how many times a node of this type may appear under the same parent:

- ? the node is optional and unique (i.e. may appear one or zero times)
- * the node is optional and not unique (i.e. may appear any number of times)
- + the node is mandatory and not unique (i.e. must appear one or more times)

Nodes without any such symbol are implied to be mandatory and unique.

Node Name Description	
-----------------------	--



·	node of every single Data Access Template.
T. II. (II	9.0 = a.a
The list of attributes: name, type(?)
The list of child elements: descrip	tion(?), object
	me of the template. One server can only store naming of a template is not supported.
description XML element node that serves as a only have one text node, with its book and the control of the con	a placeholder for user-defined comment. It can ody being the comment string.
object XML element node that defines a g	roup of objects.
asText(?), allowMultibyte	allAttributes(?), asElement(?), asAttribute(?), and asText are mutually exclusive.
Children of type object, stream an	d attribute can be interleaved. During the expanded in order of their definition and then ir types.
attribute XML element node that defines a S	StormWorks attribute to be exported.
	ag(?), asElement(?), asAttribute(?), asText(?),
allowMultibyte Attributes asElement, as Attribute	and asText are mutually exclusive.
No child elements are permitted (at	ttempt to do so, results in a processing failure).
stream XML element node that defines a S	StormWorks stream to be exported.
asText(?)	allAttributes(?), asElement(?), asAttribute(?),
	e and asText are mutually exclusive.
The list of attributes: attribute(?)	
asAttribute file. Only one of these attributes ca	www data should be presented in a resulting XML in be set to "true" for any given node, and if writed from parent. If still none of these attributes as Textwas set to "true".
Example: The node with key equal to "Some presented as:	Γag" and value equal to "SomeData" will be
<sometag>SomeData<th>>, if asElement is "true"</th></sometag>	>, if asElement is "true"
SomeTag="SomeData", if asAttrib	ute is "true"
SomeData, if asText is "true"	



tag	XML attribute defining the name of the type, under which all data related to this object will be anchored.
	This attribute may occur in object , stream and attribute nodes and is optional in all of them.
	If omitted in an object , it will be defaulted to the type attribute of this node. For str eam node, it will be defaulted to the name attribute of a stream. For attribute node, it will be defaulted to its expression attribute, but <u>only if</u> the expression does not begin with "simple;" string (in which case the whole template is invalid and its processing will fail).
	Example: The following template fragment:
	<pre><object aselement="true" tag="DEVICE" type="DeviceEx"> will get mapped to: <device>data depending on the children of object </device></object></pre>
	If the template fragment were changed to: <object aselement="true" tag="DeviceParameters" type="DeviceEx"> then the corresponding export fragments would have been changed to: <deviceparameters> <!-- DeviceParameters --></deviceparameters></object>
type	XML attribute node that defines the StormWorks type of object. The type of objects defines what attributes and streams may be access and exported.
selector	XML element node that is the StormWorks statement. This statement is evaluated to produce a list of children, each then undergoing subsequent processing according to their definition, etc.
filter	XML element node that is the StormWorks statement. This statement should evaluate to boolean value and can be used to restrict the list of children produced by a selector statement.

Parameters can also be defined as templateParameters that can be used in expressions in the DataAccessTemplate. Any parameters passed in the URL that match an attribute name will be accessible in the statement language embedded in the template as 'templateParameter.cparameter value>'. Please see Data Access - Export Triggering: GET for further help and information on this.



Data Access Templates Management – Listing and Creating

Lists Data Access templates used to access the internal DsKernel data, and creates new Data Access templates.

URL: dataAccessTemplates

- Methods Summary
- GET Method Details
 - Response
 - Example
- POST Method Details
 - Request
 - Response
 - Example

Methods Summary

- GET Method lists all Data Access templates existing on the server.
- POST Method creates a new Data Access template.

GET Method Details

Lists all Data Access templates existing on the server.

Response

Lists information about each of templates defined on a server. Each entry has the following attributes:

Name	Description
name	name of the template.
description	description of the template.
type	type of the template (either "USER" or "SYSTEM").

INPUT	<pre>curl -u admin:admin https://localhost/api/dataAccessTemplates?media=xml - X GET -H "content-type:application/xml"</pre>



POST Method Details

Creates a new Data Access Template.

Request

An XML definition of the template, defined according to the Export template syntax section of the Data Access Interface.

Response

A new template. If unsuccessful, a description of the error that occurred.

```
INPUT
        curl -u admin:admin https://localhost/api/dataAccessTemplates?media=xml -
        X POST -H "content-type:application/xml" -d \
         '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <dataAccessTemplate type="USER" name="C">
          <description>Some description</description>
          <object type="DeviceEx" tag="device">
            <selector>simple;ref.devices</selector>
            <filter></filter>
            <attribute asElement="false" tag="name1" expression="name"/>
            <object type="PortEx" tag="port">
              <selector>simple;ref.ports</selector>
              <filter></filter>
              <attribute asElement="false" tag="descr" expression="simple; this.</pre>
        ifDescr"/>
            </object>
          </object>
        </dataAccessTemplate>'
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <dataAccessTemplate type="USER" name="C">
          <description>Some description</description>
          <object type="DeviceEx" tag="device">
            <attribute expression="name" tag="name1"/>
            <object type="PortEx" tag="port">
              <attribute expression="simple;this.ifDescr" tag="descr"/>
              <selector>simple;ref.ports</selector>
              <filter></filter>
            </object>
            <selector>simple;ref.devices</selector>
            <filter></filter>
          </object>
        </dataAccessTemplate>
```



Data Access Templates Management – Operations on a Single Template

Manages a single Data Access template entity.

URL: dataAccessTemplates/{templateName}

- Methods Summary
- GET Method Details
 - Response
 - Example
- PUT Method Details
 - Request
 - Response
 - Example
- DELETE Method Details
 - Response
 - Example

Methods Summary

- GET Method lists the contents of the specific Data Access template identified in the request.
- PUT Method modifies an existing Data Access template.
- DELETE Method removes an existing Data Access template from a server.

GET Method Details

Response

Detailed information about the Data Access template, according to the Export template syntax section of the Data Access Interface page.

Example

INPUT

curl -u admin:admin https://localhost/api/dataAccessTemplates/C?
media=xml -H "content-type:application/xml"



```
OUTPUT
       <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <dataAccessTemplate type="USER" name="C">
          <description>Some description</description>
          <object type="DeviceEx" tag="device">
            <attribute expression="name" tag="name1"/>
            <object type="PortEx" tag="port">
              <attribute expression="simple;this.ifDescr" tag="descr"/>
              <selector>simple;ref.ports</selector>
              <filter></filter>
            </object>
            <selector>simple;ref.devices</selector>
            <filter></filter>
          </object>
        </dataAccessTemplate>
```

PUT Method Details

Modifies the existing Data Access Template.

Request

An XML definition of the template, defined according to a paragraph 2.38.2.2

Response

The modified Data Access Template. If unsuccessful, a description of the error.



```
INPUT
         curl -u admin:admin https://localhost/api/dataAccessTemplates/C?
         media=xml -X PUT -H "content-type:application/xml" -d \
         '<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
         <dataAccessTemplate type="USER" name="C">
           <description>Some description</description>
           <object type="DeviceEx" tag="device">
             <selector>simple;ref.devices</selector>
             <filter></filter>
             <attribute asElement="false" expression="name"/>
             <attribute asElement="false" expression="id"/>
             <object type="PortEx" tag="port">
               <selector>simple;ref.ports</selector>
               <filter></filter>
               <attribute asElement="false" tag="descr" expression="simple; this.</pre>
         ifDescr"/>
             </object>
           </object>
         </dataAccessTemplate>'
OUTPUT | <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
        <dataAccessTemplate type="USER" name="C">
          <description>Some description</description>
          <object type="DeviceEx" tag="device">
            <attribute expression="name" tag=""/>
            <attribute expression="id" tag=""/>
              <object type="PortEx" tag="port">
                 <attribute expression="simple;this.ifDescr" tag="descr"/>
                 <selector>simple;ref.ports</selector>
                 <filter></filter>
              </object>
              <selector>simple;ref.devices</selector>
              <filter></filter>
          </object>
        </dataAccessTemplate>
```

DELETE Method Details



Removes the existing Data Access Template.

Response

The template after modifications on success, the error description otherwise.

INPUT	<pre>curl -u admin:admin https://localhost/api/dataAccessTemplates/C? media=xml -X DELETE -H "content-type:application/xml"</pre>
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <statusinfo></statusinfo></pre>



Data Access – Export Triggering

Export user-defined Data Access templates.

URL: dataAccess/{templateName}

- Methods Summary
- GET Method details
 - Request
 - Response
 - Examples

Methods Summary

• GET Method - exports user-defined Data Access templates.

GET Method details

Exports user-defined Data Access templates. Also, can accept parameters that will be defined as templateParameters that can be used in expressions in the DataAccessTemplate.

An export, generated according to the user-defined Data Access template.

Request

Name	Description
templateServer	ID of the server (see GET Method detail section of Servers page) from which to retrieve the template.
view	name of View of which objects will be processed. This argument may appear multiple times in which case any objects belonging to at least one of the Views will be processed.
startTime endTime	start and end timestamp for exporting a stream data. Negative values are not allowed and the default value for these parameters is 0. As a special case, if both startTime and endTime are 0, then all the streams being exported will contain only the last sample.
maxResults	maximum number of elements that will be exported.



position	next element that the export should start from. It is optional, in which case it defaults to 0:0.
	The result of each export will have the "position" element defined. This element consists of pairs of numbers that are separated from other pairs by commas, and the elements of a pair are separated by a colon, e.g:
	1:2,3:4,5:6
	After successful call that returns maximum number of elements (defined by maxRe sults parameter), the position will point to the next element to continue from.
	To achieve continuation, the position returned from the last call should be passed along as an argument to the next call – as long as the returned value is an "END"

Response

An export, generated according to the user-defined Data Access template. If unsuccessful, description of the error will be returned.

string, which signals that no more data are available.

Examples

Below are three examples showing the "continuation" mechanism, together with some explanation. Please note that normally the XML output generated by Data Access mechanism is not formatted – it has only been presented as formatted here for the purpose of readability.

The first example omits the position argument, which exports data from the very beginning:

```
curl -u admin:admin https://localhost/api/dataAccess/C?
INPUT
         maxResults=5&view=All%20Objects&media=xml -H "content-type:application
         /xml"
OUTPUT
        <C serverName="ENTLONDEV08" serverId="dae26869-46e3-46df-91a0-</pre>
        28ce61b28d05" templateServerId="dae26869-46e3-46df-91a0-28ce61b28d05"
        startTime="0" endTime="0" elementsProcessed="5" position="565:2,575:0"
        processingTime="0.001">
          <device id="565" name="apiDevice">
            <port id="572" descr=" [ Vl1 ] Vlan1" />
            <port id="573" descr=" [ Fa0/1 ] FastEthernet0/1" />
            <port id="574" descr=" [ Fa0/2 ] FastEthernet0/2" />
            <port id="575" descr=" [ Fa0/3 ] FastEthernet0/3" />
          </device>
        </C>
```

The second one is an example of the call just after the first one, which picks up from where the previous call left off:



The third example is the last call, where the number of available elements were less than **maxResults** parameters (the **elementsProcessed** is less than 5, and the returned **position** is "END"):

The GET call also accepts parameters that will be defined as templateParameters that can be used in expressions in the DataAccessTemplate. Any parameters passed in the URL that match an attribute name will be accessible in the statement language embedded in the template as 'templateParameter.cparameter

URL format: <parameter name>=<value>

Notes:

- the parameter's name must be an existing attribute name.
- arguments of type string, integer and float are supported.
- string values with embedded " or \ characters are escaped.
- string values may be optionally wrapped with quotes.

e.g.



name=myDevice

name="myDevice"

name='myDevice'

Example 1:

curl -u admin:admin "https://<entuity server>/api/dataAccess/A?view=All% 200bjects&id=804&media=xml"

A filter expression in the template:

<filter>simple;templateParameter.id==id</filter>

would match any objects with an attribute 'id' with the value '804'.

Example 2:

curl -u admin:admin "https://<entuity server>/api/dataAccess/B?view=All%
200bjects&name=myDevice&media=xml"

A filter expression in the template:

<filter>simple;templateParameter.name==name</filter>

would match any objects with an attribute 'name' with the value 'myDevice'.



Flow Data - Listing Devices with Stored Flow Information

Lists network devices for which flow is being collected and stored, and flow history for a specified device. Network devices must be configured to send flow information to ENA, meaning that ENA has no control over the flow information it receives. Further, flow information is not stored by default - this must be enabled for each device where desired.

URL: http(s)://{server hostname}/api/flowDevices

- Method summary
- GET Method detail
 - Request
 - Response
 - Examples

Method summary

GET Method details - lists devices for which flow information is being collected.

GET Method detail

Lists the devices for which flow information is currently being collected.

Request

Call the resource URL with the GET method.

Response

The API will respond with a list of devices for which ENA has collected flow data. Within the list, each device is represented as an associative array, containing the following information about the devices:

Name	Description
flowServerId	ID of the flow server that is collecting flow for this device. Typically, each Entuity server manages a single flow server. In this case you would expect flowServerId to match serverId . However, an Entuity server can manage multiple flow servers and this attribute would allow you to determine which one.
zoneName	name of the zone that the device has been placed in. If zoning is not in use, the value of zoneName will be null.
deviceld	ID of the device as assigned when the device is taken under management by ENA. This ID is unique to a server but must be used in conjunction with flowServer Id to uniquely identify a device in a multi-server configuration.



IpAddress	string representation of the management IP address of the device. IPv4 and IPv6 are supported.
deviceName	string representation of the device's display name.
swObld	StormWorks Object ID. All objects, including devices, are assigned a stormworks object ID. As with deviceld , swObId must be used in conjunction with flowServerId to uniquely identify an object in a multi-server configuration.
vxlan	indicates that the flow record originates from a VMWare virtualized device. Either True or False.
ifIndexes	list of port ifIndexes for which flow is being collected. Note that ifIndexes are only unique within a device.

```
curl -u admin:admin https://localhost/api/flowDevices?media=json
INPUT
OUTPUT
        {
           "devices" : [ {
             "flowServerId" : "5ba829fa-86d9-4246-b4ce-24cc896180c0",
             "zoneName" : null,
             "deviceId" : 17,
             "ipAddress" : "10.18.0.2",
             "deviceName" : "ca01",
             "swObjId" : 866,
             "vxlan" : false,
             "ifIndexes" : [ 1, 2, 3, 4, 5 ]
             "flowServerId" : "5ba829fa-86d9-4246-b4ce-24cc896180c0",
             "zoneName" : null,
             "deviceId" : 1,
             "ipAddress" : "10.1.2.2",
             "deviceName" : "hq01",
             "swObjId" : 730,
             "vxlan" : false,
             "ifIndexes" : [ 1, 2, 3, 4, 5 ]
          }
         ]
        }
```



Flow Data - Listing Applications Supporting Flow

Lists the applications currently configured to support flow. ENA can characterize flow information by application, doing so by looking at the destination port at the transport layer (TCP/UDP).

URL: http(s)://{server hostname}/api/api/flowApplications

- Method summary
- GET Method detail
 - Request
 - Response
 - Examples

Method summary

• GET Method details - lists applications configured to support flow.

GET Method detail

List applications configured to support flow.

Request

Call the resource URL with the GET method.

Response

An associative array containing the single member called "applications". The value of applications is a list of application names.

Examples

This list contains 5665 applications by default, so the list has been truncated in this example.

INPUT

curl -u admin:admin https://testld.entuity.com/api/options
/flowApplications?media=json



```
OUTPUT

{
    "applications" : [ {
        "name" : "1ci-smcs"
    }, {
        "name" : "3Com-nsd"
    }, {
        "name" : "3PC"
    }, {
        "name" : "3com-amp3"
    }, {
        ...
```





Flow Data - Time Series History

Lists time series by flow data, grouped and filtered according to query parameters.

