



Cisco Prime DCNM REST API Guide, Release 10.0.x

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Preface

Organization

This guide includes the following sections:

Section	Title	Description
1	Cisco DCNM REST API	Describes the REST API's for Cisco DCNM

Conventions

This document uses the following conventions:

Convention	Indication
bold font	Commands and keywords and user-entered text appear in bold font .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[]	Elements in square brackets are optional.
{ x y z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
<code>courier font</code>	Terminal sessions and information the system displays appear in <code>courier font</code> .
< >	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Tip

Means *the following information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.



Caution

Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.



Timesaver

Means *the described action saves time*. You can save time by performing the action described in the paragraph.



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS



Warning

Statements using this symbol are provided for additional information and to comply with regulatory and customer requirements

Obtain Documentation and Submit a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.



New and Changed Information

The following new publications support both Cisco DCNM for LAN and Cisco DCNM for SAN and address the new licensing model, the new installation process, and the new features of Cisco DCNM:

- Cisco DCNM Installation Guide, Release 10.0.x
- Cisco DCNM Release Notes, Release 10.0.x

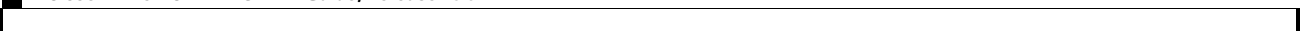
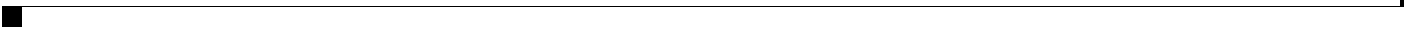
The following describes the release-specific information for each new and changed feature in the *Cisco Prime DCNM REST API Guide, Release 10.0.x*. The latest version of this document is available at the following Cisco website:

https://www.cisco.com/en/US/products/ps9369/tsd_products_support_series_home.html

Table 1 summarizes the new and changed features for the *Cisco Prime DCNM REST API Guide, Release 10.0.x*, and tells you where they are documented.

Table 1 *New and Changed Features for Cisco Prime DCNM REST API Guide, Release 10.0.x*

Feature	Description	Changed in Release	Where Documented
Config Archive	Config Archive REST API support is added.	10.0(1)	Config Archive, page 51
Discovery	Discovery REST API support is added.	10.0(1)	Discovery, page 83
Image Management	Image Management REST API support is added.	10.0(1)	Image Management, page 101
Inventory	Inventory REST API support is added.	10.0(1)	Inventory, page 117
Reports	Reports REST API support is added.	10.0(1)	Reports, page 189
Templates	Templates REST API support is added.	10.0(1)	Templates, page 193
Topology	Topology REST API support is added.	10.0(1)	Topology, page 207
Support for HTTPS	Cisco DCNM Supports only the HTTPS protocol.	10.0(1)	—





Cisco Fabric Automation REST API

Introduction

The Cisco Fabric Automation REST APIs for third party applications enables you to programmatically control Cisco Fabric Automation. The REST API supports POAP (Power On Auto Provisioning), Auto Config and Cable plan features.

POAP allows devices to boot up with temporary IP address (assigned by DHCP server), to download the POAP boot-up script (also assigned by DHCP server) which will further download the required kick-start and system image, and the device configuration file from the specific TFTP server indicated in the boot-up script.

In the Cisco Fabric Automation architecture, the virtual machine (VM) facing interface on leaf switches is automatically configured and de-configured by the auto config. It detects the server/VM boot-up, retrieves pre-defined network parameters from the asset database, and applies the generated configuration. When the VM is moved or shutdown, the auto config also updates/removes the dynamic configuration.

Cable plan provides a Netmap of port-to-port cable connectivity data that can be imported into the switches of the Fabric Automation. The XML cable plan acts as a lookup table, and if a port is not connected to its corresponding destination port as per the plan, the switch should flag an error and notify the customers.

All the REST API operations can also be performed using the DCNM GUI as DCNM uses these REST APIs to render the GUI.

For more information about Cisco Dynamic Fabric Automation, see the *Cisco DFA Application Programmer's Guide*.

Software Architecture

In a Fabric Automation datacenter, Cisco DCNM will be the central point of management for the fabric and for the network auto-configuration. PoAP templates are used to auto-configure the spine and leaf network devices and configuration profiles are used to auto-configure the organizations, networks and services.

DCNM works as the network controller in conjunction with any instances of compute/storage orchestrators and service controllers to provide an open and extensible integrated virtual and physical network. Organizations and networks can be created directly using the Cisco DCNM GUIs or through the compute/storage orchestrators. In both cases the external APIs discussed in this document are used to retrieve information and create/retrieve/update/delete configuration profile instances into the network

Asset Database (LDAP). The leaf devices in turn fetch configuration from the Asset Database and self-configure themselves. Service controllers like PNSC can also get organization/network information from DCNM through the APIs, as well as update the configuration profiles for services integration.

The general workflow is as follows:

- Create Organizations and Partitions
- As part of this, edge services may be automatically deployed
- Create Segments
- As part of this, segment services may be automatically deployed
- Deploy application workload

Throughout this process the network and network services can be automated using Fabric Automation. For an animated description of the Fabric Automation architecture and work flow refer the following link https://www.youtube.com/watch?v=MNnv2Y_k6EY.



Note

You can also use your own REST based clients to integrate with third party orchestrators.

REST APIs

DCNM will provide REST API, and the REST approach emphasizes on using the resource name as part of the URL. In this release, the response of the REST API will be encoded in JSON format (see <https://www.json.org> for validation).

The query parameters for the https GET will be appended to the URL after the symbol “?”; the input for the https POST/PUT/DELETE will be specified in the payload with the URL-encoded. REST APIs support both https and http.

This section contains the high level description for the REST API, during implementation the REST APIs are subject to change.

DCNM REST API supports “application/json” for the Content-Type.

The following parameter types are mentioned in this document:

- A - Array
- S - String
- O – Object

- “Authentication” section on page -3
- “Auto Configuration” section on page -9
- “Cable Plan” section on page -37
- “DCI” section on page -63
- “DHCP” section on page -83
- “Multiple Orchestrator Support” section on page -149
- “Multiple Mobility Domain with VLAN Translation” section on page -139
- “Power On Auto Provisioning (POAP)” section on page -167

Authentication

The Authentication REST APIs can be used by an external application to authenticate itself to the DCNM in order to control the Fabric Automation cluster. After calling logon to get the token, all the subsequent REST API requests need to set the DCNM-Token field with the token in the HTTPS header.

From Release 10.0(1), by default, the Cisco DCNM will support https only.

The following are the Authentication REST APIs:

- [Logon, page -5](#)
- [Logout, page -6](#)
- [Get DCNM Version, page -7](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Logon

Resource Name /logon

Description Logon to DCNM server to authenticate the user. Once the authentication is complete, a token will be returned as the response. All API calls to the DCNM server should use this token until it is expired or invalid. The logon API uses “username:password” with base64 encoded in https Authorization header. For example, “Authorization: Basic QWxhZGRpbjpvYGVuIHNlc2FtZQ==” will return the token in the payload.

https Method POST

URL https://dcnm-ip/rest/logon

Parameter

Parameter	Type	Description
expirationTime	O	Token expiry time in milliseconds.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Dcnm-Token	S	Details of the token.

Logout

Resource Name /logout

Description Logout from the DCNM server. Once you have logged out, the token will be invalid. You must set the token in the Authorization header while using this API.

https Method POST

URL https://dcnm-ip/rest/logout

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get DCNM Version

Resource Name /rest/dcnm-version

Description Get the installed DCNM version.

https Method GET

URL https://dcnm-ip/rest/dcnm-version

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Dcnm-Version	S	Get DCNM version.