URL: http(s)://{server hostname}/api/flowHistory

- Method summary
- GET Method detail
 - Request
 - Examples

Method summary

• GET Method details - lists time series by flow data.

GET Method detail

List time series by flow data

Request

Call the resource URL with the GET method.

Examples

Total traffic for deviceID 1 at 5 minute intervals in last 30 minutes:

INPUT

curl -u admin:admin https://localhost/api/flowHistory/1?
media=xml&startTime=-1800&interval=300



Grouped by ingress interface:

```
curl -u admin:admin https://localhost/api/flowHistory/1?
INPUT
        media=xml&startTime=-900&interval=300&groups=ifIn
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="true"?>
       <ns2:flowHistoryResult xmlns:ns2="https://www.entuity.com/schemas/flow">
          <sampleSet>
            <key>5</key>
            <sample rate="5446.9033333333334" timestamp="1507543200" volume="</pre>
       1634071"/>
            <sample rate="4787.08" timestamp="1507543500" volume="1436124"/>
          </sampleSet>
          <sampleSet>
           <key>7</key>
            <sample rate="3815.54" timestamp="1507543200" volume="1144662"/>
            <sample rate="3208.3" timestamp="1507543500" volume="962490"/>
          </sampleSet>
       </ns2:flowHistoryResult>
```

Grouped by egress interface:

```
INPUT curl -u admin:admin https://localhost/api/flowHistory/1?
media=xml&startTime=-900&interval=300&groups=ifOut
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="true"?>
        <ns2:flowHistoryResult xmlns:ns2="https://www.entuity.com/schemas/flow">
          <sampleSet>
            <key>0</key>
            <sample rate="1959.33333333333333" timestamp="1507543500" volume="</pre>
        587800"/>
            <sample rate="1614.19" timestamp="1507543800" volume="484257"/>
         </sampleSet>
         <sampleSet>
            <key>5</key>
            <sample rate="3177.6666666666666" timestamp="1507543500" volume="</pre>
        953300"/>
            <sample rate="4375.68" timestamp="1507543800" volume="1312704"/>
          </sampleSet>
          <sampleSet>
            <key>7</key>
            <sample rate="2858.38" timestamp="1507543500" volume="857514"/>
            <sample rate="3881.9966666666664" timestamp="1507543800" volume="</pre>
       1164599"/>
          </sampleSet>
        </ns2:flowHistoryResult>
```

Grouped by interface (note the double counting):

INPUT

curl -u admin:admin https://localhost/api/flowHistory/1?
media=xml&startTime=-900&interval=300&groups=if



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="true"?>
        <ns2:flowHistoryResult xmlns:ns2="https://www.entuity.com/schemas/flow">
          <sampleSet>
            <key>0</key>
            <sample rate="1614.19" timestamp="1507543800" volume="484257"/>
            <sample rate="2288.0533333333333" timestamp="1507544100" volume="</pre>
        686416"/>
          </sampleSet>
          <sampleSet>
            <key>5</key>
            <sample rate="9842.563333333334" timestamp="1507543800" volume="</pre>
        2952769"/>
            <sample rate="10004.85" timestamp="1507544100" volume="3001455"/>
          </sampleSet>
          <sampleSet>
            <key>7</key>
            <sample rate="8286.98" timestamp="1507543800" volume="2486094"/>
            <sample rate="7776.7366666666667" timestamp="1507544100" volume="</pre>
        2333021"/>
          </sampleSet>
        </ns2:flowHistoryResult>
```

Grouped by application and sender. Restricted to limited set of applications and IP subnet:

```
INPUT
curl -u admin:admin https://localhost/api/flowHistory/1?
media=xml&startTime=-900&interval=300&groups=appName,srcIP&filter=AND(OR
(OR(EQ(appName,ICMP),EQ(appName,snmp)),EQ(appName,smtp)),LIKE(srcIP,
10.44.2.*))
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="true"?>
       <ns2:flowHistoryResult xmlns:ns2="https://www.entuity.com/schemas/flow">
         <sampleSet>
          <key>ICMP </key>
          <key>10.44.2.10</key>
          <sample rate="0.32" timestamp="1507559400" volume="96"/>
          <sample rate="0.48" timestamp="1507559700" volume="144"/>
         </sampleSet>
         <sampleSet>
          <key>ICMP</key>
          <key>10.44.2.76</key>
          <sample rate="0.32" timestamp="1507559400" volume="96"/>
           <sample rate="0.48" timestamp="1507559700" volume="144"/>
         </sampleSet>
         <sampleSet>
          <key>smtp</key>
          <key>10.44.2.130
          <sample rate="1.52" timestamp="1507559700" volume="456"/>
         </sampleSet>
         <sampleSet>
          <key>snmp</key>
          <key>10.44.2.122</key>
          <sample rate="140.92666666666668" timestamp="1507559400" volume="42278"</pre>
       />
          <sample rate="160.25" timestamp="1507559700" volume="48075"/>
         </sampleSet>
       </ns2:flowHistoryResult>
```



Maintenance List

Lists available maintenance schedules or create a new maintenance schedule.

URL: maintenance

- Method Summary
- GET Method detail
 - Response
 - Example
- POST Method detail
 - Request
 - Example

Method Summary

- GET Method lists available maintenance schedules.
- POST Method create a new maintenance schedule.

GET Method detail

Lists available maintenance schedules.

Response

A map of maintenance ids to their names.

Example

INPUT curl -u admin:admin https://localhost/api/maintenance



```
OUTPUT {
    "items" : [ {
        "id" : 29,
        "name" : "supp"
    }, {
        "id" : 30,
        "name" : "test"
    } ],
    "count" : 2
}
```

POST Method detail

Creates a new maintenance schedule.

Request

A maintenance settings object. This object is used many times in Maintenance API.

Name	Description
id	maintld of this maintenance schedule.
name	specified name of this maintenance schedule. Must not be empty or null, and must be unique for this server. Maximum of 255 characters.
description	specified description of this maintenance schedule. Maximum of 255 characters.
devices	Map of serverIds (string) to a List of deviceIds (integer). Contains the devices that will be affected by this schedule. Devices are identified by their deviceId on the server from the serverId. This value will be ignored if it is not used in a POST call to create a new schedule.
suppressEvents	if true , then the devices will have their events suppressed during the times that they would be under maintenance.
serverId	serverId of the server that created this schedule.
masterId	if 0, this schedule was created locally. Otherwise, the serverId is the master of this schedule, and the original schedule's ID is this value.
addDevices	map of serverIds to list of deviceIds to add to the existing list of devices. Only applicable to modifying existing schedules, otherwise will be null.
removeDevices	map of serverlds to list of devicelds to remove from the existing list of devices. Only applicable to modifying existing schedules, otherwise will be null.
schedule	an object that describes a schedule.
begins	time in which the schedule starts in seconds.



	• • • • • • • • • • • • • • • • • • •
ends	time in which the schedule stops in seconds.
recurs	if false , the schedule will be active throughout the time between "begins" and "ends". If true , follows a recurrence of periods given by the below values, but only between "begins" and "ends".
daysSecondsFrom	time of day the maintenance schedule should start being active in seconds. (Hours * 3600 + Minutes * 60 + Seconds) (e.g. 0 = 0000 hours (12 AM), 3600 = 0100 (1 AM), 34200 = 0930 (9:30AM)) If "daysSecondsFrom" = 0 and "daysSecondsTo" = 86400 (24 hours), then it will
	be active the whole day.
daysSecondsTo	time of day it should stop being active in seconds. Must be larger than "daysSecondsFrom".
recurrenceKind	can be "EVERY_DAY", "WEEK_DAYS", "MONTH_DAYS".
validDays	string description of valid days. Section of days are separated by a comma ",", and if there are 2 or more consecutive days then the first and last days are given with a hyphen "-" in between (e.g. "1, 5, 6-7, 10-22").
	When setting this field, it is valid to contain consecutive days separately. If there are values greater than the maximum, those values will be ignored (e.g. 8 for "WEEK_DAYS").
	If "recurrenceKIND" is "WEEK_DAYS", this describes the week days on which the schedule should be active (max 7). (e.g. 1 = Monday, 7 = Sunday).
	If "recurrenceKind" is "MONTH_DAYS", this describes the days in a month on which the schedule should be active (max 31) (e.g. 3 = 3rd of every month, 31 = 31st of every month that has a 31st day).
validMonths	string description of valid months (e.g. 1 = January, 6 = June).
invert	if true , this maintenance will be active when outside of the given schedule.



```
INPUT
       curl -u admin:admin https://localhost/api/maintenance -X POST -H "content-
       type:application/json" -d \
        ' {
         "name" : "ddd",
          "devices" : {
          "server-id" : [ 12 ]
          "suppressEvents" : false,
          "schedule" : {
          "begins" : 1562910269,
          "ends" : 0,
          "recurs" : true,
          "daysSecondsFrom" : 39600,
          "daysSecondsTo" : 50400,
          "recurrenceKind" : "MONTH_DAYS",
          "validDays": "2-3, 8, 10, 15, 17-18, 22-31",
          "validMonths" : "1-4, 6-12",
       }'
```



```
OUTPUT {
          "id" : 5,
          "name" : "ddd",
          "description" : "",
          "devices" : {
          "test" : [ 12 ]
         },
          "suppressEvents" : false,
          "schedule" : {
          "begins" : 1562910269,
          "ends" : 0,
          "recurs" : true,
          "daysSecondsFrom" : 39600,
          "daysSecondsTo : 50400,
          "recurrenceKind" : "MONTH_DAYS",
           "validDays" : "2-3, 8, 10, 15, 17-18, 22-31",
           "validMonths" : "1-4, 6-12",
          "invert" : false
          "serverId" : "c4237d15-de15-4d03-9e07-2a76ddd95018",
          "masterId" : 0,
          "addDevices" : null,
         "removeDevices" : null
       }
```



Maintenance Details

Inspect, update or delete a maintenance schedule.

URL: maintenance/{maintenance id}

- Method Summary
- GET Method detail
 - Response
 - Examples
- PUT Method detail
 - Request
 - Response
 - Examples
- Delete Method detail
 - Response
 - Example

Method Summary

- GET Method inspect a maintenance schedule.
- PUT Method update a maintenance schedule.
- DELETE Method delete a maintenance schedule.

GET Method detail

Return all details of this maintenance schedule with the given maintenance id.

Response

Returns a Maintenance Settings object. See Maintenance Settings.

Name	Description
id	maintId of this maintenance schedule.
name	specified name of this maintenance schedule. Must not be empty or null, and must be unique for this server. Maximum of 255 characters.
description	specified description of this maintenance schedule. Maximum of 255 characters.
devices	map of serverIds (string) to a List of deviceIds (integer). Contains the devices that will be affected by this schedule. Devices are identified by their deviceId on the server from the serverId. This value will be ignored if it is not used in a POST call to create a new schedule.



suppessEvents	if true , then the devices will have their events suppressed during the times that they would be under maintenance.
serverId	serverId of the server that created this schedule.
masterId	if 0, this schedule was created locally. Otherwise, the serverId is the master of this schedule, and the original ID is this value.
addDevices	map of serverlds to list of devicelds to add to the existing list of devices. Only applicable to modifying existing schedules, otherwise will be null.
removeDevices	map of serverlds to list of devicelds to remove from the existing list of devices. Only applicable to modifying existing schedules, otherwise will be null.
schedule	an object that describes a schedule.

INPUT	curl -u admin:admin https://localhost/api/maintenance/2?media=json
-------	--------------------------------------------------------------------



```
OUTPUT | {
           "id" : 2,
           "name" : "test",
           "description" : "ate",
           "devices" : { },
           "suppressEvents" : true,
           "schedule" : {
            "begins" : 1571838648,
           "ends" : 1572965448,
            "recurs" : true,
            "daysSecondsFrom" : 0,
            "daysSecondsTo: 86400,
           "recurrenceKind" : "WEEK_DAYS",
            "validDays" : "5-6",
           "validMonths" : "1-4, 6, 8-9, 11-12",
           "invert" : false
           "serverId" : "46e4aed7-3804-494a-90f8-3867481a3d39",
           "masterId" : 0,
           "addDevices" : null,
           "removeDevices" : null
         }
```

PUT Method detail

Modify this maintenance schedule with given values to the schedule with the given maintenance id, and return the modified maintenance schedule.

Request

Returns a Maintenance Settings object. See Maintenance Settings.

Name	Description
id	maintld of this maintenance schedule.
name	specified name of this maintenance schedule. Must not be empty or null, and must be unique for this server. Maximum of 255 characters.



description	specified description of this maintenance schedule. Maximum of 255 characters.
devices	map of serverIds (string) to a List of deviceIds (integer). Contains the devices that will be affected by this schedule. Devices are identified by their deviceId on the server from the serverId. This value will be ignored if it is not used in a POST call to create a new schedule.
suppessEvents	if true , then the devices will have their events suppressed during the times that they would be under maintenance.
serverId	serverId of the server that created this schedule.
masterid	if 0, this schedule was created locally. Otherwise, the serverId is the master of this schedule, and the original ID is this value.
addDevices	map of serverIds to list of deviceIds to add to the existing list of devices.
removeDevices	map of serverIds to list of deviceIds to remove from the existing list of devices.
schedule	an object that describes a schedule.
Scriedule	an object that describes a serieudic.

Response

Returns a Maintenance Settings object. See Maintenance Settings.

The devices list cannot be set with this method, and any changes must be made using "addDevices" and "removeDevices".

Any value that does not exist in the request will keep its original value. However, **schedule** is an object, so any changes to schedule will require all values in the schedule to be present.

Name	Description
id	maintld of this maintenance schedule.
name	specified name of this maintenance schedule. Must not be empty or null, and must be unique for this server. Maximum of 255 characters.
description	specified description of this maintenance schedule. Maximum of 255 characters.
devices	map of serverIds (string) to a List of deviceIds (integer). Contains the devices that will be affected by this schedule. Devices are identified by their deviceId on the server from the serverId. This value will be ignored if it is not used in a POST call to create a new schedule.
suppessEvents	if true , then the devices will have their events suppressed during the times that they would be under maintenance.
serverId	serverId of the server that created this schedule.
masterid	if 0, this schedule was created locally. Otherwise, the serverId is the master of this schedule, and the original ID is this value.
addDevices	map of serverlds to list of devicelds to add to the existing list of devices.
removeDevices	map of serverlds to list of devicelds to remove from the existing list of devices.
schedule	an object that describes a schedule.



Examples

```
INPUT
         curl -u admin:admin https://localhost/api/maintenance/2 -X PUT -H
         "content-type:application/json" -d \
         ١{
           "addDevices" : {
           "server-id" : [ 12 ]
           }
         }'
OUTPUT
           "id" : 2,
           "name" : "test",
           "description" : "ate",
           "devices" : {
           "server-id" : [ 12 ]
         },
           "suppressEvents" : true,
           "schedule" : {
            "begins" : 1571838648,
            "ends" : 1572965448,
            "recurs" : true,
            "daysSecondsFrom" : 0,
            "daysSecondsTo: 86400,
            "recurrenceKind" : "WEEK_DAYS",
            "validDays" : "5-6",
            "validMonths" : "1-4, 6, 8-9, 11-12",
            "invert" : false
           },
           "serverId" : "46e4aed7-3804-494a-90f8-3867481a3d39",
           "masterId" : 0,
           "addDevices" : null,
           "removeDevices" : null
         }
```

Delete Method detail

Remove this maintenance schedule. Returns OK if successful.



Response

Returns OK status if successful.

```
INPUT      curl -X DELETE -u admin:admin https://localhost/api/maintenance/2?
media=json

OUTPUT {
    "message" : "OK"
    }
```



Meraki Cloud Controllers

Lists Meraki Cloud Controllers

URL: http(s)://{server hostname}/api/MerakiCloudControllers?serverId={serverId}

If the serverId is left blank, then the server will be the one being contacted.

- Methods Summary
- GET Method details
 - Response
 - Examples

Methods Summary

• GET Method - lists Meraki Cloud Controllers.

GET Method details

Lists Meraki Cloud Controllers

Response

The list of items, with entries according to the following format:

Name	Description
serverID	the Entuity server ID string.
objectID	the StormWorks object ID of the Meraki device on the server.
name	the display name of the device in ENA.
stormWorksType	StormWorks type.
webhookURL	this is the URL that should be put in the settings of the cloud controller (using the Cisco website, not anything in ENA).
secretKeyIsSet	if the secret key is set.
sharedSecret	if the secret key is shared.
webhookEnabled	if the webhook is enabled.
status	this is the same as the status displayed in the ENA webhook admin page.



merakiDeviceCount	number of devices managed by the cloud controller.
secretKey	key that should be entered on the cloud controller settings page (same as the URL).

```
INPUT
        curl -u admin:admin https://localhost/api/MerakiCloudControllers
OUTPUT {
          "items" : [ {
            "serverId" : "9a55e715-3c18-4ef1-9cc9-f1b7f29ea139",
            "objectId" : 5073,
            "name" : "Meraki",
            "stormWorksType" : "MerakiCloudController",
            "webhookURL" : "https://localhost/webUI/api/webhook/cloudAlert/Meraki?
       serverId=9a55e715-3c18-4ef1-9cc9-f1b7f29ea139&objectId=5073",
            "secretKeyIsSet" : false,
           "sharedSecret" : null,
            "webhookEnabled" : true,
           "status" : "O alerts in the last 24hrs",
            "merakiDeviceCount" : 109
         } ],
         "count" : 1
       }
```



Shared Secret Key

List, create or delete shared secret keys

URL: http(s)://{server hostname}/api/webhook/cloudAlert/Meraki/secretKey?objectId={StormWorks object ID}[&serverId={server ID}]

objectId is the StormWorks ID of the Meraki Cloud Controller. You must provide a StormWorks object ID.

serverId is an optional parameter.

- Methods Summary
- GET Method details
 - Response
 - Example
- POST Method details
 - Response
 - Example
- DELETE Method details
 - Response
 - Example

Methods Summary

- GET Method list shared secret keys
- POST Method create shared secret keys
- DELETE Method delete shared secret keys

GET Method details

Lists shared secret keys

Response

The list of items, with entries according to the following format:

Name	Description
serverID	the Entuity server ID string.
objectID	the StormWorks object ID of the Meraki device on the server.
name	the display name of the device in ENA.
stormWorksType	StormWorks type.
webhookURL	this is the URL that should be put in the settings of the cloud controller (using the Cisco website, not anything in ENA).



secretKeyIsSet	if the secret key is set.
sharedSecret	if the secret key is shared.
webhookEnabled	if the webhook is enabled.
status	this is the same as the status displayed in the ENA webhook admin page.
merakiDeviceCount	number of devices managed by the cloud controller.
secretKey	key that should be entered on the cloud controller settings page (same as the URL).

Example

POST Method details

Adds shared secret keys

Response

The list of items, with entries according to the following format:

Name	Description
serverID	the Entuity server ID string.
objectID	the StormWorks object ID of the Meraki device on the server.
name	the display name of the device in ENA.
stormWorksType	StormWorks type.
webhookURL	this is the URL that should be put in the settings of the cloud controller (using the Cisco website, not anything in ENA).
secretKeyIsSet	if the secret key is set.
sharedSecret	if the secret key is shared.
webhookEnabled	if the webhook is enabled.
status	this is the same as the status displayed in the ENA webhook admin page.



merakiDeviceCount	number of devices managed by the cloud controller.
secretKey	key that should be entered on the cloud controller settings page (same as the URL).

Example

DELETE Method details

Deletes shared secret keys

Response

The list of items, with entries according to the following format:

Name	Description	
serverID	the Entuity server ID string.	
objectID	the StormWorks object ID of the Meraki device on the server.	
name	the display name of the device in ENA.	
stormWorksType	StormWorks type.	
webhookURL	this is the URL that should be put in the settings of the cloud controller (using the Cisco website, not anything in ENA).	
secretKeyIsSet	if the secret key is set.	
sharedSecret	if the secret key is shared.	
webhookEnabled	if the webhook is enabled.	
status	this is the same as the status displayed in the ENA webhook admin page.	
merakiDeviceCount	number of devices managed by the cloud controller.	
secretKey	key that should be entered on the cloud controller settings page (same as the URL).	



```
INPUT
    curl -u admin:admin https://localhost/api/webhook/cloudAlert/Meraki
/secretKey?objectId=5073 -X DELETE

OUTPUT
{
    "serverId" : "9a55e715-3c18-4ef1-9cc9-f1b7f29ea139",
    "objectId" : 5073,
    "secretKey" : ""
}
```



Meraki Webhooks

Return the status of, and enable or disable, Meraki webhooks.

URL: http(s)://{server hostname}/api/webhook/cloudAlert/Meraki/enabled?objectId={StormWorks object ID}[&serverId={server ID}]

objectId is the StormWorks ID of the Meraki Cloud Controller. You must provide a StormWorks object ID.

serverld is an optional parameter.

- Methods Summary
- GET Method details
 - Example
- PUT Method details
 - Example

Methods Summary

- GET Method return the status of a Meraki webhook, i.e. enabled or disabled.
- PUT Method enable or disable a Meraki webhook. Will accept true (enable) or false (disable).

GET Method details

Return the status of a Meraki webhook, i.e. enabled or disabled.

Example

INPUT	<pre>curl -u admin:admin https://localhost/api/webhook/cloudAlert/enabled /objectId=5073</pre>
ОИТРИТ	true

PUT Method details

Enable or disable a Meraki webhook. Will accept true (enable) or false (disable).

INPUT	<pre>curl -u admin:admin https://localhost/api/webhook/cloudAlert/enabled /objectId=5073 -X PUT -H "Content-type:plain/text" -d "false"</pre>	
OUTPUT	false	



Cisco DNA Center Webhooks

List DNA Center webhooks.

URL: http(s)://{server hostname}/api/webhook/cloudAlert

- Methods Summary
- GET Method details
 - Example

Methods Summary

• GET Method - list DNA Center webhooks

GET Method details

Returns a list of DNA Center webhooks.

```
INPUT
        curl -k -u admin:admin https://localhost/api/webhook
OUTPUT {
          "items" : [ {
            "serverId" : "163b10d7-be44-4c7b-9b6c-db692a1c87d1",
            "objectId" : 749,
            "name" : "DNAC1",
            "stormWorksType" : "DNACenter",
            "webhookURL" : "https://neon/api/webhook/cloudAlert/DNAC/749?
       serverId=163b10d7-be44-4c7b-9b6c-db692a1c87d1",
            "webhookEnabled" : true,
            "status" : "28 alerts in the last 24hrs",
            "secretKeyIsSet" : false,
            "sharedSecret" : null,
            "deviceCount" : null
        } ],
            "count": 1
        }
```



Raise Webhook Events on Cisco DNA Centers

Enable or disable webhook events on a DNA Center.

URL: http(s)://{server hostname}/api/webhook/cloudAlert/DNAC/{ObjectID}?serverId={serverId}

- Methods Summary
- PUT Method details
 - Example

Methods Summary

• PUT Method - enable or disable webhook events on a DNA Center.

PUT Method details

Enable or disable webhook events on a DNA Center.



```
INPUT
```

```
curl -k -X POST -u admin:admin https://localhost/api/webhook/cloudAlert
/DNAC/<ObjectID>?serverId=<serverId> -H "content-type:application
/json" -d \
  "version": null,
  "instanceId": "8169d18b-ef31-4163-8d90-d9e535b55fb5",
  "eventid": "NETWORK-NON-FABRIC_WIRED-1-200",
  "namespace": "ASSURANCE",
  "name": null,
  "description": null,
  "type": "NETWORK",
  "category": "ALERT",
  "domain": "Connectivity",
  "subDomain": "Non-Fabric Wired",
  "severity": 1,
  "source": "ndp",
  "timestamp": 1583315649978,
  "tags": [ "tag1", "tag2" ],
  "details": {
  "Type": "Network Device",
  "Assurance Issue Details": "This network device ABC is unreachable
from controller. The device role is EDGE",
  "Assurance Issue Priority": "P1",
  "Device": "1.2.3.4",
  "Assurance Issue Name": "Network Device 2.3.4.5 Is Unreachable From
Controller",
  "Assurance Issue Category": "Availability",
  "Assurance Issue Status": "active"
},
  "ciscoDnaEventLink": "dna/assurance/issueDetails?issueId=8169d18b-
ef31-4163-8d90-d9e535b55fb5",
  "note": "To programmatically get more info see here - https://<ip-
address>/dna/platform/app/consumer-portal/developer-toolkit/apis?
apiId=8684-39bb-4e89-a6e4",
  "tntId": "",
  "context": null,
  "tenantId": ""
}'
```



```
OUTPUT
             "message": "Success. DNA Center Alert Webhook received and Entuity event raised."
(when
           }
Webhook
is enabled)
OUTPUT
           {
               "code" : 403,
(when
Webhook
               "contactEmail" : null,
is
               "description" : "Webhook is not enabled for this DNA Center",
disabled)
               "homeRef" : "/",
               "reasonPhrase" : "Forbidden",
               "uri" : "https://www.w3.org/Protocols/rfc2616/rfc2616-sec10.
           html#sec10.4.4"
           }
```



Manage Cisco DNA Center Webhooks

Return the status of, and enable or disable, Cisco DNA Center webhooks.

URL: http(s)://{server hostname}/api/webhook/cloudAlert

- Methods Summary
- GET Method details
 - Example
- PUT Method details
 - Example

Methods Summary

- GET Method return the status of a Cisco DNA Center webhook flag for objectID, i.e. enabled or disabled.
- PUT Method enable or disable a Cisco DNA Center webhook flag for objectID. Will accept true (enable) or false (disable).

GET Method details

Return the status of a Cisco DNA Center webhook flag for objectID, i.e. enabled or disabled.

Example

INPUT	<pre>curl -u admin:admin -k https://localhost/api/webhook/cloudAlert/enabled /<objectid></objectid></pre>
OUTPUT	false

PUT Method details

Enable or disable a Cisco DNA Center webhook flag for objectID. Will accept true (enable) or false (disable).

INPUT	<pre>curl -u admin:admin -k https://localhost/api/webhook/cloudAlert/enabled /<objectid> -X PUT -d "false"</objectid></pre>
OUTPUT	false



Cisco DNA Centers

Return a list of DNA Centers.

URL: http(s)://{server hostname}/api/DNACenters

- Methods Summary
- GET Method details
 - Example

Methods Summary

• GET Method - return a list of DNA Centers.

GET Method details

Return a list of DNA Centers.

```
INPUT
        curl -k -u admin:admin https://localhost/api/DNACenters
OUTPUT {
          "items" : [ {
            "serverId" : "163b10d7-be44-4c7b-9b6c-db692a1c87d1",
            "objectId" : 749,
            "name" : "DNAC1",
            "stormWorksType" : "DNACenter",
            "webhookURL" : "https://enaserver/api/webhook/cloudAlert/DNAC/749?
       serverId=163b10d7-be44-4c7b-9b6c-db692a1c87d1",
            "webhookEnabled" : false,
            "status" : "28 alerts in the last 24hrs",
            "secretKeyIsSet" : false,
            "sharedSecret" : null,
            "deviceCount" : null
          } ],
          "count": 1
        }
```



Credential Management

List, create, edit or remove credentials on a server. Applicable to Enuity v19.0 upwards only.

URL: credential

- Methods Summary
- GET Method detail
 - Response
 - Examples
- POST Method details
 - Request
 - Response
 - Examples
- PUT Method details
 - Response
 - Examples
 - Response
 - Examples

Methods Summary

- GET Method lists credentials.
- POST Method creates a new credential.
- PUT Method edit a credential.
- DELETE Method remove a credential.

GET Method detail

Lists credentials on a server.

Response

Response includes a list of credentials. Each credential has the following attributes.

Examples

INPUT curl -u admin:admin -k https://localhost/api/credential?media=json



```
OUTPUT |
        "items" : [ {
         "id" : 1,
         "deviceId" : 0,
         "kind" : "SHARED",
         "name" : "Public modified",
         "description" : "modified",
         "attributes" : {
          "SnmpV12Attributes" : {
            "community": "******,
            "writeCommunity" : "*****,
         }
        }
        } ],
        "count" : 1
        }
```

```
INPUT
        curl -u admin:admin https://localhost/api
         /credential?media=xml
OUTPUT
        "items" : [ {
         "id" : 18,
         "deviceId" : 0,
         "kind" : "SHARED",
         "name" : "Credential 1",
         "description" : "This is a credential",
         "attributes" : {
          "SnmpV2Attributes" : {
          "community": "*****,
           "writeCommunity" : "*****
          }
         }, {
         "id" : 19,
         "deviceId" : 0,
```



```
"kind" : "SHARED",
 "name" : "Credential 2",
 "description" : "This is also a credential",
 "attributes" : {
 "SshAttributes" : {
   "username" : "admin",
   "password" : "******",
   "sshKey" : "*****
  }
}, {
"id" : 20,
 "deviceId" : 0,
 "kind" : "SHARED",
 "name" : "Third Cred",
 "description" : "Cred number 3",
 "attributes" : {
 "NaviSecAttributes" : {
  "scope" : "GLOBAL",
  "username" : "admin",
   "password" : "*****
}
} ],
"count" : 3
```

POST Method details

Creates a new credential. The user must know the type of credential required. Entuity supports several types of credential and each has different attributes, which is also applicable to the PUT Method.

Request

SnmpV1Attributes; SnmpV2Attributes; SnmpV12Attributes:



Name	Description
community	Community string.
writeCommunity	Write community string.

SnmpV3Attributes:

Name	Description
username	V3 username.
authType	Supported types: NONE MD5 SHA SHA224 SHA256 SHA384 SHA512.
authPassword	Authentication password.
encryptionType	Supported types: NONE DES TRIPLE_DES AES AES256.
encryptionPassword	Encryption password.
context	optional V3 context.

CLiAccessAttributes (Config Management credential):

Name	Description
method	Supported types are: SSH TELNET.
port	The port to connect.
username	Username if required.
password1	Optional password one.



UserAndPasswordAttributes:

Name	Description
username	Username.
password	password.

SshAttributes:

Name	Description
username	Username.
password	password.
sshKey	SSH key. Only one of the password or SSH key must be specified.

NaviSecAttributes:

Name	Description
scope	Supported scopes are:GLOBALLOCALLDAP.
username	connection username.
password	connection password.

AzureAttributes:

Name	Description
clientId	Unique client identity.
secretKey	Azure vault secret key.
tenantld	Tenant identity (GUID).

AwsAttributes:



Name	Description
accessKey	Access Key.
secretKey	Secret Key.

ApiKeyAttributes:

Name	Description
key	Meraki access key.

Response

The list of credentials after an update, as GET method would return them.

Examples

1. Creating an SNMPv1 credential.

```
INPUT
curl -u admin:admin -k https://localhost/api/credential?media=json -X
"POST" -H "content-type:application/json" -d

'{
    "name":"0: RestAPI Test-With Description",
    "description":"Test description",
    "attributes":{
    "SnmpVlAttributes":{
    "community":"public",
    "writeCommunity":"write"
    }
    }
}'
"https://localhost/api/credential?media=json"
```



```
OUTPUT {
    "id" : 3042,
    "deviceId" : 0,
    "kind" : "SHARED",
    "name" : "0: RestAPI Test-With Description",
    "description" : "Test description",
    "attributes" : {
        "SnmpVlAttributes" : {
        "community" : "******",
        "writeCommunity" : "******"
        }
    }
}
```

2. Creating a SSH credential.

```
INPUT
         curl -u admin:admin -k https://localhost/api
         /credential?media=json -X "POST" -H "content-type:
        application/json" -d
         ۱ {
           "name": "178: RestAPI Test SSH-With Description",
           "description": "Test description with SSH",
           "attributes":{
           "CliAccessAttributes":{
            "method": "SSH",
            "port":"22",
            "username": "test",
            "password1":"test!test",
            "password2":"test!test"
            }
         }'
         "https://localhost/api/credential?media=json"
```



```
OUTPUT {
    "id" : 449,
    "deviceId" : 0,
    "kind" : "SHARED",
    "name" : "178: RestAPI Test SSH-With Description",
    "description" : "Test description with SSH",
    "attributes" : {
        "CliAccessAttributes" : {
        "method" : "SSH",
        "port" : 22,
        "username" : "test",
        "password1" : "*******",
        "password2" : "******"
        }
    }
}
```

3. Creating a V3 credential.