Auto Configuration

The auto configuration contains the following tables:

- [Organization, page -10](#)
- [Partition, page -10](#)
- [Network, page -10](#)
- [Profile, page -11](#)
- [Mandatory Field Class table, page -12](#)

The following are the auto-configuration REST APIs:

- [List Organizations, page -15](#)
- [Create an Organization, page -16](#)
- [Get an Organization, page -17](#)
- [Update an Organization, page -18](#)
- [Delete an Organization, page -19](#)
- [List Partitions, page -20](#)
- [Create a Partition, page -21](#)
- [Get a Partition, page -22](#)
- [Update a Partition, page -23](#)
- [Delete a Partition, page -24](#)
- [List Networks, page -25](#)
- [Create a Network, page -26](#)
- [Get a Network, page -27](#)
- [Update a Network, page -28](#)
- [Delete a Network, page -29](#)
- [Create a Auto Configuration profile, page -33](#)
- [Delete a Auto Configuration profile, page -36](#)
- [Get Auto Config Settings, page -30](#)
- [Update Auto Config Settings, page -31](#)
- [List Auto Configuration Profiles, page -32](#)
- [Create a Auto Configuration profile, page -33](#)
- [Get a Auto Configuration profile, page -34](#)
- [Update a Auto Configuration profile, page -35](#)
- [Delete a Auto Configuration profile, page -36](#)

Organization

Attributes	Type	Require
organizationName	String	Mandatory
description	String	Optional
orchestrationSource	String	Optional

Partition

Attributes	Type	Require
partitionName	String	Mandatory
partitionSegmentId	String	Mandatory
organizationName	String	Mandatory
vrfProfileName	String	Mandatory
description	String	Optional
serviceNodeIpAddress	String	Optional
dnsServer	String	Optional
secondaryDNSServer	String	Optional
vrfName	String	Optional
dciId	String	Optional
configArg	String	Optional

Network

Attributes	Type	Require
organizationName	String	Mandatory
networkRole	String	Mandatory
networkName	String	Mandatory
segmentId	String	Mandatory
vlanId	String	Mandatory
mobilityDomainId	String	Mandatory
profileName	String	Mandatory
partitionName	String	Mandatory
dvsId	String	Optional
staticIpStart	String	Optional
gateway	String	Optional
netmaskLength	String	Optional
gatewayIpv6Address	String	Optional
prefixLength	String	Optional
secondaryGateway	String	Optional

Attributes	Type	Require
staticIpEnd	String	Optional
vSwitchControllerNetworkId	String	Optional
description	String	Optional
vSwitchControllerId	String	Optional
configArg	String	Optional
dhcpScope	subnet	Optional
	gateway	Optional
	ipRange	Optional
vrfName	String	Optional

Profile

Attributes	Type	Require
forwardingMode	String	Mandatory
profileName	String	Mandatory
configCommands	String	Mandatory
description	String	Optional
profileType	String	Mandatory
profileSubType	String	Mandatory

Mandatory Field Class table

ConfigDeliveryTask

Attributes	Type	Required	Constants, Formats
description	String	Mandatory	
timeout	Number	Mandatory	
scheduledTimeStr	String	Mandatory	Format: dd/MM/yyyy HH:mm:ss
configDeliveryTaskRollbackSetting	String	Mandatory	Possible values: <ul style="list-style-type: none"> Rollback on Device and Stop Delivery on Other Devices Rollback on Device and Continue Delivery on Other Devices Rollback on All Devices Stop Delivery on Error Stop Delivery on All Devices on Error Continue on Error
configDeliveryTaskDeliveryOrderSetting	String	Optional	Possible values: <ul style="list-style-type: none"> sequential parallel
configTemplateRef	ConfigTemplate	Mandatory	
configDeliveryTaskDeviceDetailsCollection	ConfigDeliveryTaskDeviceDetails[]	Mandatory	
isCopyRunToStartTask	Boolean	Optional	
username	String	Mandatory	
password	String	Mandatory	

ConfigTemplate

Attributes	Type	Required
name	String	Mandatory
instanceClassId	Number	Optional

ConfigDeliveryTaskDeviceDetails

Attributes	Type	Required
ipAddress	String	Mandatory
paramValues	Array	Mandatory

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET OK POST PUT DELETE
202 ¹	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

1. Status Code 202 is returned only if the operation is **Un-committed**. Status code 200 is returned otherwise.

List Organizations

Resource Name /auto-config/organizations

Description Displays a list of Organizations.

https Method GET

URL https://dcnm-ip/rest/auto-config/organizations
https://dcnm-ip/rest/auto-config/organizations?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
Organizations	A	By default, a list of organization names is displayed. If “detail=true”, then a list of Organization objects is displayed.

Create an Organization

Resource Name /auto-config/organizations

Description Enables you to create a new organization.

https Method POST

URL https://dcnm-ip/rest/auto-config/organizations

Parameter

Parameter	Type	Description
Organization	O	Organization object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Organization-name	S	New organization name

Get an Organization

Resource Name /auto-config/organizations/organization-name

Description Enables you to get an organization.

https Method GET

URL https://dcnm-ip/rest/auto-config/organizations/organization-name

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Organization	O	Organization object

Update an Organization

Resource Name /auto-config/organizations/organization-name

Description Enables you to update an organization.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/organization-name

Parameter

Parameter	Type	Description
Organization	O	Organization object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete an Organization

Resource Name /auto-config/organizations/organization-name

Description Enables you to delete a organization.

https Method DELETE

URL https://dcnm-ip/rest/auto-config/organizations/organization-name

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

List Partitions

Resource Name /auto-config/organizations/organization-name/partitions

Description Displays a list of partitions.

https Method GET

URL https://dcnm-ip/rest/auto-config/organizations/organization1/partitions
https://dcnm-ip/rest/auto-config/organizations/organization1/partitions?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
Partitions	A	By default, a list of partition names is displayed. If “detail=true”, then a list of partition objects is displayed.

Create a Partition

Resource Name /auto-config/organizations/organization-name/partitions

Description Enables you to create a new partition.

https Method POST

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions

Parameter

Parameter	Type	Description
Partition-object	O	Partition object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
partition-name	S	Partition name

Get a Partition

Resource Name /auto-config/organizations/organization-name/partitions/partition-name

Description Enables you to get a partition.

https Method GET

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Partition	O	Partition object

Update a Partition

Resource Name /auto-config/organizations/organization-name/partitions/partition-name

Description Update a partition.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name

Parameter

Parameter	Type	Description
Partition	O	Partition object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a Partition

Resource Name /auto-config/organizations/organization-name/partitions/partition-name

Description Delete a partition.

https Method DELETE

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

List Networks

Resource Name /auto-config/organizations/organization-name/partitions/partition-name/networks

Description List of networks.

https Method GET

URL <https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks>
<https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks?detail=true>

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
Networks	A	By default, a list of segment IDs for 12 segments, a list of VLAN IDs, and Mobility Domain IDs for the VLAN Mobility Domain is displayed. If “detail=true”, then list of network objects is displayed

Create a Network

Resource Name /auto-config/organizations/organization-name/partitions/partition-name/networks

Description Create a new network.

https Method POST

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks

Parameter

Parameter	Type	Description
Network	O	Network object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
SegmentID or VLANID + MobilityDomainID	S	Segment ID for 12 segments or VLAN ID and Mobility Domain ID for VLAN Mobility Domain is displayed.