```
INPUT
         curl -u admin:admin -k https://localhost/api/credential?media=json -X
         "POST" -H "content-type:application/json" -d
         ١{
           "name": "4: RestAPI Test NONE-NONE No Auth/Encr Pass-With Description",
           "description": "Test description NONE-NONE",
           "attributes":{
          "SnmpV3Attributes":{
            "username": "test",
           "authType": "NONE",
            "authPassword":"",
            "encryptionType": "NONE",
           "encryptionPassword":""
          }
         }
        }'
         "https://localhost/api/credential?media=json"
```



```
OUTPUT |
           "id" : 108,
           "deviceId" : 0,
           "kind" : "SHARED",
           "name" : "4: RestAPI Test NONE-NONE No Auth/Encr Pass-With Description",
           "description" : "Test description NONE-NONE",
          "attributes" : {
           "SnmpV3Attributes" : {
           "username" : "test",
           "authType" : "NONE",
           "authPassword" : "******",
           "encryptionType" : "NONE",
           "encryptionPassword" : "******"
          }
         }
        }
```

4. Creating a CLI credential.

```
INPUT

curl -u admin:admin -k https://localhost/api
/credential?media=json -X "POST" -H "content-
type:application/json" -d

'{

    "name":"181: RestAPI Test SSH No Port-Dupe",
    "attributes":{

    "CliAccessAttributes":{

    "method":"SSH",

    "port":"",

    "username":"test no port",

    "password1":"test",

    "password2":"test"

    }
}

}'

"https://localhost/api/credential?media=json"
```



```
OUTPUT

"id" : 464,

"deviceId" : 0,

"kind" : "SHARED",

"name" : "181: RestAPI Test SSH No Port-Dupe",

"attributes" : {

"CliAccessAttributes" : {

"method" : "SSH",

"port" : 0,

"username" : "test no port",

"password1" : "******",

"password2" : "******"

}

}

}
```

PUT Method details

Modifies parameters of the credential. Entuity supports several types of credential and each has different attributes - please see the POST Method section above for the full list.

Response

Detailed information about the credential after changes, as GET method would return it.

Examples

Where <ID> is the credential ID. Users need only specify the attributes that are to be modified.

```
INPUT

curl -u admin:admin -k https://localhost/api
/credential?media=json -X "PUT" -H "content-type:
application/json" -d

'{
        "name" : "0: RestAPI Test-With Description modified"
}'
        "https://localhost/api/credential/3042?media=json"
```



```
OUTPUT

{
    "id" : 3042,
    "deviceId" : 0,
    "kind" : "SHARED",
    "name" : "0: RestAPI Test-With Description modified"
}
```

```
INPUT
         curl -u admin:admin -k https://localhost/api
         /credential?media=json -X "PUT" -H "content-type:
         application/json" -d
           "attributes" : {
             "SnmpV1Attributes" : {
              "community" : "new_value_test"
             }
            }
           }'
         "https://localhost/api/credential/3515?media=json"
OUTPUT
          "id" : 3515,
          "deviceId" : 0,
          "kind" : "SHARED",
          "attributes" : {
             "SnmpVlAttributes" : {
             "community" : "*****,
             "writeCommunity" : "*****
            }
          }
         }
```

DELETE Method details

Deletes a credential.



Response

The current list of credentials, as the GET method would return it.

Examples

Where <ID> is the credential ID.

INPUT	curl -u admin:admin -k https://localhost/api/credential/147?media=json -X "DELETE"
OUTPUT	<pre>{ "message" : "Deleted credential Id 147" }</pre>



Services Hierarchy

List the services on a View, or create a service on a View.

URL: service

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
 - Example
- POST Method detail
 - Request Parameters
 - Example

Method Summary

- · GET Method list the services on a View.
- POST Method create a service on a View.

GET Method detail

List the services on a View.

Request Parameters

All parameters are optional.

As with query strings, separate parameters with '&', e.g. 'indirect=true&subservices=true'.

Because it is a URL, spaces must be replaced with '%20', e.g. 'My&20Network' instead of 'My Network'.

Name	Description
viewpath	the View path to get services from. Should start with 'My&20Network' (HTML, URL encoding).
	If this value is net set, then the View path will default to 'All Objects', which would return all services.
	To access other users' View paths, prefix with the username and '::', e.g. 'user::My%20Network /AllObjects'
	Example: viewpath=My%20Network/test



indirect	if true, will also return services in child Views of the given View.
	This does not apply to consolidated calls.
	Example: indirect=true
subservices	if true, will also include subservices associated with retrieved services.
	This does not apply to consolidated calls.
	Example: subservices=true
consolidate	if true, will also retrieve service information from remote servers.
	Example: consolidate=true
maxdepth	maximum depth of child services to retrieve. If not set, this will default to 3.
	This applies only to consolidate=true.
	Example: maxdepth=5

Response data keys

Name	Description
objectId	object ID of this service. This is also referenced as 'serviceid' in other RESTful API calls.
serverObjectId	server ID of the server on which this service exists.
serviceName	user-specified name of service.
shortServiceName	user-specified short name of the service.
descriptiveAlias	user-specified description of service.
serviceStatus	gives the current status of the service. • -1 None • 0 Down • 1 Up • 2 Unknown • 3 Degraded
children	lists any children services associated with this service.
subServices	lists any subservices associated with this service.

INPUT curl -u admin:admin https://localhost/api/service



```
OUTPUT | {
           "value": [
             "objectId": 819,
             "serverId": "1758b1ea-2e6e-4bb2-82db-810a153293a2",
             "serviceName": "test",
             "shortServiceName": "",
             "descriptiveAlias": "",
             "serviceStatus": 1,
             "children": null
             "subServices": null
          }
             "objectId": 825,
             "serverId": "1758blea-2e6e-4bb2-82db-810a153293a2",
             "serviceName": "ok",
             "shortServiceName": "",
             "descriptiveAlias": "",
             "serviceStatus": 1,
             "children": null
             "subServices": null
          }
         ],
         "count": 2
```

INPUT

curl -u admin:admin https://localhost/api/service?viewpath=My%20Network/te
/te2&indirect=true&subservices=true



```
OUTPUT

{
    "value": [
    {
        "objectId": 819,
        "serverId": "1758blea-2e6e-4bb2-82db-810a153293a2",
        "serviceName": "test",
        "shortServiceName": "",
        "descriptiveAlias": "",
        "serviceStatus": 1,
        "children": null
        "subServices": null
    }

],
    "count": 1
}
```

POST Method detail

Create a new service on the selected View. Note that new services created this way do not contain any components, and must have them added via Service

Request Parameters

Name	Description
serviceName	user-specified name of service.
serviceType	type of service logic: • 0 None • 1 And • 2 Or • 3 Not • 4 At Least
serviceAtLea stValue	if the service logic type (serviceType) is 4 At Least, the serviceAtLeastValue specifies the minimum number of components that should be OK for the service to be considered OK.
serviceDegra dedThreshold	value in which the service will be considered to be degraded.
raiseEvents	if the service will raise events upon a state change, either true or false.



treatUnknow nAsDown	if the service will treat Unknown statuses as Down, either true or false .
serviceSlaGo al	SLA Availability goal in % (e.g. 99.0 = 99%).
descriptiveAl ias	user-specified description of service.
parentViewP ath	not applicable when creating a service (will use the #viewld given). The View path of the service.
parentServic eld	the parent service's ID.
aggregateEn able	if traffic across all ports is aggregated.
serviceTag	service tag for reports. Can be: • 'Standard' • 'Branch' • 'CIO'
shortService Name	user-specified short name of service.

All values except for serviceName can be left out and required fields will use the Default when Create value instead.

```
INPUT

curl -u admin:admin https://localhost/api/service?viewpath=My%20Network

/te -X POST -H "content-type:application/json" -d

{
    "serviceName": "test"
}
```



```
OUTPUT {
          "info": {
            "serviceId": 819,
            "serviceName": "test",
            "serviceType": 0,
            "serviceAtLeastValue": 0,
            "serviceDegradedThreshold": 0,
            "raiseEvents": true,
            "serviceSlaGoal": 99.0,
            "serviceWebImage": 0,
            "descriptiveAlias": "",
            "ownerId": "admin",
            "hasAdminPermission": true,
            "availableEyeServers": null,
            "users": [
                         {
                             "first": 3,
                             "second": "admin",
                          },
                          {
                             "first": 4,
                             "second": "user",
                           }
                     ],
            "aggregateEnable": false,
            "serviceTag": "Standard"
            "message": "ok"
          },
          "componentIds": [
                          ]
```



Service Detail

List, modify, add components to or delete a service.

URL: service/{serviceId}

- Method Summary
- GET Method detail
 - Response data keys
 - Example
- PUT Method detail
 - Request Parameters
 - Example
- POST Method detail
 - Request Parameters
 - Response Parameters
 - Example
- DELETE Method detail
 - Response
 - Example

Method Summary

- GET Method list details of a service.
- PUT Method modifies settings of the service.
- POST Method add or remove components to the service.
- DELETE Method deletes the service.

GET Method detail

List details of a service.

Response data keys

Name	Description	
serviceld	service ID of the service.	
serviceName	user-specified service name.	



	SOFTWARE
serviceType	type of service logic: O None 1 And 2 Or 3 Not 4 At Least
serviceAtLea stValue	if the service logic type (serviceType) is 4 At Least, the serviceAtLeastValue specifies the minimum number of components that should be OK for the service to be considered OK.
serviceDegra dedThreshold	if the service logic type (serviceType) is 4 At Least, the serviceDegradedThreshold value specifies the value at which the service will be considered to be degraded.
raiseEvents	whether the service will raise events upon state change, either true or false.
treatUnknow nAsDown	whether the service will treat Unknown statuses as Down, either true or false.
serviceSlaGo al	SLA availability goal in % (e.g. 99.0 = 99%)
serviceWebl mage	not used.
descriptiveAl ias	user-specified description of service.
ownerld	string ID of the user who owns the service.
hasAdminPer mission	if the service was created by an Admin user (meaning that the service has access to components that may be admin only), either true or false .
availableEye ServerId	list of external (remote) servers that the server accesses.
defaultEyeSe rverld	default server from list of external (remote) servers.
users	list of users that have access to this service. Consists of the username and their ID.
aggregateEn able	if traffic across all ports is aggregated.
serviceTag	service tags for reports. Can be: • "Standard" • "Branch" • "CIO"
message	"OK" if no error occurred, otherwise the error message will appear here.
_	

INPUT curl -u admin:admin htt	ps://localhost/api/service/819
-------------------------------	--------------------------------



```
OUTPUT | {
           "info": [
             "serviceId": 819,
             "serviceName": "test",
             "serviceType": 0,
             "serviceAtLeastValue": 0
             "serviceDegradedThreshold": 0,
             "raiseEvents": true,
             "treatUnknownAsDown": false,
             "serviceSlaGoal": 99.0,
             "serviceWebImage": 0,
             "descriptiveAlias": "",
             "ownerId": "admin",
             "hasAdminPermission": true,
             "availableEyeServers": null,
             "defaultEyeServerId": null,
             "users": [
                          "first": 3,
                          "second": "admin",
                        },
                          "first": 4,
                          "second": "user",
                      ],
             "aggregateEnable": false
             "serviceTag": "Standard"
             "message": "ok"
           },
         "componentIds": [
                             "serverId": "1758b1ea-2e6e-4bb2-82db-810a153293a2"
                             "objectId": "795"
                           }
                         ]
```



}

PUT Method detail

Modify the settings of the service. Note, to modify the components of a service, you will need to use the POST method below.

Request Parameters

```
INPUT
        curl -u admin:admin https://localhost/api/service/830 -X PUT -H "content-
        type:application/json" -d
          "serviceName": "test1"
        }
OUTPUT {
          "info": [
            "serviceId": 830,
            "serviceName": "test",
            "serviceType": 0,
            "serviceAtLeastValue": 0
            "serviceDegradedThreshold": 0,
            "raiseEvents": true,
            "treatUnknownAsDown": false,
            "serviceSlaGoal": 99.0,
            "serviceWebImage": 0,
            "descriptiveAlias": "",
            "ownerId": "admin",
            "hasAdminPermission": true,
            "availableEyeServers": null,
            "defaultEyeServerId": null,
            "users": [
                         "first": 3,
                         "second": "admin",
```



POST Method detail

Add or remove components to or from the service. You can retrieve device object keys by calling 'api/inventory'.

Request Parameters

Name	Description	
addList	a list of IDs for components to be added to the service.	
removeList	a list of IDS for components to be removed from the service.	

Response Parameters

Returns the modified service if valid, otherwise returns the error message.



```
INPUT
        curl -u admin:admin https://localhost/api/service/825 -X POST -H "content-
        type:application/json" -d
          "addList": [
                        {
                          "serverId": "1758b1ea-2ege-4bb2-82db-810a153293a2",
                          "id": 795
                        }
                      1
        }
OUTPUT {
          "info": [
            "serviceId": 825,
            "serviceName": "ok",
            "serviceType": 0,
            "serviceAtLeastValue": 0
            "serviceDegradedThreshold": 0,
            "raiseEvents": true,
            "treatUnknownAsDown": false,
            "serviceSlaGoal": 99.0,
            "serviceWebImage": 0,
            "descriptiveAlias": "",
            "ownerId": "admin",
            "hasAdminPermission": true,
            "availableEyeServers": null,
            "defaultEyeServerId": null,
            "users": [
                         "first": 3,
                         "second": "admin",
                       },
                         "first": 4,
                         "second": "user",
```



DELETE Method detail

Deletes the service.

Response

"OK" messaged displayed when successfully deleted.

```
INPUT      curl -u admin:admin https://localhost/api/service/830 -X DELETE

OUTPUT {
        "message": "ok"
      }
```



OS Services Summary

List all OS Service rules, create a new rule or delete all rules.

URL: osService

- Method Summary
- **GET Method detail**
 - Response data keys
 - Examples
- POST Method detail
 - Request Parameters
 - Response
 - Example
- **DELETE Method detail**
 - ResponseExample

Method Summary

- GET Method returns a list of all OS Services rules.
- POST Method creates a new OS Services rule within the list.
- DELETE Method deletes all OS Services rules.

GET Method detail

Returns a list of all OS Services rules.

Response data keys

Name	Description
id	ID number of the OS Service rule.
serviceName	the OS Service name that is being filtered for in the rule.
description	description of the OS Service, as entered by the user.
filterUsing	type of filter to apply to the service name, either: • 0: Equals • 1: Contains



operatingSystem	operating system of the rule:
	0: Windows1: Linux (currently inapplicable).
enabled	if the OS Service rule is currently enabled, either 'true' or 'false'.

INPUT	<pre>curl -u admin:admin https://localhost/api/osService? media=json</pre>	



```
OUTPUT
          "serviceRules": [
            "id": 1,
            "serviceName": "EOTS",
             "description": "Entuity",
            "filterUsing": 0,
            "operatingSystem": 0
            "enabled": true
          },
          {
            "id": 1,
            "serviceName": "wuauserv",
            "description": "Windows Update",
            "filterUsing": 0,
            "operatingSystem": 0
            "enabled": false
          },
          {
            "id": 1,
            "serviceName": "CiscoAMP",
             "description": "CiscoAMP. Version number follows name",
            "filterUsing": 1,
             "operatingSystem": 0
             "enabled": true
          }
        ]
        }
```

INPUT

curl -u admin:admin https://localhost/api/osService?media=xml



POST Method detail

Creates a new OS Services rule within the list.

Request Parameters

Name	Description
serviceName	the OS Service name that is being filtered for in the rule.
description	description of the OS Service, as entered by the user.
filterUsing	type of filter to apply to the service name, either: • 0: Equals • 1: Contains
operatingSystem	 operating system of the rule: 0: Windows 1: Linux (currently inapplicable).
enabled	if the OS Service rule is currently enabled, either 'true' or 'false'.

Response

Lists and details all OS Services on the server, including the OS Service that has just been created.