Get a Network

Resource Name /auto-config/organizations/organization-name/partitions/partition-name/networks/{network-id}

Description Get a network.

https Method GET

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/segment/20010
 https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/vlan/10/mobility-domain/mydomain

Parameter

Parameter	Type	Description

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description
Network	O	Network object

Update a Network

Resource Name /auto-config/organizations/organization-name/partitions/partition-name/networks/{network-id}

Description Update a network.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/segment/20010
 https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/vlan/10/mobility-domain/mydomain

Parameter

Parameter	Type	Description
Network	O	Network object

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description

Delete a Network

Resource Name /auto-config/organizations/organization-name/partitions/partition-name/networks/{network-id}

Description Delete a network.

https Method DELETE

URL https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/segment/20010
 https://dcnm-ip/rest/auto-config/organizations/organization-name/partitions/partition-name/networks/vlan/10/mobility-domain/mydomain

Parameter

Parameter	Type	Description

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description

Get Auto Config Settings

Resource Name /auto-config/settings

Description Get auto config settings.

https Method GET

URL https://dcnm-ip/rest/auto-config/settings

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Auto-config-settings	O	<p>The following auto config settings objects are displayed: ldapServer, ldapUserName, ldapPassWord, segmentIdRange, partitionIdRange, useLocalDhcp, dhcpPrimarySubnet, enableAmqpNotification, amqpServer, amqpPort, amqpVirtualHost, amqpUserName, amqpPassWord, amqpExchangeName, xmppServer, xmppUserName, xmppPassWord, xmppGroup, xmppResponseTimeout, xmppSearch, vrfName</p> <p>The following attributes are applicable for HA set-up: ldapPeerServer, ldapPeerUserName, ldapPeerPassWord.</p>

Update Auto Config Settings

Resource Name /auto-config/settings

Description Update auto config settings.

https Method PUT

URL https://dcnm-ip/rest/auto-config/settings

Parameter

Parameter	Type	Description
Auto-config-settings	O	<p>The following auto config settings object are displayed: ldapServer, ldapUserName, ldapPassWord, segmentIdRange, partitionIdRange, useLocalDhcp, dhcpPrimarySubnet, enableAmqpNotification, amqpServer, amqpPort, amqpVirtualHost, amqpUserName, amqpPassWord, amqpExchangeName, xmppServer, xmppUserName, xmppPassWord, xmppGroup, xmppResponseTimeout, xmppSearch, vrfName</p> <p>The following attributes are applicable for HA set-up: ldapPeerServer, ldapPeerUserName, ldapPeerPassWord.</p>

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

List Auto Configuration Profiles

Resource Name /rest/auto-config/profiles

Description List of profiles

https Method GET

URL https://dcnm-ip/rest/auto-config/profiles

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
profiles	A	By default, a list of profile Names, profile Types and profile SubTypes are displayed. If "detail=true", a list of profile objects is displayed.

Create a Auto Configuration profile

Resource Name /rest/auto-config/profiles/

Description Create a new profile.

https Method POST

URL https://dcnm-ip/rest/auto-config/profiles/

Parameter

Parameter	Type	Description
profile	O	Profile object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ProfileName	S	Profile name

Get a Auto Configuration profile

Resource Name

```

/rest/auto-config/profiles/{profile-name}
/rest/auto-config/profiles/{profile-name}/type/IPVLAN
/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Description

If profile Type has not been provided then response will return default FPVLAN profile.
 If profile Type is IPVLAN then response will return IPVLAN profile.
 If profile Type is FPBD then response will return FPBD profile.

https Method GET

URL

```

https://dcnm-ip/rest/auto-config/profiles/{profile-name}
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/IPVLAN
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Parameter

Parameter	Type	Description

Return Value

Format: JSON
 Type: Object

Attribute Name	Type	Description
profile	O	Profile object

Update a Auto Configuration profile

Resource Name

```

/rest/auto-config/profiles/{profile-name}
/rest/auto-config/profiles/{profile-name}/type/IPVLAN
/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Description

If profile Type has not been provided then update a default FPVLAN profile.
 If profile Type is IPVLAN then update an IPVLAN profile.
 If profile Type is FPBD then update a FPBD profile.

https Method PUT

URL

```

https://dcnm-ip/rest/auto-config/profiles/{profile-name}
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/IPVLAN
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Parameter

Parameter	Type	Description
profile	O	Profile object

Return Value

Format: JSON
 Type: Object

Attribute Name	Type	Description

Delete a Auto Configuration profile

Resource Name

```

/rest/auto-config/profiles/{profile-name}
/rest/auto-config/profiles/{profile-name}/type/IPVLAN
/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Description

If profile Type has not been provided then delete a default FPVLAN profile.
 If profile Type is IPVLAN then delete an IPVLAN profile.
 If profile Type is FPBD then delete a FPBD profile.

https Method DELETE

URL