```
INPUT
curl -u admin:admin https://localhost/api/osService -X POST -H "content-
type:application/json" -d
{
    "serviceRules": [
    {
        "serviceName": "TestService3",
        "description": "test service 3",
        "filterUsing": 0,
        "operatingSystem": 0
        "enabled": true
    }
}
```



```
OUTPUT {
          "serviceRules" : [ {
            "id" : 1,
            "serviceName": "TestService",
            "description": "test service",
            "filterUsing": 0,
            "operatingSystem": 0,
            "enabled": true,
            "auditLogWriter" : 1
         }, {
            "id" : 2,
            "serviceName": "TestService2",
            "description": "test service 2",
            "filterUsing": 0,
            "operatingSystem": 1,
            "enabled": true,
            "auditLogWriter" : 1
         }, {
            "id" : 3,
            "serviceName": "TestService3",
            "description": "test service 3",
            "filterUsing": 1,
            "operatingSystem": 1,
            "enabled": true,
        "auditLogWriter" : 1
         } ]
```



DELETE Method detail

Deletes all OS Services rules.

Response

"Deleted {X} OS Service Rules" message if the device was removed successfully, an error message otherwise.

```
INPUT      curl -u admin:admin https://localhost/api/osService?media=json -X DELETE

OUTPUT      {
          "message": "Deleted 2 OS Service Rules"
          }
```





OS Services Detail

List, update or delete an OS Service rule.

URL: osService/{id}

- Method Summary
- GET Method detail
 - Request Parameters
 - Response data keys
 - Example
- PUT Method detail
 - Request Parameters
 - Response
 - Example
- DELETE Method detail
 - Request
 - Response
 - Example

Method Summary

- GET Method returns a single OS Service rule.
- PUT Method update this rule with the given OS Service rule.
- DELETE Method deletes the OS Service rule.

GET Method detail

Returns the specified OS Service rule.

Request Parameters

None.

Response data keys

Name	Description	
id	ID number of the OS Service rule.	
serviceName	the OS Service name that is being filtered for in the rule.	
description	description of the OS Service, as entered by the user.	



filterUsing	type of filter to apply to the service name, either: • 0: Equals • 1: Contains
operatingSystem	 operating system of the rule: 0: Windows 1: Linux (currently inapplicable).
enabled	if the OS Service rule is currently enabled, either 'true' or 'false'.

Example

```
INPUT
     curl -u admin:admin https://localhost/api
/osService/1?media=json

OUTPUT {
        "id": 1,
        "serviceName": "EOTS",
        "description": "Entuity",
        "filterUsing": 0,
        "operatingSystem": 0
        "enabled": true
    }
}
```

PUT Method detail

Updates the OS Service rule.

Request Parameters

Name	Description		
------	-------------	--	--



serviceName	the OS Service name that is being filtered for in the rule.
description	description of the OS Service, as entered by the user.
filterUsing	 type of filter to apply to the service name, either: 0: Equals 1: Contains
operatingSystem	 operating system of the rule: 0: Windows 1: Linux (currently inapplicable).
enabled	if the OS Service rule is currently enabled, either 'true' or 'false'.

Response

"OK" if OS Service rule updated.

```
INPUT
    curl -u admin:admin https://localhost/api/osService/1 -X PUT -H "content-
    type:application/json" -d
    {
        "serviceName": "TestService",
        "description": "test service",
        "filterUsing": 0,
        "operatingSystem": 0
        "enabled": true
    }

OUTPUT {
        "message": "OK"
    }
```

```
INPUT curl -u admin:admin https://localhost/api/osService/1?media=xml -X POST -
H "content-type:application/xml" -d \

'<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<ns2:osServiceRule description="test service" enabled="true" filterUsing="
0" id="1" operatingSystem="0" serviceName="TestService"/>'
```



```
OUTPUT <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
```

<ns2:osServiceRule description="test service" enabled="true" filterUsing="</pre> 0" id="1" operatingSystem="0" serviceName="TestService" xmlns:ns5="http://w ww.entuity.com/webrpc" xmlns:ns2="http://www.entuity.com/schemas/webUI" xmlns:ns4="http://www.entuity.com/schemas/eventengine" xmlns:ns3="http://ww w.entuity.com/schemas/flow"/>

DELETE Method detail

Deletes the OS Service rule.

Request

The ID of the rule that is to be deleted is sent as a part of a URL.

Response

"Deleted OS Service Rule with Id{id}" message if the device was removed successfully, an error message otherwise.

curl -u admin:admin https://localhost/api/osService/2?media=json -X DELETE
{
"message": "Deleted OS Service Rule with Id 2"
}

INPUT	curl -u admin:admin https://localhost/api/osService/2?media=xml -X DELETE
OUTPUT	<pre><?xml version="1.0" encoding="UTF-8" standalone="yes"?> <result message="Deleted OS Service Rule with Id 2" xmlns:ns2="http://www.entuity.com/schemas/webUI" xmlns:ns3="http://www.entuity.com/schemas/flow" xmlns:ns4="http://www.entuity.com/schemas/eventengine" xmlns:ns5="http://www .entuity.com/webrpc"></result></pre>



User Defined REST Pollers

List the current user defined REST pollers on the Entuity server, add new user defined REST pollers.

URL: ud/pollers

- Methods Summary
- GET Method details
 - Response
 - Example
- POST Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method lists the current user defined REST pollers on the Entuity server.
- POST Method create a new user defined REST poller.

GET Method details

Lists the user defined REST pollers on the Entuity server.

Response

Response includes a list of the user defined REST pollers on the Entuity server.

Example

INPUT curl -u admin:admin https://localhost/api/ud/pollers



```
OUTPUT | {
           "items" : [ {
             "pollerId" : 1,
             "pollerType" : "API",
             "pollerName" : "AssocComp",
             "creationTime" : 1638371491,
             "createdBy" : "admin",
             "lastModified" : 1638371491,
             "modifiedBy" : "admin",
             "version" : 1.0,
             "revision" : 5,
             "priority" : 2002.0,
             "serverId" : null,
             "errorCount" : 0,
             "enabled" : false,
             "contextTypeName" : "PingOnlyDevice",
             "extendedTypeName" : null,
             "componentTypeName" : "udp_serviceInfo",
             "description" : "",
             "stepCount" : 1,
             "stepNames" : "AttrPolling",
             "serverIds" : null,
             "missingServerIds" : null
           } ],
           "count" : 1
         }
```

POST Method details

Creates a new user defined poller.

Request

User defined poller parameters

Name	Description
------	-------------



pollerType	type of poller. Currently only "API" is supported, but "SNMP" may be supported in future versions.
pollerCollectorTy pe	sub-type of poller. Currently only "ASSOCIATED_COMPONENT" is supported.
pollerName	unique poller name, without spaces. Alpha numeric characters and underscores are allowed but other characters are invalid. Should start with udp_ and this will be added if missing.
contextTypeName	StormWorks type name of the type of object this poller will connect to. This will be a device or associated device type such as "DeviceEx", "PingOnlyDevice" or "MerakiDevice"
componentTypeD etails	specifies details of the component type of object(s) that will be created by the poller. For ASSOCIATED_COMPONENT pollers (the only ones currently supported) the typeName field should be the same as the pollerName, and a typeDisplayName field should also be supplied to specify the display name for the single associated object.
priority	optional number determining collector priority. Can be omitted.
filterDefinition	determines which of the applicable objects the poller will actually be applied to. Can be omitted or left null to apply to all of them.
steps	list of the poller steps within this poller.
steps/authDetails	authentication method for this poller step.
steps/authDetails /authType	authentication type. One of "AUTH_NONE", "AUTH_FIXED_CREDENTIALS" or "AUTH_DEVICE_CREDENTIALS"
steps/authDetails /credential	only needed it authType is AUTH_FIXED_CREDENTIALS
steps/authDetails /credential/id	ID of the credential set to be used
steps/authDetails /credential/name	name of the credential set to be used
steps/stepName	name of the step. Must be unique within the poller and consists only of alphanumeric characters and underscores.
steps /endpointURLSa mple	example URL entered in the UI. Can be omitted or left blank for Rest API calls.
steps/host	host to connect to. Use "\${host}" to automatically use the host of the device the poller is running under, or a fixed string to always connect to the same host.
steps/apiPath	path part of the Rest API URL, including any query part and any interpolated values of the form \${placeholder}.
steps /methodType	HTTP request method, either "GET" or "POST".
steps/port	port number to connect to. Can be omitted for the default HTTP or HTTPS ports 80 / 443 based on the useSSL value.



steps/useSSL	either "true" or "false" depending on whether the request should be made using HTTPS or HTTP.
steps/pathToData	optional starting point for all attribute source paths in this step. Can be omitted or left blank if the full path is specified in each attribute's sourcePath.
steps /attributeMappings	information on the attributes added by this step.
steps /attributeMapping s /nameToMapping	map from attribute name to attribute definition. The key for each entry should be unique and match the value of the swAttrName in the value part. Attribute names must start with udp_ and this will be added automatically if omitted.
steps /attributeMapping s /nameToMapping /sourcePath	path to the data for this attribute within the JSON or XML returned by the API request. This can be simply the name of a property in the JSON or a more complex expression.
steps /attributeMapping s /nameToMapping /swAttrName	attribute name that will be used in the StormWorks data model. Must begin with udp_ and only contain alpha numeric characters and underscores.
steps /attributeMapping s /nameToMapping /swAttrDisplayNa me	display name used for this attribute in the UI (dashboards, reports etc.)
steps /attributeMapping s /nameToMapping /dataType	data type to store the attribute value as. Valid values include "string", "float", "integer". If omitted will default to "string".
steps /attributeMapping s /nameToMapping /displayType	optional. How the value will be displayed in the UI. A displayType can allow the data to be shown including e.g. appropriate units and formatting
steps /attributeMapping s /nameToMapping /visibility	optional. Visibility level for this attribute. Can be one of "SHORTLISTED", "VISIBLE", "ADVANCED" or "HIDDEN".
steps /attributeMapping s /nameToMapping /enumerable	optional. If true this attribute will be considered to have a limited enumeration of values. This makes it eligible for example for being used as the data to drive the groupings of a generic pie chart.



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steps /attributeMapping s /nameToMapping /graphable	optional. If true this attribute will be considered a valid choice for display on a chart, if false it will not. If omitted then a default will be determined based upon the data type (numeric values are graphable, strings are not)
steps /attributeMapping s /nameToMapping /searchable	optional. If true this attribute will be searchable using the search tool
steps /attributeMapping s /nameToMapping /statusMap	optional. A mapping of value on to status category which is only relevant for attributes that are used as the status of the object they are on
steps /attributeMapping s /nameToMapping /range	optional. Defines the minimum and maximum values this attribute can take.
steps /attributeMapping s /nameToMapping /transform	optional. Provides a mapping from raw value (as extracted from the data) to displayed value. Useful for e.g. numeric data representing a set of possible states (set enumerable to true in this case also)
steps /attributeMapping s /nameToMapping /transform/name	name of transform
steps /attributeMapping s /nameToMapping /transform /displayName	display name of transform, used in the UI.
steps /attributeMapping s /nameToMapping /transform /inputType	input data type, e.g. int32, string, etc.
steps /attributeMapping s /nameToMapping /transform /outputType	output data type, usually string



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steps /attributeMapping s /nameToMapping /transform /mapping	map of input values to output values
steps /attributeMapping s /nameToMapping /eventInfo	optional. Information on what if any events to raise when this attribute's value changes
steps /attributeMapping s /nameToMapping /eventInfo /eventMode	either "NONE", "THRESHOLD" or "STATUS"
steps /attributeMapping s /nameToMapping /eventInfo /mapping	map of values to event severity
steps /attributeMapping s /nameToMapping /eventThresholds	optional. List of thresholds for events on this attribute.
steps /attributeMapping s /nameToMapping /eventThresholds /name	threshold name. Must be unique.
steps /attributeMapping s /nameToMapping /eventThresholds /displayName	threshold display name
steps /attributeMapping s /nameToMapping /eventThresholds /description	optional description of this threshold



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steps /attributeMapping s /nameToMapping /eventThresholds /groupName	group this threshold belongs to
steps /attributeMapping s /nameToMapping /eventThresholds /displayUnits	units for the threshold value. Can be blank if no units apply.
steps /attributeMapping s /nameToMapping /eventThresholds /minValue	minimum value this threshold can have
steps /attributeMapping s /nameToMapping /eventThresholds /maxValue	Maximum value this threshold can have
steps /attributeMapping s /nameToMapping /eventThresholds /defaultValue	default value for this threshold
steps /attributeMapping s /nameToMapping /eventThresholds /enabled	flag for whether this threshold is enabled
steps /attributeMapping s /nameToMapping /eventThresholds /userDefined	flag for whether this threshold is user defined

Response

The newly created user defined poller, as detailed GET method would return it.

Examples

Example 1: Adding attributes to an existing device



```
curl -u -k admin:admin https://localhost/api/ud/pollers?pollerType=API -X
INPUT
       POST -H "content-type:application/json" -d '
          "pollerType": "API",
          "pollerCollectorType": "ASSOCIATED_COMPONENT",
          "pollerName": "AssocComp",
          "contextTypeName": "PingOnlyDevice",
          "componentTypeDetails" : {
            "typeName" : "udp_AssocComp",
           "typeDisplayName" : "Service Info"
          },
          "priority": 2002,
          "filterDefinition": null,
          "steps": [
              "authDetails": {
                "authType": "AUTH_DEVICE_CREDENTIALS"
             },
              "stepName": "AttrPolling",
              "endpointURLSample": "localhost/api/service/1004?media=json",
              "host": "${host}",
              "apiPath": "/api/service/1004?media=json",
              "methodType": "GET",
              "port": null,
              "useSSL": "false",
              "pathToData": "info",
              "attributeMappings": {
                "nameToMapping": {
                  "udp_serviceName": {
                    "sourcePath": "serviceName",
                    "swAttrName": "udp_serviceName",
                    "swAttrDisplayName": "Service Name",
                    "dataType": "string"
                   }
                 }
              }
            }
```



Example 2: Adding attributes from a public API to a custom device

```
curl -u admin:admin -X POST -k "localhost/api/ud/pollers?
INPUT
       pollerType=API&mode=BUILD_ALL_FORCE_OVERWRITE" -H "content-type:
       application/json" -d '
          "pollerType": "API",
          "pollerCollectorType": "ASSOCIATED_COMPONENT",
          "pollerName": "CovidGlobal",
          "contextTypeName": "UserCreatedNode",
          "componentTypeDetails": {
            "typeName": "udp_CovidGlobal",
            "typeDisplayName": "Covid Global Rates",
            "description": "",
            "visibility": "VISIBLE"
          },
          "filterDefinition": {
            "filterType": "FILTER_ATTRIBUTE_EQUALS_ANY",
            "attrDef": "name",
            "attrValue": {
              "array": [
                "CovidData"
              ]
            }
          "obtainRate": 86400,
          "keepTime": 604800,
          "steps": [
              "pollerStepType": "POLLING",
              "stepName": "Step 1",
              "authDetails": {
```



```
"authType": "AUTH_NONE"
},
"endpointURLSample": "https://coronavirus.m.pipedream.net",
"host": "coronavirus.m.pipedream.net",
"apiPath": "/",
"methodType": "GET",
"port": "",
"useSSL": true,
"attributeMappings": {
  "nameToMapping": {
    "udp_CovidGlobal_confirmed": {
      "swAttrName": "udp_CovidGlobal_confirmed",
      "swAttrDisplayName": "Global Confirmed Cases",
      "dataType": "uint32",
      "displayType": "string",
      "visibility": "SHORTLISTED",
      "enumerable": false,
      "searchable": false,
      "statusMap": {},
      "eventInfo": {
        "eventMode": "NONE",
        "mapping": null
      },
      "sourcePath": "summaryStats.global.confirmed"
    },
    "udp_CovidGlobal_deaths": {
      "swAttrName": "udp_CovidGlobal_deaths",
      "swAttrDisplayName": "Global Covid Deaths",
      "dataType": "uint32",
      "displayType": "string",
      "visibility": "SHORTLISTED",
      "enumerable": false,
      "searchable": false,
      "statusMap": {},
      "eventInfo": {
        "eventMode": "NONE",
```



Example 3: Adding sub components to a custom device