```

https://dcnm-ip/rest/auto-config/profiles/{profile-name}
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/IPVLAN
https://dcnm-ip/rest/auto-config/profiles/{profile-name}/type/FPBD

```

Parameter

Parameter	Type	Description

Return Value

Format: JSON
 Type: Object

Attribute Name	Type	Description

Cable Plan

The following are the Cable Plan REST APIs:

- [Capture a Cable Plan, page -39](#)
- [Generate a Cable Plan, page -40](#)
- [Get a Cable Plan, page -41](#)
- [Save a Cable Plan, page -42](#)
- [Delete a Cable Plan, page -43](#)
- [Get a Cable Plan From Device, page -44](#)
- [View Cable Plan From Device, page -45](#)
- [Import a Cable Plan, page -46](#)
- [Export a Cable Plan, page -47](#)
- [Deploy a Cable Plan, page -48](#)
- [Revoke a Cable Plan, page -49](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Capture a Cable Plan

Resource Name /cable-plans/discovery

Description Extract a cable plan base on the switches discovered by DCNM.

https Method GET

URL https://dcnm-ip/rest/cable-plans/discovery

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
cable-plan-name	S	Name of the cable plan

Generate a Cable Plan

Resource Name /cable-plans/poap

Description Generate a cable plan base on the POAP switch definitions from DCNM

https Method GET

URL https://dcnm-ip/rest/cable-plans/poap

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
cable-plan-name	S	Name of the cable plan

Get a Cable Plan

Resource Name /cable-plans

Description Get a cable plan

https Method GET

URL https://dcnm-ip/rest/cable-plans
https://dcnm-ip/rest/cable-plans?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
cable-plan	O	By default returns cable-plan information, if “detail=true”, then will return CablePlan object.

Save a Cable Plan

Resource Name /cable-plans

Description Save a cable plan into the DCNM database.

https Method POST

URL https://dcnm-ip/rest/cable-plans

Parameter

Parameter	Type	Description
cable-plan-object	O	Cable-plan-object including cable-plan-name, source-device, source-device-type, source-port, dest-device, dest-device-type, dest-port.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a Cable Plan

Resource Name /cable-plans

Description Delete cable plan base on the POAP switch definitions from DCNM.

https Method DELETE

URL https://dcnm-ip/rest/cable-plans

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get a Cable Plan From Device

Resource Name /cable-plans/device-xml

Description Get a cable plan from devices in XML

https Method POST

URL https://dcnm-ip/rest/cable-plans/device-xml

Parameter

Parameter	Type	Description
Ip-addresses	S	The Switch IP Address list which derives the cable plan.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
cable-plan-info	S	Cable plans in XML

View Cable Plan From Device

Resource Name /cable-plans/device-raw

Description Get cable plan from devices and return in raw format

https Method POST

URL https://dcnm-ip/rest/cable-plans/device-raw

Parameter

Parameter	Type	Description
Ip-addresses	S	The Switch IP Address list which derives the cable plan

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Cable-plan-info	S	Cable plans in raw format

Import a Cable Plan

Resource Name /cable-plans/import

Description Returns Cable Plan object of imported cable plan file.

https Method POST

URL https://dcnm-ip/rest/cable-plans/import

Parameter

Parameter	Type	Description
cable-plan	S	You must provide a Name for the cable plan and the cable plan content in the payload.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Cable-plan-object	O	Cable plan object

Export a Cable Plan

Resource Name /cable-plans/xml

Description Export a cable plan from DCNM in XML format

https Method GET

URL https://dcnm-ip/rest/cable-plans/xml

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Cable-plan-object	S	Name of the cable plan and content in XML format in the payload.

Deploy a Cable Plan

Resource Name /cable-plans/fabric

Description Deploy a cable plan to all the spine and leaf devices

https Method POST

URL hhttps://dcnm-ip/rest/cable-plans/fabric

Parameter

Parameter	Type	Description
Ip-addresses	S	Switch IP address list that needs to be deployed.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Revoke a Cable Plan

Resource Name /cable-plans/revoke

Description Revoke a cable plan from all the spine and leaf devices

https Method POST

URL https://dcnm-ip/rest/cable-plans/revoke

Parameter

Parameter	Type	Description
Ip-addresses	S	Switch IP address list that needs to be deployed.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description



Config Archive

The following are the Config Archive REST APIs:

- [Get Archived Devices](#), page -53
- [Get Archived Configurations for device](#), page -54
- [Compare Configurations](#), page -55
- [Copy Configuration](#), page -56
- [Delete Configurations](#), page -57
- [Get List of Archive Jobs](#), page -58
- [Get Devices for a Archive Job](#), page -59
- [Delete Archive Job](#), page -60
- [Get Device in Particular Group](#), page -61
- [Get Job Execution History](#), page -62

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Archived Devices

Resource Name /config/archive/devices

Description Get Config Archive devices

https Method GET

URL https://dcnm-ip/fm/fmrest/config/archive/devices

Parameter

Parameter	Type	Description
filterStr	archivedOnly:true	Filter string

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
List<BackupDeviceDO>	O	List of BackupDeviceDO

Get Archived Configurations for device

Resource Name /config/archive/devices

Description Get Archived configuration Archive devices

https Method GET

URL https://dcnm-ip/fm/fmrest/config/archive/devices

Parameter

Parameter	Type	Description
filterStr	archivedOnly:true	Filter string
parentID	int	Database ID of the device

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
List<BackupDeviceDO>	O	List of BackupDeviceDO

Compare Configurations

Resource Name /config/archive/compare

Description Compares two Archived Configurations and returns the differences.

https Method GET

URL https://dcnm-ip/fm/fmrest/config/archive/compare

Parameter

Parameter	Type	Description
sourceDevice	S	Source Device IP Address
sourceConf	S	Source Configuration to Compare
targetDevice	S	Target Device IP Address
targetConf	S	Target Configuration to Compare
showAll	B	Show diff only or all (true/false)

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Map<String, Report>	O	Map of group configuration Items

Copy Configuration

Resource Name /config/archive/copy

Description Get list of archived configurations for a device

https Method POST

URL https://dcnm-ip/fm/fmrest/config/archive/restore

Parameter

Parameter	Type	Description
sourceDevice	S	Source Device IP Address
sourceConf	S	Source Configuration to Compare
targetDevices	S	Target Device IP Address
Modified	B	Copy a modified configuration

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
List<String>	O	Copy Command device response

Delete Configurations

Resource Name /config/archive/

Description Delete the configuration.

https Method DELETE

URL https://dcnm-ip/fm/fmrest/config/archive

Parameter

Parameter	Type	Description
parentID(path parameter)	S	Source Device database ID
configuration(path parameter)	S	Source Configuration to delete

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get List of Archive Jobs

Resource Name /config/archive/jobs

Description Get all jobs

https Method GET

URL https://https://dcnm-ip/fm/fmrest/config/archive/jobs

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Map<String, Map<String, ArchiveJobDO >>	O	Map of ArchiveJobDO

Get Devices for a Archive Job

Resource Name /config/archive/job/{jobID}

Description Get devices part of the archive job.

https Method GET

URL https://https://dcnm-ip/fm/fmrest/config/archive/job/switch/groupID

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
Map<String, Map<String, SwitchNameDO>>	O	Map of switch group and SwitchNameDo.

Delete Archive Job

Resource Name /config/archive/jobs

Description Delete the job

https Method DELETE

URL https://https://dcnm-ip/fm/fmrest/config/archive/jobs/{jobName}

Parameter

Parameter	Type	Description
jobName	path	Path parameter

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigDeliveryTaskDeviceDO []	A	Array of device objects

Get Device in Particular Group

Resource Name /config/archive/job/group

Description Get eligible devices for a group.

https Method GET

URL https://https://dcnm-ip/fm/fmrest/config/archive/job/group/{groupID}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Map<String, Map<String, SwitchNameDO>>	O	Map of switch group and SwitchNameDo.

Get Job Execution History

Resource Name /config/archive/

Description Get job execution history.

https Method GET

URL https://https://dcnm-ip/fm/fmrest/config/archive/jobs/execution

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Map<String, Map<String, BackupStatusDO>>	O	Map of BackupStatusDO.

DCI

The following are the DCI REST APIs:

- [Get Fabric Automation DCI Settings, page -65](#)
- [Update Fabric Automation DCI Settings, page -66](#)
- [List DCI pairs, page -67](#)
- [Create DCI Pairs, page -68](#)
- [Get DCI Pairs with Node Id, page -69](#)
- [Update DCI Pairs with Node ID, page -70](#)
- [Delete DCI Pairs with Node ID, page -71](#)
- [Get DCI Pairs with Node ID and Peer ID, page -72](#)
- [Update DCI Pairs with Node ID and Peer ID, page -73](#)
- [Delete DCI Pairs with Node ID and Peer ID, page -74](#)
- [Create Partition with DCI Option, page -75](#)
- [Update Partition with DCI ID, page -76](#)
- [Update Partition to Disable DCI Extension, page -77](#)
- [Update Partition to Enable DCI Extension, page -78](#)
- [List All Extended Partitions, page -79](#)
- [List All Extended Partitions with a VRF, page -80](#)
- [List all Extended Partitions in an Organization, page -81](#)
- [Get Extended Partition, page -82](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Fabric Automation DCI Settings

Resource Name /settings/dci

Description Get Fabric Automation DCI settings

https Method GET

URL https://dcnm-ip/rest/settings/dci

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
settings	O	Return DCI settings

Update Fabric Automation DCI Settings

Resource Name /settings/dci

Description Update Fabric Automation DCI settings

https Method PUT

URL https://dcnm-ip/rest/settings/dci

Parameter

Parameter	Type	Description
settings	S	Update the DCI settings.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

List DCI pairs

Resource Name /auto-config/dci/paired-devices

Description List all the DCI pairs.

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/paired-devices

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
dci-pairings	S	DCI pairs

Create DCI Pairs

Resource Name /auto-config/dci/paired-devices

Description Create DCI pairing.

https Method POST

URL https://dcnm-ip/rest/auto-config/dci/paired-devices

Parameter

Parameter	Type	Description
dci-pairing	O	DCI pairing

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get DCI Pairs with Node Id

Resource Name /auto-config/dci/paired-devices/device/{node-id}

Description Get the Edge Router with the paired border leaf for a given node ID, or of type “BL-DCI”, or type “Hub PE” without peering.

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
dci-pairing	O	DCI pairing

Update DCI Pairs with Node ID

Resource Name /auto-config/dci/paired-devices/device/{node-id}

Description Update the DCI pairing for the type "BL-DCI" or "BL" without peering

https Method PUT

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
dci-pairing	O	DCI pairing

Delete DCI Pairs with Node ID

Resource Name /auto-config/dci/paired-devices/device/{node-id}

Description Delete the DCI pairing for the type "BL-DCI" or "BL" without peering

https Method DELETE

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Get DCI Pairs with Node ID and Peer ID

Resource Name /auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Description Get the DCI pairing for a given node-id and peer-id

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
dci-pairing	O	DCI pairing

Update DCI Pairs with Node ID and Peer ID

Resource Name /auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Description Update the DCI pairing for a given node-id and peer-id.

https Method PUT

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Parameter

Parameter	Type	Description
dci-pairing	O	DCI Pairing

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
settings	O	Return DCI settings

Delete DCI Pairs with Node ID and Peer ID

Resource Name /auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Description Delete the DCI pairing for a given node ID and peer ID

https Method DELETE

URL https://dcnm-ip/rest/auto-config/dci/paired-devices/device/{node-id}/peer/{peer-node-id}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Create Partition with DCI Option

Resource Name /auto-config/organizations/{organization-name}/partitions

Description Create the partition with DCI ID and enable DCI extension.

https Method POST

URL https://dcnm-ip/rest/auto-config/organizations/{organization-name}/partitions

Parameter

Parameter	Type	Description
partition	O	Partition object

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Update Partition with DCI ID

Resource Name /auto-config/organizations/{organization-name}/partitions/{partition-name}

Description Update the partition with DCI ID.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/{organization-name}/partitions/{partition-name}

Parameter

Parameter	Type	Description
partition	O	Partition object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Update Partition to Disable DCI Extension

Resource Name /auto-config/organizations/{organization-name}/partitions/{partition-name}

Description Update the partition to disable DCI extension.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/{organization-name}/partitions/{partition-name}

Parameter

Parameter	Type	Description
partition	O	Partition object

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Update Partition to Enable DCI Extension

Resource Name /auto-config/organizations/{organization-name}/partitions/{partition-name}

Description Update the partition to enable DCI extension.

https Method PUT

URL https://dcnm-ip/rest/auto-config/organizations/{organization-name}/partitions/{partition-name}

Parameter

Parameter	Type	Description
partition	O	Partition object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

List All Extended Partitions

Resource Name /auto-config/dci/extended-partitions

Description List all the extended partitions.

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/extended-partitions
https://dcnm-ip/rest/auto-config/dci/extended-partitions?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
extended-partition	O	Extended partition

List All Extended Partitions with a VRF

Resource Name /auto-config/dci/extended-partitions/vrfs/{vrf-name}

Description List all the extended partitions with a VRF.

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/extended-partitions/vrfs/{vrf-name}
https://dcnm-ip/rest/auto-config/dci/extended-partitions/vrfs/{vrf-name}?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
extended-partition	O	Extended partition

List all Extended Partitions in an Organization

Resource Name /auto-config/dci/extended-partitions/organizations/{organization-name}

Description List all the extended partitions in a organization.

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/extended-partitions/organizations/{organization-name}
 https://dcnm-ip/rest/auto-config/dci/extended-partitions/organizations/{organization-name}?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description
extended-partition	O	Extended partition

Get Extended Partition

Resource Name /auto-config/dci/extended-partitions/organizations/{organization-name}/partitions/{partition-name}

Description Get extended partition

https Method GET

URL https://dcnm-ip/rest/auto-config/dci/extended-partitions/organizations/{organization-name}/partitions/{partition-name}
 https://dcnm-ip/rest/auto-config/dci/extended-partitions/organizations/{organization-name}/partitions/{partition-name}?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description
extended-partition	O	Extended partition

DHCP

The following are the DHCP REST APIs:

- [List POAP Scopes, page -85](#)
- [Create a POAP Scope, page -86](#)
- [Update a POAP Scope, page -87](#)
- [Delete a POAP Scope, page -88](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

List POAP Scopes

Resource Name /poap/dhcp/scopes

Description List of POAP DHCP scopes

https Method GET

URL https://dcnm-ip/rest/poap/dhcp/scopes

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
Poap-scopes	A	A list of scope objects including scope name, ip-range, default-lease-time, max-lease-time, tftp-server-ip-address, tftp-server-username, tftp-server-password, boot-script-path is displayed.

Create a POAP Scope

Resource Name /poap/dhcp/scopes

Description Create a new DHCP scope for POAP.

https Method POST

URL https://dcnm-ip/rest/poap/dhcp/scopes

Parameter

Parameter	Type	Description
Poap-scope		Displays a list of POAP scope objects including scope name and ip-range, default-lease-time, max-lease-time, tftp-server-ip-address, tftp-server-username, tftp-server-password, boot-script-path.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
scope-name	S	DHCP scope name.

Update a POAP Scope

Resource Name /poap/dhcp/scopes/{scope-name}

Description Update a DHCP scope for POAP.

https Method PUT

URL https://dcnm-ip/rest/poap/dhcp/scopes/{scope-name}

Parameter

Parameter	Type	Description
Poap-scope	O	Displays a list of POAP scope objects including scope name and switch-settings, switch-settings includes ip-range, default-lease-time, max-lease-time, tftp-server-ip-address, tftp-server-username, tftp-server-password, boot-script-path

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a POAP Scope

Resource Name /poap/dhcp/scopes/{scope-name}

Description Delete a DHCP scope for POAP.

https Method DELETE