```
INPUT
       curl -u admin:admin -X POST -k "localhost/api/ud/pollers?
       pollerType=API&mode=BUILD_ALL_FORCE_OVERWRITE" -H "content-type:
       application/json" -d '
          "pollerType": "API",
          "pollerCollectorType": "SUBCOMPONENTS",
          "pollerName": "CovidByCountry",
          "contextTypeName": "UserCreatedNode",
          "componentTypeDetails": {
            "typeName": "udp_CovidByCountry",
            "typeDisplayName": "Covid By Country",
            "description": "",
            "visibility": "VISIBLE"
          },
          "filterDefinition": {
            "filterType": "FILTER_ATTRIBUTE_EQUALS_ANY",
            "attrDef": "name",
            "attrValue": {
              "array": [
                "CovidData"
              1
            }
          },
```



```
"obtainRate": 86400,
"keepTime": 604800,
"steps": [
    "pollerStepType": "DISCOVERY",
    "stepName": "Step 1",
    "authDetails": {
     "authType": "AUTH_NONE"
   },
    "endpointURLSample": "https://coronavirus.m.pipedream.net/",
    "host": "coronavirus.m.pipedream.net",
    "apiPath": "/",
    "methodType": "GET",
    "port": "",
    "useSSL": true,
    "pathToData": "rawData",
    "componentTypeDetails": {
      "typeName": "udp_CountryCovidStats",
      "typeDisplayName": "Country Covid Stats",
      "description": "",
      "visibility": "VISIBLE"
   },
    "attributeMappings": {
      "uniqueKeySourcePath": "Combined_Key",
      "componentNameSourcePath": "Country_Region"
   }
 },
    "pollerStepType": "POLLING",
    "stepName": "Step 2",
    "authDetails": {
      "authType": "AUTH_NONE"
    },
    "endpointURLSample": "https://coronavirus.m.pipedream.net/",
    "host": coronavirus.m.pipedream.net",
    "apiPath": "/",
```



```
"methodType": "GET",
"port": "",
"useSSL": true,
"isDataForAllChildren": true,
"pathToData": "rawData",
"parentPath": "udp_CountryCovidStats",
"componentTypeDetails": {
  "typeName": "udp_CountryCovidStats"
},
"attributeMappings": {
  "nameToMapping": {
    "udp_CovidByCountry_Confirmed": {
      "swAttrName": "udp_CovidByCountry_Confirmed",
      "swAttrDisplayName": "Confirmed Cases",
      "dataType": "uint32",
      "displayType": "string",
      "visibility": "SHORTLISTED",
      "enumerable": false,
      "searchable": false,
      "statusMap": {},
      "eventInfo": {
        "eventMode": "NONE",
        "mapping": null
      },
      "sourcePath": "rawData[1].Confirmed"
    },
    "udp_CovidByCountry_Deaths": {
      "swAttrName": "udp_CovidByCountry_Deaths",
      "swAttrDisplayName": "Covid Deaths",
      "dataType": "uint32",
      "displayType": "string",
      "visibility": "SHORTLISTED",
      "enumerable": false,
      "searchable": false,
      "statusMap": {},
      "eventInfo": {
```



Example 4: Adding basic support for vCenter VM monitoring

```
curl -u admin:admin -X POST -k "localhost/api/ud/pollers?
INPUT
       pollerType=API&mode=BUILD_ALL_FORCE_OVERWRITE" -H "content-type:
       application/json" -d '
       {
          "pollerType" : "API",
          "pollerCollectorType" : "SUBCOMPONENTS",
          "pollerName" : "vCenterExtras",
          "contextTypeName" : "VirtualizationPlatformDevice",
          "componentTypeDetails" : {
            "typeName" : "udp_vCenterExtras",
            "typeDisplayName" : "vCenter Extras",
           "description" : "",
            "visibility" : "VISIBLE"
         },
          "filterDefinition" : {
            "filterType" : "FILTER_ATTRIBUTE_NOT_EQUALS",
            "attrDef" : "name",
            "attrValue" : "",
            "inverted" : false,
           "additionalORedFilters" : [ ]
         },
```



```
"obtainRate" : 300,
  "keepTime" : 604800,
  "steps" : [ {
    "pollerStepType" : "SETUP",
    "stepName" : "Auth",
    "authDetails" : {
      "authType" : "AUTH_DEVICE_CREDENTIALS",
      "credential" : {
        "id" : 3,
        "deviceId" : 0,
        "kind" : "SHARED"
      }
    },
    "endpointURLSample" : "https://vcsa-lon-01.entuity.local/rest/com
/vmware/cis/session",
    "host" : "",
    "apiPath" : "/rest/com/vmware/cis/session",
    "methodType" : "POST",
    "port" : "",
    "useSSL" : true,
    "mediaType" : "json",
    "attributeMappings" : { },
    "body" : "",
    "variables" : [ {
      "name" : "sessionApiKey",
      "sourcePath" : "value"
   } ]
 }, {
    "pollerStepType" : "DISCOVERY",
    "stepName" : "Discovery1",
    "authDetails" : {
      "authType" : "AUTH_NONE"
    },
    "endpointURLSample" : "https://vcsa-lon-01.entuity.local/rest/vcenter
/vm",
    "host" : "",
    "apiPath" : "/rest/vcenter/vm",
```



```
"methodType" : "GET",
    "port" : "",
    "useSSL" : true,
    "pathToData" : "value",
    "componentTypeDetails" : {
      "typeName" : "udp_vCenterVM",
      "typeDisplayName" : "vCenter VM",
      "description" : "",
      "visibility" : "VISIBLE"
   },
    "attributeMappings" : {
      "uniqueKeySourcePath" : "vm",
      "componentNameSourcePath" : "name"
   },
   "headers": [ {
      "name" : "vmware-api-session-id",
      "value" : "${vars::sessionApiKey}"
   } ]
 }, {
    "pollerStepType" : "POLLING",
    "stepName" : "Polling1",
    "authDetails" : {
      "authType" : "AUTH_NONE"
   },
    "endpointURLSample" : "https://vcsa-lon-01.entuity.local/rest/vcenter
/vm/vm-100",
    "host" : "",
    "apiPath" : "/rest/vcenter/vm/${ctx::id}",
    "methodType" : "GET",
    "port" : "",
    "useSSL" : true,
    "isDataForAllChildren" : false,
    "parentPath" : "udp_vCenterVM",
    "componentTypeDetails" : {
      "typeName" : "udp_vCenterVM"
   },
    "attributeMappings" : {
```



```
"nameToMapping" : {
        "udp_vCenterExtras_guest_OS" : {
          "swAttrName" : "udp_vCenterExtras_guest_OS",
          "swAttrDisplayName" : "Guest Os",
          "dataType" : "string",
          "displayType" : "string",
          "visibility" : "SHORTLISTED",
          "enumerable" : false,
          "searchable" : false,
          "statusMap" : { },
          "eventInfo" : {
            "eventMode" : "NONE",
            "mapping" : null
          },
          "sourcePath" : "value.guest_OS"
        },
        "udp_vCenterExtras_power_state" : {
          "swAttrName" : "udp_vCenterExtras_power_state",
          "swAttrDisplayName" : "Power State",
          "dataType" : "string",
          "displayType" : "string",
          "visibility" : "SHORTLISTED",
          "enumerable" : false,
          "searchable" : false,
          "statusMap" : { },
          "eventInfo" : {
            "eventMode" : "NONE" ,
            "mapping" : null
},
          "sourcePath" : "value.power_state"
}
      },
      "uniqueKeySourcePath" : "vm"
    },
    "headers" : [ {
      "name" : "vmware-api-session-id",
```



```
"value" : "${vars::sessionApiKey}"
   } ]
 }, {
    "pollerStepType" : "DISCOVERY",
    "stepName" : "Discovery2",
    "authDetails" : {
      "authType" : "AUTH_NONE"
    },
    "endpointURLSample" : "https://vcsa-lon-01.entuity.local/rest/vcenter
/vm/vm-100",
    "host" : "",
    "apiPath" : "/rest/vcenter/vm/${ctx::id}",
    "methodType" : "GET",
    "port" : "",
    "useSSL" : true,
    "pathToData" : "value.disks",
    "parentPath" : "udp_vCenterVM",
    "componentTypeDetails" : {
      "typeName" : "udp_vCenterDisk",
      "typeDisplayName": "vCenter Disk",
      "description" : "",
      "visibility" : "VISIBLE"
   },
    "attributeMappings" : {
      "uniqueKeySourcePath" : "key",
      "componentNameSourcePath" : "value.label"
   },
    "headers" : [ {
      "name" : "vmware-api-session-id",
      "value" : "${vars::sessionApiKey}"
   } ]
 }, {
    "pollerStepType" : "POLLING",
    "stepName" : "Polling2",
    "authDetails" : {
      "authType" : "AUTH_NONE"
    },
```



```
"endpointURLSample" : "https://vcsa-lon-01.entuity.local/rest/vcenter
/vm/vm-100",
"host" : "",
    "apiPath" : "/rest/vcenter/vm/${ctx::id}",
    "methodType" : "GET",
"port" : "",
    "useSSL" : true,
    "isDataForAllChildren" : true,
    "pathToData" : "value.disks",
    "parentPath" : "udp_vCenterVM/udp_vCenterDisk",
    "componentTypeDetails" : {
      "typeName" : "udp_vCenterDisk"
    "attributeMappings" : {
      "nameToMapping" : {
        "udp_vCenterExtras_capacity" : {
          "swAttrName" : "udp_vCenterExtras_capacity",
          "swAttrDisplayName" : "Capacity",
          "dataType" : "int64",
          "displayType" : "string",
          "visibility" : "SHORTLISTED",
          "enumerable" : false,
          "searchable" : false,
          "statusMap" : { },
          "eventInfo" : {
            "eventMode" : "NONE",
            "mapping" : null
          },
         "sourcePath" : "value.capacity"
        },
        "udp_vCenterExtras_type" : {
          "swAttrName" : "udp_vCenterExtras_type",
          "swAttrDisplayName" : "Type",
          "dataType" : "string",
          "displayType" : "string",
          "visibility" : "SHORTLISTED",
          "enumerable" : false,
```



```
"searchable" : false,
                  "statusMap" : { },
                  "eventInfo" : {
                    "eventMode" : "NONE",
                    "mapping" : null
                  },
                  "sourcePath" : "value.type"
                }
              },
              "uniqueKeySourcePath" : "key"
              },
              "headers" : [ {
                "name" : "vmware-api-session-id",
                "value" : "${vars::sessionApiKey}"
              } ]
            } ]
          }'
OUTPUT List of error information. List will be empty if all went well.
```





User Defined REST Poller Details

List details of, modify or delete a specified user defined REST poller.

URL: ud/pollers/[id]

- Methods Summary
- GET Method details
 - Response
 - Examples
- PUT Method details
 - Request
 - Response
 - Examples
- DELETE Method details
 - Request
 - Response
 - Examples

Methods Summary

- GET Method list details of a specified user defined REST poller.
- PUT Method modify an existing user defined REST poller.
- DELETE Method delete a user defined REST poller

GET Method details

Lists details about the specified user defined REST poller.

Name	Description
pollerId	unique ID of this poller on this specific Entuity server.
pollerType	type of poller. Currently only "API" is supported, but "SNMP" may be supported in future versions.
pollerName	unique poller name, without spaces. Alpha numeric characters and underscores are allowed but other characters are invalid. Should start with udp_ and this will be added if missing.
creationTime	unix timestamp for when this poller was first created.
createdBy	name of Entuity user that created this poller.
lastModified	unix timestamp for when this poller was last modified.



version	version number.
revision	revision number. This is incremented each time the user edits this poller.
priority	number determining collector priority.
serverId	this field is currently redundant and will always be null.
errorCount	number of errors while creating this poller. Should be zero or null for a successful poller.
pollerDef	details of this poller's definition.
pollerType	type of poller. Currently only "API" is supported, but "SNMP" may be supported in future versions.
pollerCollector Type	sub-type of poller. Currently only "ASSOCIATED_COMPONENT" is supported.
pollerId	ID of the poller.
version	version number.
revision	revision number. This is incremented each time the user edits this poller.
priority	optional number determining collector priority. Can be omitted.
contextTypeNa me	StormWorks type name of the type of object this poller will connect to. This will be a device or associated device type such as "DeviceEx", "PingOnlyDevice" or "MerakiDevice".
componentTyp eDetails	specifies details of the component type of object(s) that will be created by the poller. For ASSOCIATED_COMPONENT pollers (the only ones currently supported) the typeName field should be the same as the pollerName, and a typeDisplayName field should also be supplied to specify the display name for the single associated object.
componentTyp eDetails /typeName	unique StormWorks type name for the component type.
componentTyp eDetails /typeDisplayNa me	display name that will be given to the associated object of the device. It can have spaces in the name. It does not need to be unique but it is best if it is.
description	description of the association.
visibility	optional. Visibility level for this attribute. Can be one of "SHORTLISTED", "VISIBLE", "ADVANCED" or "HIDDEN".
displayNameAt tr	display name used for this attribute in the UI (dashboards, reports etc).
setAsParentsC hildren	flag to indicate that the objects created by this poller should count as the children of the context object in e.g. the Explorer tree. It is only available if the context type is a user defined one, so is currently redundant.
obtainRate	frequency (in seconds) that the data will be polled at. Usually restricted to the following values: 60, 300, 600, 900, 1200, 1800, 3600, 21600, 43200, 86400



keepTime	length of time (in seconds) which polled data will be retained. Usually restricted to the following values: 3600, 86400, 604800, 1209600, 3024000, 16934400
steps	list of the poller steps within this poller.
stepName	name of the step. Must be unique within the poller and consists only of alphanumeric characters and underscores.
authDetails	authentication method for this poller step.
authType	authentication type. One of "AUTH_NONE", "AUTH_FIXED_CREDENTIALS" or "AUTH_DEVICE_CREDENTIALS"
endpointURL	example URL entered in the UI. Can be omitted or left blank for REST API calls.
host	host to connect to. Use "\${host}" to automatically use the host of the device the poller is running under, or a fixed string to always connect to the same host.
apiPath	path part of the Rest API URL, including any query part and any interpolated values of the form \${ placeholder}.
methodType	HTTP request method, either "GET" or "POST".
port	port number to connect to. Can be omitted for the default HTTP or HTTPS ports 80 / 443 based on the useSSL value.
steps/useSSL	either "true" or "false" depending on whether the request should be made using HTTPS or HTTP.
steps /pathToData	optional starting point for all attribute source paths in this step. Can be omitted or left blank if the full path is specified in each attribute's sourcePath.
steps /attributeMappi ngs	information on the attributes added by this step.
steps /attributeMappi ngs /nameToMappi ng	a map from attribute name to attribute definition. The key for each entry should be unique and match the value of the swAttrName in the value part. Attribute names must start with udp_ and this will be added automatically if omitted.
steps /attributeMappi ngs /nameToMappi ng/swAttrName	unique StormWorks attribute name for this attribute. Should be prepended with udp_ and the poller name so that it only needs to be unique within this poller
steps /attributeMappi ngs /nameToMappi ng /swAttrDisplay Name	display name for this attribute. Does not need to be unique but usually best if it is.



	SOFTWARE
steps /attributeMappi ngs /nameToMappi ng/dataType	data type to store the attribute value as. Valid values include "string", "float", "integer". If omitted will default to "string".
steps /attributeMappi ngs /nameToMappi ng/displayType	optional. How the value will be displayed in the UI. A displayType can allow the data to be shown including e.g. appropriate units and formatting.
steps /attributeMappi ngs /nameToMappi ng/visibility	optional. Visibility level for this attribute. Can be one of "SHORTLISTED", "VISIBLE", "ADVANCED" or "HIDDEN".
steps /attributeMappi ngs /nameToMappi ng/graphable	optional. If true this attribute will be considered a valid choice for display on a chart, if false it will not. If omitted then a default will be determined based upon the data type (numeric values are graphable, strings are not).
steps /attributeMappi ngs /nameToMappi ng/enumerable	optional. If true this attribute will be considered to have a limited enumeration of values. This makes it eligible for example for being used as the data to drive the groupings of a generic pie chart.
steps /attributeMappi ngs /nameToMappi ng/searchable	optional. If true this attribute will be searchable using the search tool.
steps /attributeMappi ngs /nameToMappi ng/statusMap	optional. A mapping of value on to status category which is only relevant for attributes that are used as the status of the object they are on.
steps /attributeMappi ngs /nameToMappin g/sourcePath	path to the data for this attribute within the JSON or XML returned by the API request. This can be simply the name of a property in the JSON or a more complex expression.
steps /attributeMappi ngs /nameToMappi ng/eventInfo	optional. Information on what if any events to raise when this attribute's value changes.



steps /attributeMappi ngs /nameToMappi ng/eventInfo /eventMode	either "NONE", "THRESHOLD" or "STATUS"
steps /attributeMappi ngs /nameToMappi ng/eventInfo /mapping	map of values to event severity.