URL https://dcnm-ip/rest/poap/dhcp/scopes/{scope-name}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Discovery

The following are the Discovery REST APIs:

- [Discover Fabric, page -85](#)
- [Shallow Discover LAN Device\(s\), page -87](#)
- [Discover LAN Device\(s\), page -89](#)
- [Discover Storage Device, page -91](#)
- [Discover Virtual Machine, page -93](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
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401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Discover Fabric

Resource Name /san/discoverFabricWithServerFuji4

Description Enables you to discover fabrics

https Method SET

URL https://dcnm-ip/fm/fmrest/san/discoverFabricWithServerFuji4

Parameter

Parameter	Type	Description
send	string	Seed switch for discovery
isV3	string	Is snmp V3: "true" or "false"
username	string	Snmp user name if v3, ignored if v2
password	string	Snmp v3 password or ignored if v2
v3protocol	string	Snmp v3 protocol V3 MD5 only = "0" V3 SHA only = "1" V3 MD5_DES = "2" V3 MD5_AES = "3" V3 SHA_DES = "4" V3 SHA_AES = "5"
community	string	Snmp v2 community string, ignored if snmp v3
inVsans	string	Included Vsan range for discovery. Example: "1" for VSAN 1, "1,3" for VSAN 1 and 3 "1-3" for VSAN 1, 2, 3
exVsans	string	Excluded Vsan range for discovery. Example: "1" for VSAN 1, "1,3" for VSAN 1 and 3 "1-3" for VSAN 1, 2, 3
globalEnableNpvDiscovery	string	Enable discovery to include NPV sw globally "true" or "false"

Parameter	Type	Description
ucsUsername	string	Ssh Username for UCS software, ignored if null or 0 length String
ucsPasswd	string	Ssh password for UCS sw, ignored if null or 0 length String
fmserver	string	Target DCNM server IP String where this fabric will be discovered by, this cannot be blank or null; even in the non-federation setup, the connected DCNM server IP string has to be provided.

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
CallResultDO	A	Result CallResultDO.getResultStatus() : 0 means success Non-0 means failure and getResultMessage() will be the failure result

Shallow Discover LAN Device(s)

Resource Name /san/shallowLanDiscover

Description Shallow discover LAN Device(s) by CDP discovery

https Method GET

URL https://dcnm-ip/fm/fmrest/san/shallowLanDiscover

Parameter

Parameter	Type	Description
SeedIp	string	Seed switch for LAN CDP discovery by hops or switch ip list for LAN CDP discovery "10.1.1.1" or "10.1.1.1-3"
isFWSM	string	Always "false"
isV3	string	Is snmp V3: "true" or "false"
username	string	Snmp user name if v3, ignored if v2
password	string	Snmp v3 password or ignored if v2
v3protocol	string	Snmp v3 protocol V3 MD5 only = "0" V3 SHA only = "1" V3 MD5_DES = "2" V3 MD5_AES = "3" V3 SHA_DES = "4" V3 SHA_AES = "5"
community	string	Snmp v2 community string, ignored if snmp v3

Parameter	Type	Description
maxHop	string	Number of hops for LAN CDP Discovery if a single switch ip is provided in "seedIp" parameter, ignored if a switch list is provided in "seedIp" parameter
cdpTimeout	string	LAN CDP Discovery timeout, "3" for 3 sec and 3, 6, 9, 10, 20, 30 sec are provided on the GUI

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
rstDO	AdminShallowDiscoverNodeDO[]	<p>Array of AdminShallowDiscoverNode Objects</p> <p>Note for AdminShallowDiscoverNode-</p> <p>reachable:boolean;</p> <p>auth:boolean;</p> <p>known:boolean;</p> <p>valid:boolean;</p> <p>selectable:boolean;</p> <p>sysName:String;</p> <p>ipaddr:String;</p> <p>platform:String;</p> <p>version:String;</p> <p>lastChange:String;</p> <p>hopCount:int;</p> <p>deviceIndex:String;</p> <p>statusReason:String;</p>

Discover LAN Device(s)

Resource Name /san/discoverLan

Description Discover LAN device(s)

https Method SET

URL https://dcnm-ip/fm/fmrest/san/discoverLan

Parameter

Parameter	Type	Description
SeedIp	string	switch ip list for LAN CDP discovery "10.1.1.1" or "10.1.1.1-3" Note: recommend picking the switch(s) from the output of /san/shallowLanDiscover where the node is reachable true and valid true
isFWSM	string	Always "false"
isV3	string	Is snmp V3: "true" or "false"
username	string	Snmp user name if v3, ignored if v2
password	string	Snmp v3 password or ignored if v2
v3protocol	string	Snmp v3 protocol V3 MD5 only = "0" V3 SHA only = "1" V3 MD5_DES = "2" V3 MD5_AES = "3" V3 SHA_DES = "4" V3 SHA_AES = "5"
community	string	Snmp v2 community string, ignored if snmp v3
maxHop	string	null
enablePwd	string	null

Parameter	Type	Description
groupDbId	string	LAN Group DB Id, eg. "10" for 10
isDeepDiscovery	string	null
serverIpAddress	string	Target DCNM server IP String where this LAN device will be discovered by, this cannot be blank or null; even in the non-federation setup, the connected DCNM server IP string has to be provided.
isSingleDeviceTask	string	Always "true".

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
CallResultDO	A	Result CallResultDO.getResultStatus() : 0 means success Non-0 means failure and getResultMessage() will be the failure result

Discover Storage Device

Resource Name /storage/demandDiscoverSmisProvider

Description Discover SMIS

https Method SET

URL https://dcnm-ip/fm/fmrest/storage/demandDiscoverSmisProvider

Parameter

Parameter	Type	Description
smisWorker	SMISProviderWorkerDO	SMIS provider information providerList:SMISProviderDO[], password:String, fmserver:String note : SMISProviderDO is dbId:long; provId:int; fmServer:String; ns:String; interopns:String; url:String; username:String; port:int; secure:boolean; vendor:String; select:String; status:String; managedstatus:String; lastUpdated:String; version:String;

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
CallResultDO	A	Result CallResultDO.getResultStatus() : 0 means success Non-0 means failure and getResultMessage() will be the failure result

Discover Virtual Machine

Resource Name /san/addVirtualCenter

Description Discover Virtual Machine

https Method SET

URL https://dcnm-ip/fm/fmrest/san/addVirtualCenter

Parameter

Parameter	Type	Description
vcIP	string	Virtual Center Ip address
username	string	Virtual Center user name
password	string	Virtual Center password
serverIpAddress	string	Target DCNM server IP String where this Virtual Machine will be discovered by, this cannot be blank or null; even in the non-federation setup, the connected DCNM server IP string has to be provided.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
CallResultDO	A	Result CallResultDO.getResultStatus() : 0 means success Non-0 means failure and getResultMessage() will be the failure result



Events

The following are the Events REST APIs:

- [Get Events, page -97](#)
- [Get Accounting, page -98](#)
- [Get Forwarders, page -99](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Events

Resource Name /health/events

Description Enables you to get events data

https Method GET

URL https://dcnm-ip/fm/fmrest/health/events

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: String

Attribute Name	Type	Description
	ServerResponse	Array of DBEntryDO Objects

Get Accounting

Resource Name /health/accounting

Description Enables you to get accounting data.

https Method GET

URL https://dcnm-ip/fm/fmrest/health/accounting

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: String

Attribute Name	Type	Description
	ServerResponse	Array of DBEntryDO Objects

Get Forwarders

Resource Name /dbadmin/getEventForwarders

Description Enables you to get event forwarder list.

https Method GET

URL https://dcnm-ip/fm/fmrest/dbadmin/getEventForwarders

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value

Format: JSON

Type: String

Attribute Name	Type	Description
Parsed JSON string	String	Array of DBEntryDO Objects

Image Management

The following are the Image Management REST APIs:

- [Get valid switches for Image Management, page -106](#)
- [Trigger compatibility check, page -107](#)
- [Get compatibility check/image upgrade status, page -108](#)
- [Trigger Image upgrade check, page -109](#)
- [Get all upgrade and compatibility check jobs, page -110](#)
- [Activate a SMU package, page -111](#)
- [Deactivate a SMU package, page -112](#)
- [Get all active SMU packages for a switches, page -113](#)
- [Get GIR status for all the switches, page -114](#)
- [Toggle GIR status for all the switches, page -115](#)

Mandatory Field Class table

filter

Attributes	Type	Require	Description
entity	String	Mandatory	The value must be ethswitch , to get switch details
filterAttributes	HashMap<String,String>	Mandatory	Name value pair for filtering services. For Image image management key value pair will be "capability" and "ISSU" respectively.

job

Attributes	Type	Require	Description
saverunningConfig	boolean	Optional	Saves the running configuration to switch, if value is true .
concurrentExec	boolean	Mandatory	Upgrade occurs concurrently, if the value is true .
executeImmediately	boolean	Mandatory	Upgrade begins immediately if the value is true . The upgrade process will be scheduled for a later time.
comments	String	Optional	Any comments for the upgrade task
jobType	integer	Mandatory	0 for image upgrade, 2 for compatibility check