```
INPUT
         curl -u admin:admin https://localhost/api/ud/pollers/1
OUTPUT | {
           "pollerId" : 1,
           "pollerType" : "API",
           "pollerName" : "AssocComp",
           "creationTime" : 1638371491,
           "createdBy" : "admin",
           "lastModified" : 1638371491
           "modifiedBy" : "admin",
           "version" : 1.0,
           "revision" : 1,
           "priority" : 2002.0,
           "serverId" : "400e61cf-873d-4504-8784-f9075a9a5150",
           "errorCount" : 0,
           "pollerDef" : {
             "pollerType" : "API"
             "pollerCollectorType" : "ASSOCIATED_COMPONENT",
             "pollerId" : 1,
             "pollerName" : "AssocComp",
             "version" : 1.0,
             "revision" : 1,
             "priority" : 2002.0,
             "contextTypeName" : "PingOnlyDevice",
             "componentTypeDetails" : {
               "typeName" : "udp_serviceInfo",
```



```
"typeDisplayName" : "Service Info",
      "keyAttribute" : "uDCIndexUserDefined",
      "setAsParentsChildren" : false
    },
    "steps" : [ {
      "stepName" : "AttrPolling",
      "authDetails" : {
        "authType" : "AUTH_DEVICE_CREDENTIALS"
      },
      "endpointURLSample" : "localhost/api/service/1004?media=json",
      "host" : "${host}",
      "apiPath" : "/api/service/1004?media=json",
      "methodType" : "GET",
      "useSSL" : false,
      "pathToData" : "info",
      "attributeMappings" : {
        "nameToMapping" : {
          "udp_serviceName" : {
            "swAttrName" : "udp_serviceName",
            "swAttrDisplayName" : "Service Name",
            "dataType" : "string",
            "sourcePath" : "serviceName"
          }
   } ]
 }
}
```

PUT Method details

Modifies the parameters of the specified user defined REST poller.

Request



Request has the same structure as the POST request for adding a new user defined REST poller. You need to specify only properties you want to be changed.

Response

On success returns the poller definition for the newly updated poller.

```
INPUT
        curl -u -k admin:admin https://localhost/api/ud/pollers/1 -X PUT -H
        "content-type:application/json" -d '
          "pollerName": "ServiceInfoOnPingDevice"
OUTPUT {
          "pollerId" : 1,
          "pollerType" : "API",
          "pollerName" : "ServiceInfoOnPingDevice",
          "creationTime" : 1638461440,
          "createdBy" : "admin",
          "lastModified" : 1638461705,
          "modifiedBy" : "admin",
          "version" : 1.0,
          "revision" : 2,
          "priority" : 2000.0,
          "serverId" : "400e61cf-873d-4504-8784-f9075a9a5150",
          "errorCount" : 0,
          "pollerDef" : {
          "pollerType" : "API",
            "pollerCollectorType" : "ASSOCIATED_COMPONENT",
        "pollerId" : 1,
        "pollerName" : "ServiceInfoOnPingDevice",
        "version" : 1.0,
        "revision" : 2,
        "priority" : 2000.0,
        "contextTypeName" : "PingOnlyDevice",
        "componentTypeDetails" : {
        "typeName" : "udp_serviceInfo",
        "typeDisplayName" : "Service Info",
        "keyAttribute" : "uDCIndexUserDefined",
```



```
"setAsParentsChildren" : false
},
"steps" : [ {
"stepName" : "AttrPolling",
"authDetails" : {
"authType" : "AUTH_DEVICE_CREDENTIALS"
},
"endpointURLSample" : "localhost/api/service/1004?media=json",
"host" : "${host}",
"apiPath" : "/api/service/1004?media=json",
"methodType" : "GET",
"useSSL" : false,
"pathToData" : "info",
"attributeMappings" : {
"nameToMapping" : {
  "udp_serviceName" : {
"swAttrName" : "udp_serviceName",
"swAttrDisplayName" : "Service Name",
"dataType" : "string",
"sourcePath" : "serviceName"
}
} ]
}
```

DELETE Method details

Deletes the selected user defined poller.

Request

No additional parameters needed.

Response

Returns a list of error information. This will be empty, i.e. just [] in the case of success.



INPUT	curl -u admin:admin https://localhost/api/ud/pollers/1 -X DELETE
OUTPUT	[]



Testing User Defined REST Pollers

Test a user defined REST poller.

URL: ud/test

Methods Summary

• POST Method - tests a user defined REST poller.

POST Method details

Tests a user defined REST poller.

Request

Name	Description
url	URL for the REST API to connect to.
metho dType	HTTP method, usually "GET" or "POST".
creden tial	Credential information required for authentication.
media Type	Specifies the media type being sent in a POST request, usually "json".
timeou tSecs	Optionally overrides the default amount of time the engine will wait before timing out the request (which is 30 seconds)
body	Defines the body text to be sent. Only required for POST requests.
headers	List of headers to be sent and their values.
variabl es	List of variables to be sent and their values.
prereq uisiteS teps	List of prerequisite poller steps to be evaluated before this test can be executed. Each of this defines a complete poller step from a poller. Typically these would establish authentication and/or set the value of one or more variables that will be used during this test.



	Q Q SOLUTION
Name	Description
returnCode	Code returned by the Entuity collection engine. One of "OK", "WARN" or "ERROR".
errorCode	Error code from the collection engine. May contain useful error information in the event of internal errors.
requestId	Internal ID used for this request by the collection engine.
type	Additional information from the collection engine.
timeStamp	Timestamp that the response was created,
lapsedTime Ms	Lapsed time in milliseconds processing the API request.
messages	List of error messages.
httpCode	HTTP code returned from the REST API endpoint.
httpErrorMe ssage	Empty string if HTTP request was a success, or an error string if an error occurred.
httpBody	Body of the HTTP response if successful. This will usually be a JSON or XML string, but in some cases APIs return HTML or other data.
httpHeaders	List of HTTP headers in the response, as name-value pairs.
httpCookies	List of HTTP cookies returned in the response. This have a name, a value and a list of properties.
variables	List of variables available to subsequent poller steps. This can be null, or a list of name-value pairs.



```
OUTPUT {
         "returnCode" : "OK",
         "errorCode" : null,
         "requestId" : "DISC_1",
         "type" : null,
         "timeStamp" : 1638462971764,
         "lapsedTimeMs" : 109,
         "messages" : [ ],
         "httpCode" : 200,
         "httpErrorMessage" : "",
         "httpBody" : "{\r\n \"info\" : {\r\n \"serviceId\" : 1644,\r\n \"
       serviceName\" : \"Stuff\",\r\n \"serviceType\" : 1,\r\n \"serv
       iceAtLeastValue\" : 0,\r\n \"serviceDegradedThreshold\" : 0,\r\n
raiseEvents\" : true,\r\n \"treatUnknownAsDown\" : false,\r\n \
"serviceSlaGoal\" : 0.0,\r\n \"serviceWebImage\" : 0,\r\n \"
descriptiveAlias\" : \"\",\r\n \"ownerId\" : \"kim1\",\r\n \"
       hasAdminP
       8784-f9075a9a5150\",\r\n \ \ \"objectId\" : 869\r\n \ \] \] \r\n \",
       "httpHeaders" : null
       }
```



Custom Webhook Groups

List and create custom webhook groups

URL: http(s)://{server hostname}/api/webhooks/groups

- Methods Summary
- GET Method details
 - Response
 - Example
- POST Method details
 - Request Parameters
 - Response data
 - Examples

Methods Summary

- GET Method list custom webhook groups
- POST Method create a custom webhook group

GET Method details

Returns a list of custom webhook groups.

Name	Description
groupID	ID of the group.
groupName	group name.
authType	type of authentication, choose from:
	1 = basic
	3 = API Key Header
	4 = API Key Body
	5 = API Key Query
authKey	name of the authentication key. This field is not applicable if the Basic authentication type is selected.



endpointCou nt	number of webhook endpoints assigned to this webhook group.
ruleCount	number of webhook rules associated with this webhook group.
count	total number of webhook groups on this server.

```
curl -v -u -k admin:admin https://localhost/api/webhooks/groups?
INPUT
        media=json -H "content-type:application/json"
OUTPUT
        {
         "items" : [
             "groupID" : 23,
             "groupName" : "Junipermist",
             "authMethod" : {
               "authType" : 1,
               "authKey" : "not used"
             },
             "endpointCount" : 0,
             "ruleCount" : 0
           },
             "groupID" : 24,
             "groupName" : "Anewgroup",
             "authMethod" : {
               "authType" : 1,
               "authKey" : "not used"
             },
             "endpointCount" : 0,
             "ruleCount" : 0
          },
         ],
         "count" : 2
```



POST Method details

Create a new custom webhook group.

Request Parameters

Name	Description
group name	name of the webhook group. Entuity recommends that the name reflects the devices in the group, because no checks are undertaken to validate the devices' manufacturer(s). You will not be able to use the same name as a group that already exists.
authMe thod	authentication method.
authTy	type of authentication, choose from:
pe	1 = basic
	3 = API Key Header
	4 = API Key Body
	5 = API Key Query
authKey	name of the authentication key. This is not applicable if the 'Basic' authentication type is selected.

Response data

A confirmation of the addition.

```
INPUT

curl -v -u -k admin:admin https://localhost/api/webhooks/groups?
media=json -X POST -H "content-type:application/json" -d \

'{
    "groupName" : "Junipermist",
    "authMethod" : {
        "authType" : "1",
        "authKey" : "not used"
    }
}
```



```
OUTPUT {
    "successCount" : 1,
    "failureCount" : 0,
    "errorCode" : 0,
    "message" : "Webhook group 'Junipermist' created successfully with ID 23.
    "otherResults" : []
```



Custom Webhook Group Details

Inspect or delete a custom webhook group

URL: http(s)://{server hostname}/api/webhooks/groups/{group name}

- Methods Summary
- GET Method details
 - Response
 - Example
- PUT Method details
 - Response
 - Examples
- DELETE Method details
 - Response
 - Examples

Methods Summary

- GET Method inspect a custom webhook group
- PUT Method modify a custom webhook group
- DELETE Method delete a custom webhook group

GET Method details

Returns information about the specified custom webhook group.

Response

Information about the custom webhook group in the following format:

Name	Description
groupID	ID of the group.
groupName	group name.



authType	type of authentication, either:
	type of authentication, choose from:
	1 = basic
	3 = API Key Header
	4 = API Key Body
	5 = API Key Query
authKey	name of the authentication key. This field is not applicable if the Basic authentication type is selected.
endpointCou nt	number of webhook endpoints assigned to this webhook group.
ruleCount	number of webhook rules associated with this webhook group.

Example

PUT Method details

Modifies the specified custom webhook group.

Name	Description
groupID	ID of the group.
groupName	group name.



```
authType type of authentication, either:
type of authentication, choose from:

1 = basic
3 = API Key Header
4 = API Key Body
5 = API Key Query

authKey name of the authentication key. This field is not applicable if the Basic authentication type is selected.
```

Examples

```
INPUT
        curl -u admin:admin -k https://localhost/api/webhooks/groups/anewgroup -H
        'content-type:application/json' -X PUT
        {
             "groupID" : "24",
             "groupName" : "Anewgroup",
             "authMethod" : {
               "authType" : 1,
               "authKey" : "not used"
              },
        }
OUTPUT {
            "successCount" : 1,
            "failureCount" : 0,
            "errorCode" : 0,
            "message" : "Succeeded to edit Webhook group 'anewgroup'.",
            "otherResults" : [ ]
        }
```

DELETE Method details

Deletes the specified custom webhook group.

Response

Confirmation that the group has been deleted.





Custom Webhook Rules

List and create custom webhook rules

URL: http(s)://{server hostname}/api/webhooks/rules

- Methods Summary
- GET Method details
 - Response
 - Example
- POST Method details
 - Request Parameters
 - Examples

Methods Summary

- GET Method list custom webhook rules
- POST Method create a custom webhook rule

GET Method details

Returns a list of custom webhook rules.

Response

Same parameter fields as used below in the POST call to create a webhook rule, plus an allocated ruleID.

Example

INPUT

curl -u admin:admin https://localhost/api/webhooks/rules -H "content-type:
application/json"



```
OUTPUT {
          "items" : [ {
            "ruleID" : 11,
            "ruleName" : "Meraki Device Up Rule",
            "groupID" : 23,
            "conditions" : [ {
              "eventConditionID" : 9,
              "fieldToTest" : "${deviceName}",
              "valueToMatch" : "My AP.*",
              "operator" : "LIKE",
              "transformType" : "STRING",
              "result" : false
            } ],
            "eventMapping" : {
              "eventMappingID" : 8,
              "eventSource" : "${deviceName} on ${networkName} ",
              "eventDetails" : "${deviceModel} ",
              "webhookEvent" : {
                "eventName" : "Meraki Device Came Up",
                "eventDescription" : "Test Meraki Device Came Up Event",
                "eventID" : 8,
                "eventSeverity" : 6
             },
              "eventName" : "Meraki Device Came Up",
              "eventID" : 8
           },
           "enabled" : 1,
            "payloadID" : 15
          } ],
          "count" : 1
       }
```

POST Method details

Create a new custom webhook rule.



Request Parameters

Name	Description
ruleName	name of the rule.
groupID	id of the webhook group to which this rule will apply.
conditions	set of conditions that determine whether the webhook payload meets the requirements for raising a webhook event.
fieldToTest	key from which the value will be retrieved.
valueToMat ch	value to compare to the value from the payload.
operator	operation that the value will use.
transformTy pe	 type into which the value will be converted, from the following: Int32 Int64 Float Double String
eventMappi ng	set of parameters by which to map the webhook event.
eventSource	informational entry of the event source.
eventDetails	informational entry of the event details
eventName	name of the custom webhook event.
eventDescr	description of the event. This is informational only.
eventSeveri	severity of the event, select from:
ty	2 - Info
	4 - Minor
	6 - Major
	8 - Severe
	10 - Critical