id	integer	Mandatory	-1 for new job creation. Job Id of the compatibility job for upgrading image.
taskList	List<ImageInstallTask>	Mandatory	Information on images for different devices.

imageInstallTask

Attributes	Type	Require	Description
kickStartImage	String	Mandatory	Kickstart image for compatibility check or upgrade.
systemImageFile	String	Mandatory	System image for compatibility check or upgrade.
installLog	String	Optional	Contains install log from the device
compatibility_log	String	Optional	Contains compatibility check log from the device
statusDescr	String	Optional	Description on the status.
compatibility_desc	String	Optional	-1 for new job creation. Job Id of the compatibility job for upgrading image.
strStatus	String	Optional	Status of the image upgrade task.

Attributes	Type	Require	Description
strCompStatus	String	Optional	Status of the compatibility check task.
jobId	Integer	Mandatory	Job Id of the parent Job. -1 initially when the job is not yet created.
scheduledTime	Timestamp	Optional	Timestamp at which image upgrade needs to be triggered.
completedTime	Timestamp	Optional	Time at which the compatibility check or image upgrade is completed.
parallelLineCardUpgrade	boolean	Optional	True when the line cards needs to be upgraded parallel.
id	long	Mandatory	-1 initially. Task id once the job is created.
ethswitch_id	long	Mandatory	Ethswitch id for the switch.
hostName	String	Mandatory	Host name of the device
ipAddress	String	Mandatory	IP address of the device
platform	String	Mandatory	Nexus Platform of the device
version	String	Mandatory	NXOS version of the device
serverName	String	Optional	Server from where images needs to be installed.
type	Enum	Optional	Type of the image source. It can be either SERVER or DEVICE.
status	Enum	Optional	Status of image upgrade
compatibility_status	Enum	Optional	Status of compatibility check.

SMUInstallTask

Attributes	Type	Require	Description
packageName	String	Mandatory	Name of the SMU package. Comma seperated in case of multiple packages.
ipAddress	String	Mandatory	IP Address of the device.
statusDescr	String	Optional	Description for the status
type	Enum	Optional	"DEVICE" when the SMU package is on the device. "SERVER" if its on remote server.
serverName	String	Optional	Name of the server from where the image needs to be installed.
platform	String	Mandatory	Platform of the device.
hostName	String	Mandatory	Hostname of the device.
completedTime	TimeStamp	Optional	Time at which SMU installation completes.
id	long	Mandatory	-1 while trigerring SMU.
ethSwitch_id	long	Mandatory	Switch id from db.
status	Enum	Optional	Status of SMU task
jobtype	integer	Mandatory	0 for SMU install and 1 for uninstallation.

SMUInfo

Attributes	Type	Require	Description
switch_id	long	Mandatory	Ethswitch ID of the switch.
packages	Set<String>	Mandatory	SMU packages installed on the switch

GIRInfo

Attributes	Type	Require	Description
switch_id	long	Mandatory	Ethswitch ID of the switch.
bMaintenanceMode	boolean	Mandatory	True if switch is in maintenance mode.
maintenanceMode	String	Mandatory	Indicates of the switch is in isolate or shut down mode. Other wise NA
bSuccess	boolean	Optional	True if the system mode change is successful.
statusDesc	String	Mandatory	Description of the status
hostName	String	Mandatory	Hostname of the device
platform	String	Mandatory	Platform of the device
ipAddress	String	Mandatory	IP address of the device

GIRInfoList

Attributes	Type	Require	Description
girList	List<GIRInfo>	Mandatory	List of GIRInfo

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get valid switches for Image Management

Resource Name /inventory/switches/

Description Returns all valid switches that are qualified for image upgrade.

https Method POST

URL https://dcnm-ip/fm/fmrest/inventory/switches/

Parameter

Parameter	Type	Description
filter	O	Filter Object

Return Value Format: JSON
Type: List of Object

Attribute Name	Type	Description
Response	O	Response Object with switch information in string.

Trigger compatibility check

Resource Name /imagemanagement/job

Description Triggers compatibility check on the device and returns the job ID

https Method POST

URL https://dcnm-ip/fm/fmrest/imagemanagement/job

Parameter

Parameter	Type	Description
saverunningConfig	boolean	Saves the running configuration to switch if value is true.
concurrentExec	boolean	Upgrade will happen concurrently if the value is true.
executeImmediately	boolean	Upgrade will happen immediately if true. Otherwise will be scheduled.
comments	string	Any comments for the upgrade task.
jobType	integer	0 for image upgrade, 2 for compatibility check
id	integer	-1 for new job creation. Job Id of the compatibility job for upgrading image.
taskList	List<ImageInstallTask>	Information on images for different devices.

Return Value Format: JSON

Type: Long

Attribute Name	Type	Description
		Job ID of the new compatibility task

Get compatibility check/image upgrade status

Resource Name /imagemanagement/job/{Job-id}

Description Gets the compatibility check status

https Method GET

URL https://dcnm-ip/fm/fmrest/imagemanagement/job/{job-id}

Parameter

Parameter	Type	Description
—		

Return Value Format: JSON

Type: ImageInstallTaskList

Attribute Name	Type	Description
Response	O	Response Object with Job status as List of ImageInstallTask.

Trigger Image upgrade check

Resource Name /imagemanagement/job

Description Triggers compatibility check on the device and returns the job ID

https Method POST

URL https://dcnm-ip/fm/fmrest/imagemanagement/job

Parameter

Parameter	Type	Description
Job	O	Job Object

Return Value

Format: JSON

Type: Long

Attribute Name	Type	Description
Response	O	Response Object with Job Id information as long.

Get all upgrade and compatibility check jobs

Resource Name /imagemanagement/jobs

Description Gets the compatibility check status

https Method GET

URL https://dcnm-ip/fm/fmrest/imagemanagement/jobs

Parameter

Parameter	Type	Description
—		

Return Value Format: JSON

Type: List of Job

Attribute Name	Type	Description
Response	O	Response Object with list of Job object.

Activate a SMU package

Resource Name /smu/activate

Description Installs patch

https Method POST

URL https://dcnm-ip/fm/fmrest/smu/activate

Parameter

Parameter	Type	Description
SMUInstallJob	O	List of SMUInstallTask

Return Value

Format: JSON

Type: smuTask

Attribute Name	Type	Description
Response	O	Response Object with list of SMUInstallTask

Deactivate a SMU package

Resource Name /smu/deactivate

Description Installs patch

https Method POST

URL https://dcnm-ip/fm/fmrest/smu/deactivate

Parameter

Parameter	Type	Description
SMUInstallJob	O	List of SMUInstallTask

Return Value Format: JSON
Type: smuTask

Attribute Name	Type	Description
Response	O	Response Object with list of SMUInstallTask

Get all active SMU packages for a switches

Resource Name /smu/getactive

Description Gets the active SMU packages for a switch

https Method POST

URL https://dcnm-ip/fm/fmrest/imagemanagement/jobs

Parameter

Parameter	Type	Description
EthSwitchList	O	List of all Ethernet Switch IDs

Return Value

Format: JSON

Type: List of SMUInfo

Attribute Name	Type	Description
Response	O	Response Object with list of SMUInfo

Get GIR status for all the switches

Resource Name /imagemanagement/allsystemmode

Description Gets the maintenance status for all the switches

https Method GET

URL https://dcnm-ip/fm/fmrest/imagemanagement/allsystemmode

Parameter

Parameter	Type	Description
—		

Return Value Format: JSON

Type: List of GIRInfo

Attribute Name	Type	Description
Response	O	Response Object with list of GIRInfo

Toggle GIR status for all the switches

Resource Name /imagemanagement/toggle

Description Gets the maintenance status for all the switches

https Method POST

URL https://dcnm-ip/fm/fmrest/imagemanagement/allsystemmode

Parameter

Parameter	Type	Description
GIRInfoList	O	List of GIRInfo

Return Value

Format: JSON

Type: List of GIRInfo

Attribute Name	Type	Description
Response	O	Response Object with list of GIRInfo

Inventory

The following are the Inventory REST APIs:

- [Get Fabrics](#), page -119
- [Get Switches](#), page -120
- [Get all End Ports](#), page -121
- [Get all End Ports Performance](#), page -122
- [Get all San Ethernet Ports](#), page -123
- [Get San Isls](#), page -124
- [Get Modules](#), page -125
- [Get VSANs](#), page -126
- [Get Licenses](#), page -127
- [Get Host/Storage Enclosed List](#), page -128
- [Get Port Groups](#), page -129
- [Get Regular Zones](#), page -130
- [Get all Lan ISL](#), page -131
- [Get all LAN Ethernet Ports](#), page -132
- [Get LAN Devices](#), page -133
- [Get Storage Providers](#), page -134
- [Get Storage Providers worker status](#), page -136
- [Get Virtual Centers](#), page -138

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Fabrics

Resource Name /san/ getFabricWithSnmptail_fromDB

Description Enables to discover fabrics.

https Method GET

URL https://dcnm-ip/fm/fmrest/san/getFabricWithSnmptail_fromDB

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
Rst.toJSONString()	A	Array of DBEntryDO Objects

Get Switches