```
INPUT
         curl -v -u -k admin:admin https://localhost/api/webhooks/rules -X POST
         -H "content-type:application/json" -d\
         '{
             "ruleName" : "Meraki Device Reboot",
             "groupID" : 1,
             "conditions" : [ {
                 "fieldToTest" : "alertType",
                 "valueToMatch" : ".*came up",
                 "operator" : "LIKE",
                 "transformType" : "STRING"
             } ],
             "eventMapping" : {
                 "eventSource" : "${deviceName} on ${networkName}",
                 "eventDetails" : "${deviceName} down",
                 "webhookEvent" : {
                     "eventName" : "Meraki Device Reboot",
                     "eventDescr" : "Test",
                     "eventSeverity" : "8"
                 }
             }
         }
OUTPUT
        "successcCount" : 1,
         "failureCount" : 0,
         "errorCode" : 0,
         "message" : "Webhook rule 'Meraki Device Reboot' created successfully.",
         "otherResults" : []
        }
```



Custom Webhook Rule Details

Inspect or delete a custom webhook rule

URL: http(s)://{server hostname}/api/webhooks/rules/{rule id}

- Methods Summary
- GET Method details
 - Response
 - Example
- DELETE Method details
 - Response
 - Examples

Methods Summary

- GET Method inspect a custom webhook rule
- DELETE Method delete a custom webhook rule

GET Method details

Returns information about the specified custom webhook rule.

Response

Information about the custom webhook rule in the following format:

Name	Description
ruleName	name of the rule.
groupID	id of the webhook group to which this rule will apply.
conditions	set of conditions that determine whether the webhook payload meets the requirements for raising a webhook event.
fieldToTest	key from which the value will be retrieved.
valueToMat ch	value to compare to the value from the payload.
operator	operation that the value will use.



	• •
transformTy pe	type into which the value will be converted, from the following: Int32 Int64 Float Double String
eventMappi ng	set of parameters by which to map the webhook event.
eventSource	informational entry of the event source.
eventDetails	informational entry of the event details
eventName	name of the custom webhook event.
eventDescr	description of the event. This is informational only.
eventSeveri ty	severity of the event, select from: 2 - Info 4 - Minor 6 - Major 8 - Severe 10 - Critical
	TO - CHILICAI

Example

INPUT curl -u admin:admin https://localhost/api/webhooks/rules/11 -H "contenttype:application/json"



```
OUTPUT {
          "ruleID" : 11,
          "ruleName" : "Meraki Device Up Rule",
          "groupID" : 23,
          "conditions" : [ {
            "eventConditionID" : 9,
            "fieldToTest" : "${deviceName}",
            "valueToMatch" : "My AP.*",
            "operator" : "LIKE",
            "transformType" : "STRING",
            "result" : false
          } ],
          "eventMapping" : {
            "eventMappingID" : 8,
            "eventSource" : "${deviceName} on ${networkName} ",
            "eventDetails" : "${deviceModel} ",
            "webhookEvent" : {
              "eventName" : "Meraki Device Came Up",
              "eventDescription" : "Test Meraki Device Came Up Event",
              "eventID" : 8,
              "eventSeverity" : 6
            },
            "eventName" : "Meraki Device Came Up",
            "eventID" : 8
          "enabled" : 1,
          "payloadID" : 15
        }
```

DELETE Method details

Deletes the specified custom webhook rule using its ruleID.

Response

Indicates success or failure of deletion.





Custom Webhook Endpoints

List all custom webhook endpoints

URL: http(s)://{server hostname}/api/webhooks/endpoints

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - list all custom webhook endpoints

GET Method details

Returns a list of custom webhook endpoints.

Name	Description
endpoi ntID	ID of the endpoint.
objectID	ID of the object on which the endpoint URL is found.
serverID	ID of the server on which the endpoint object is found.
payloa dMax	maximum number of payloads that Entuity will store at any one time. For example, if you specify a payload maximum of 3, then the 3 most recent payloads will be stored. When a new payload is received, the oldest of the 3 saved would then be deleted and replaced with the new one. Note, the payload maximum cannot be edited if payload collection is disabled.
saveEn abled	whether payload collection is enabled, either true or false . If false, this will prevent the saving of any further payloads.
endpoi ntName	name of the object on which the endpoint URL is found.
groupN ame	name of the webhook group in which the endpoint URL is found.
payloa dCount	number of saved payloads.
secret	secret key, if applicable.



Example

INPUT curl -u admin:admin https://localhost/api/webhooks/endpoints -H "contenttype:application/json" OUTPUT { "items" : ["endpointID" : 3, "objectID" : 865, "serverID" : "{serveriD}", "payloadMax" : 1, "saveEnabled" : true, "endpointName" : "bottom2960", "groupName" : "Anewgroup", "payloadCount" : 0, "secret" : "" }, "endpointID" : 4, "objectID" : 1147, "serverID" : "{serveriD}", "payloadMax" : 1, "saveEnabled" : true, "endpointName" : "quidway", "groupName" : "Anewgroup", "payloadCount" : 0, "secret" : "" }], "count" : 2 }



Custom Webhook Endpoint Details by Group

List all custom webhook endpoints for a specified webhook group

URL: http(s)://{server hostname}/api/webhooks/groups/{group name}/endpoints

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - list all custom webhook endpoints for a specified webhook group.

GET Method details

Returns a list of the custom webhook endpoints in the specified webhook group.

Response

Name	Description	
contain erID	ID of the webhook group.	
contain erName	name of the webhook group.	
endpoi ntID	ID of the endpoint.	
objectID	ID of the object on which the endpoint URL is found.	
serverID	ID of the server on which the	
payloa dMax	maximum number of payloads that Entuity will store at any one time. For example, if you specify a payload maximum of 3, then the 3 most recent payloads will be stored. When a new payload is received, the oldest of the 3 saved would then be deleted and replaced with the new one. Note, the payload maximum cannot be edited if payload collection is disabled.	
saveEn abled	whether payload collection is enabled, either true or false . If false, this will prevent the saving of any further payloads.	
endpoi ntName	name of the object on which the endpoint URL is found.	



groupN ame	name of the webhook group in which the endpoint URL is found.
payloa dCount	number of saved payloads.
secret	secret key, if applicable.

INPUT	<pre>curl -u admin:admin https://localhost/api/webhooks/groups/anewgroup /endpoints -H "content-type:application/json"</pre>



```
OUTPUT {
          "items" : [
              "containerID" : 24,
              "containerName" : null,
              "endpoints" : [
                  "endpointID" : 3,
                  "objectID" : 865,
                  "serverID" : "{serveriD}",
                  "payloadMax" : 1,
                  "saveEnabled" : true,
                  "endpointName" : "bottom2960",
                  "groupName" : "Anewgroup",
                  "payloadCount" : 0,
                  "secret" : ""
                },
                  "endpointID" : 4,
                  "objectID" : 1147,
                  "serverID" : "{serveriD}",
                  "payloadMax" : 1,
                  "saveEnabled" : true,
                  "endpointName" : "quidway",
                  "groupName" : "Anewgroup",
                  "payloadCount" : 0,
                  "secret" : ""
                }
              ]
            }
         ],
          "count" : 2
       }
```



Custom Webhook Endpoint Details

List all custom webhook endpoints

URL: http(s)://{server hostname}/api/webhooks/endpoints/{endpoint ID}

- Methods Summary
- PUT Method details
 - Response
 - Example

Methods Summary

• PUT Method - modify the specified custom webhook endpoint

PUT Method details

Modifies the specified custom webhook endpoint.

Response

Name	Description
endpoi ntID	ID of the endpoint.
objectID	ID of the object on which the endpoint URL is found.
serverID	ID of the server on which the endpoint object is found.
payloa dMax	maximum number of payloads that Entuity will store at any one time. For example, if you specify a payload maximum of 3, then the 3 most recent payloads will be stored. When a new payload is received, the oldest of the 3 saved would then be deleted and replaced with the new one. Note, the payload maximum cannot be edited if payload collection is disabled.
saveEn abled	whether payload collection is enabled, either true or false . If false, this will prevent the saving of any further payloads.



```
INPUT
    curl -k -u admin:admin https://localhost/api/webhooks/endpoints/5 -H
    "content-type:application/json" -X PUT
    '{
        "endpointID" : 5,
        "objectID" : 854,
        "serverID" : "49cb73f5-4aa5-4dbf-9219-9f86a5e8fe8e",
        "payloadMax" : 2,
        "saveEnabled" : true
    }'

OUTPUT {
        "successCount" : 1,
        "failureCount" : 0,
        "errorCode" : 0,
        "message" : "Succeeded to edit Webhook endpoint '5'.",
        "otherResults" : [ ]
    }
}
```



Custom Webhook Events

List all custom webhook events

URL: http(s)://{server hostname}/api/webhooks/events

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - list all custom webhook events.

GET Method details

Returns a list of all custom webhook events.

Response

Name	Description
eventName	name of the custom webhook event.
eventDescription	description of the event. This is informational only.
eventID	ID of the event.
eventSeverity	severity of the event, select from:
	2 - Info
	4 - Minor
	6 - Major
	8 - Severe
	10 - Critical
count	total number of events.



INPUT curl -u admin:admin https://localhost/api/webhooks/events -H "contenttype:application/json" OUTPUT { "items" : [{ "eventName" : "Meraki Device Came Up", "eventDescription" : "Test Meraki Device Came Up Event", "eventID" : 8, "eventSeverity" : 6 }, { "eventName" : "Meraki Test Event", "eventDescription" : "Test Meraki Event Description", "eventID" : 10, "eventSeverity" : 10 }], "count" : 2 }



Custom Webhook Event Details

Modify a specified custom webhook events

URL: http(s)://{server hostname}/api/webhooks/events/{webhook ID}

- Methods Summary
- PUT Method details
 - Request
 - Response
 - Examples

Methods Summary

• PUT Method - modify a specified custom webhook event.

PUT Method details

Modifies the specified custom webhook event.

Request

Name	Description
eventName	name of the custom webhook event.
eventDescription	description of the event. This is informational only.
eventID	ID of the event.
eventSeverity	severity of the event, select from:
	2 - Info
	4 - Minor
	6 - Major
	8 - Severe
	10 - Critical

Response



Returns a Maintenance Settings object. See Maintenance Settings.

```
INPUT
        curl -k -u admin:admin https://localhost/api/webhooks/events/17 -X PUT -H
        "content-type:application/json" -d \
        {
          "eventName" : "Test Event Name",
          "eventDescription" : "Test Event Description",
          "eventID" : 17,
          "eventSeverity" : 6
        }'
OUTPUT {
        "successCount" : 1,
        "failureCount" : 0,
        "errorCode" : 0,
        "message" : "Succeeded to edit Webhook event '17'.",
        "otherResults" : [ ]
        }
```



Custom Webhook Event Details by Group

Inspect information about events for a specified custom webhook group

URL: http(s)://{server hostname}/api/webhooks/groups/{group id}/events

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

 GET Method - details information about events for a specified custom webhook group, specified by group id.

GET Method details

Returns information about events in the specified webhook group, specified by group id.

Response

Name	Description
eventName	ID of the
eventName	name of the custom webhook event.
eventDescription	description of the event. This is informational only.
eventID	ID of the event.
eventSeverity	severity of the event, select from:
	2 - Info
	4 - Minor
	6 - Major
	8 - Severe
	10 - Critical
count	total number of events.



Example

INPUT curl -u admin:admin https://localhost/api/webhooks/groups/23/events -H "content-type:application/json" OUTPUT { "items" : [{ "containerID" : 23, "events" : [{ "eventName" : "Meraki Device Came Up", "eventDescription" : "Test Meraki Device Came Up Event", "eventID" : 8, "eventSeverity" : 6 }, { "eventName" : "Meraki Test Event", "eventDescription" : "Test Meraki Event Description", "eventID" : 10, "eventSeverity" : 10 }] }], "count" : 1 }



List Custom Webhook Payloads

List custom webhook payloads

URL: http(s)://{server hostname}/api/webhooks/payloads

- Methods Summary
- GET Method details
 - Response
 - Example

Methods Summary

• GET Method - list custom webhook payloads

GET Method details

Returns a list of custom webhook payloads.

Response

Name	Description
payload	data of the payload.
endpointID	ID of the custom webhook endpoint from which the payload was received.
endpointName	name of the custom webhook endpoint from which the payload was received.
objectID	stormworks identifier for hte managed device from which this webhook was sent.
mediaType	payload media type (json).
timestamp	timestamp of receipt of the payload.
groupName	name of the custom webhook group on which the endpoint is found.
payloadID	ID of the individual payload received.
count	total number of custom webhook payloads.

Example

INPUT curl -u admin:admin https://localhost/api/webhooks/payloads -H 'contenttype:application/json'



```
OUTPUT {
        "items" : [ [ {
          "payload" : "{\n \"version\": \"0.1\",\n \"sharedSecret\": \"ce2b9bf1-
      c138-473e-b8ee-0ba7f4cbd2d7\",\n\"sentAt\":\"2021-05-11T08:09:00.046974
      Z\", \n \"organizationId\": \"2930418\", \n \"organizationName\": \"My
      organization\",\n \"organizationUrl\": \"https://dashboard.meraki.com/o
      /VjjsAd/manage/organization/overview\",\n\"networkId\":\"N_24329156\",\n
      \"networkName\": \"Main Office\",\n \"networkUrl\": \"https://n1.meraki.com
      //n//manage/nodes/list\",\n \"networkTags\": [\n \"region-1\",\n \"
      \"e0:55:3d:10:56:8a\",\n \"deviceName\": \"My AP\",\n \"deviceUrl\": \"
      \n \"alertId\": \"000000000000000\",\n \"alertType\": {\n \"alert Type
      Name\": \"JuniperMist device came up\",\n \"alertTypeId\": \"
      started_reporting\"\n },\n \"alertLevel\": \"informational\",\n \"
      occurredAt\": \"2018-02-11T00:00:00.123450Z\",\n \"junk1\": \"junk1\\",\n \"
      junk2\": \"junk2\",\n \"alertData\": {\n \"DataThing1\": \"thing!\" \n }
      \n}",
          "endpointID" : 3,
          "endpointName" : "MerakiInHouse",
          "objectID" : 818,
          "mediaType" : "json",
          "timestamp" : 1649088382,
          "groupName" : "Meraki",
          "payloadID" : 15
        } ] ],
        "count" : 1
      }
```



Create Custom Webhook Payloads

Create custom webhook payloads

URL: http(s)://{server hostname}/api/webhook/cloudAlert/Generic?serverId={serverId}&group= {groupId}&objectId={objectId}

- Methods Summary
- POST Method details
 - Request
 - Response
 - Example

Methods Summary

• POST Method - create custom webhook payloads

POST Method details

Creates a custom webhook payloads.

Request

Once an endpoint has been created, the URL can be copied from the URL column of the Webhook Endpoints table on the Webhooks UI page.

- serverId = ID of the Entuity server.
- groupId = custom webhook group name with which the payload is associated.
- objectId = Entuity server StormWorks objectID from which the payload is sent from.

Response

If successful, the output is empty.

```
INPUT

curl -u admin:admin -k https://localhost/api/webhook/cloudAlert/Generic?
group=Junipermist&objectId=808&serverId=8d3f62ec-407b-440e-bc4f-
97b8633c7fd6 -H 'content-type:application/json' -X POST -d \

{
    "version": "0.1",
    "sharedSecret": "bd5f88b2-b082-45a7-8cd6-4a9440855726",
    "sentAt": "2021-05-11T08:09:00.046974Z",
    "organizationId": "2930418",
```



```
"organizationName": "My organization",
          "organizationUrl": "https://dashboard.meraki.com/o/VjjsAd/manage
        /organization/overview",
          "networkId": "N_24329156",
          "networkName": "Main Office",
          "networkUrl": "https://nl.meraki.com//n//manage/nodes/list",
          "networkTags": [
          "region-1",
          "corporate"
        ],
          "deviceSerial": "Q234-ABCD-5678",
          "deviceMac": "e0:55:3d:10:56:8a",
          "deviceName": "My AP",
          "deviceUrl": "https://nl.meraki.com//n//manage/nodes/new_list
        /000000000000",
          "deviceTags": [
          "tag1",
          "tag2"
        ],
          "deviceModel": "MR34",
          "alertId": "0000000000000000",
          "alertType": {
          "alertTypeName": "JuniperMist device came up",
          "alertTypeId": "started_reporting"
         },
          "alertLevel": "informational",
          "occurredAt": "2018-02-11T00:00:00.123450Z",
          "junk1": "junk1",
          "junk2": "junk2",
          "alertData": {
          "DataThing1": "thing!"
          }
        }
OUTPUT [ ]
```

Page 375