Resource Name /inventory/switches

Description Get all discovered SAN switches

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/switches

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of SwitchDO objects

Get all End Ports

Resource Name /inventory/endports

Description Get all end ports

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/endports

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all EndPortDO objects

Get all End Ports Performance

Resource Name /statistics/endportStat

Description Get all end ports counters

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/endportStat

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all StatisticsDataDO objects

Get all San Ethernet Ports

Resource Name /statistics/SanGigEStat

Description Get all Ethernet ports under SAN

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/SanGigEStat

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all StatisticsDataDO objects

Get San Isls

Resource Name /statistics/sanIslStat

Description Get all Isls

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/sanIslStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all StatisticsDataDO objects

Get Modules

Resource Name /inventory/modules

Description Get all modules

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/modules

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all DBEntryDO objects

Get VSANs

Resource Name /inventory/vsans

Description Get all VSANs.

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/vsans

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all VsanDO Objects

Get Licenses

Resource Name /inventory/licenses

Description Enables you to get all licenses

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/licenses

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
License	A	List of all License Objects

Get Host/Storage Enclosed List

Resource Name /statistics/portGroupStat

Description Get the Host's enclosure List or Storage Enclosure list

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/portGroupStat

Parameter

Parameter	Type	Description
type	string	Type of the object Host: type=Host%20Enclosures Storage: type=Storage%20Enclosures

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of StatisticsDataDO objects

Get Port Groups

Resource Name /statistics/portGroupStat

Description Get the group groups

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/portGroupStat

Parameter

Parameter	Type	Description
type	string	Type of the object type=Port%20Groups

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of StatisticsDataDO objects

Get Regular Zones

Resource Name /inventory/zones

Description Get the regular zones

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/zones

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of ZoneDO objects

Get all Lan ISL

Resource Name /statistics/lanIslstat

Description Get all ISLs under LAN

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/lanIslstat

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of all StatisticsDataDO objects

Get all LAN Ethernet Ports

Resource Name /statistics/LanEthernetStat

Description Get all Ethernet ports under LAN

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/LanEthernetStat

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	List of StatisticsDataDO objects

Get LAN Devices

Resource Name /san/getEthSwitchAll

Description Enables you to discover LAN devices

https Method GET

URL https://dcnm-ip/fm/fmrest/san/getEthSwitchAll

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	string	DBEntryDO.toJSONString()

Get Storage Providers

Resource Name /storage/getSmisProviders

Description Get all discovered SMIS Storage providers

https Method GET

URL https://dcnm-ip/fm/fmrest/storage/getSmisProviders

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Rst	string	SMISProviderListDO.toJSONString(), SMISProviderListDO object which is an array of SMISProviderDO. SMISProviderDO is dbId:long; provId:int; fmServer:String; ns:String; interopns:String; url:String; username:String; port:int; secure:boolean; vendor:String; select:String; status:String; managedstatus:String; lastUpdated:String; version:String;

Get Storage Providers worker status

Resource Name /storage/getWorkerStatus

Description Get all discovered SMIS Storage worker status

https Method GET

URL https://dcnm-ip/fm/fmrest/storage/getWorkerStatus

Parameter

Parameter	Type	Description
smisWorker	SMISProviderWorkerDO	A array of SMIS provider. SMISProviderWorkerDO - providerList:SMISProviderDO[], password:String, fmserver:String. Note SMISProviderDO is dbId:long; provId:int; fmServer:String; ns:String; interopns:String; url:String; username:String; port:int; secure:boolean; vendor:String; select:String; status:String; managedstatus:String; lastUpdated:String; version:String;

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Rst.toJSONString()	string	SMISProviderListDO.toJSONString(), SMISProviderListDO object which is an array of SMISProviderDO. SMISProviderDO is dbId:long; provId:int; fmServer:String; ns:String; interopns:String; url:String; username:String; port:int; secure:boolean; vendor:String; select:String; status:String; managedstatus:String; lastUpdated:String; version:String;

Get Virtual Centers

Resource Name /san/getVirtualCenters

Description Get all discovered Virtual Centers

https Method GET

URL https://dcnm-ip/fm/fmrest/san/getVirtualCenters

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	string	DBEntryDO.toJSONString()

Multiple Mobility Domain with VLAN Translation

The following are the Multiple Mobility Domain with VLAN Translation REST APIs:

- [List Mobility Domains with VLANs, page -141](#)
- [Get Mobility Domain with VLANs, page -142](#)
- [Create Mobility Domain with VLANs, page -143](#)
- [Update Mobility Domain with VLANs, page -144](#)
- [Delete Mobility Domain with VLANs, page -145](#)
- [Get Translate VLAN Settings, page -146](#)
- [Update Translate VLAN Settings, page -147](#)
- [Delete Translate VLAN Settings, page -148](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

List Mobility Domains with VLANs

Resource Name /rest/settings/mobility-domains

Description List mobility domains with VLANs.

https Method GET

URL https://dcnm-ip/rest/settings/mobility-domains

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
mobilityDomains	O	Return all the mobility domain names with their translated VLAN ranges.

Get Mobility Domain with VLANs

Resource Name /rest/settings/mobility-domains/{mobility-domain}

Description Get mobility domain with VLANs.

https Method GET

URL https://dcnm-ip/rest/settings/mobility-domains/{mobility-domain}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
mobilityDomains	O	Return all the mobility domain names with their translated VLAN ranges.

Create Mobility Domain with VLANs

Resource Name /rest/settings/mobility-domains

Description Create mobility domain with VLANs.

https Method POST

URL https://dcnm-ip/rest/settings/mobility-domains

Parameter

Parameter	Type	Description
mobilityDomains		Mobility domain name with translated VLAN ranges.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Update Mobility Domain with VLANs

Resource Name /rest/settings/mobility-domains/{mobility-domain}

Description Update mobility domain with VLANs.

https Method PUT

URL https://dcnm-ip/rest/settings/mobility-domains/{mobility-domain}

Parameter

Parameter	Type	Description
mobilityDomains	O	Mobility domain name with translated VLAN ranges.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete Mobility Domain with VLANs

Resource Name /rest/settings/mobility-domains/{mobility-domain}

Description Delete mobility domain with VLANs.

https Method DELETE

URL https://dcnm-ip/rest/settings/mobility-domains/{mobility-domain}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get Translate VLAN Settings

Resource Name /rest/settings/general

Description Get Fabric Automation translate VLAN settings.

https Method GET

URL https://dcnm-ip/rest/settings/general

Parameter

Parameter	Type	Description
settings	O	Return all the Fabric Automation settings, including translate VLAN related information.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Update Translate VLAN Settings

Resource Name /rest/settings/general

Description Update Fabric Automation translate VLAN settings.

https Method PUT

URL https://dcnm-ip/rest/settings/general

Parameter

Parameter	Type	Description
settings	O	Fabric Automation settings, including translate VLAN related information.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete Translate VLAN Settings

Resource Name /rest/settings/general

Description Delete Fabric Automation translate VLAN settings.

https Method PUT

URL https://dcnm-ip/rest/settings/general

Parameter

Parameter	Type	Description
settings	O	Fabric Automation settings, including translate VLAN related information.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Multiple Orchestrator Support

The following are the Multiple Orchestrator Support REST APIs:

- [List All the Orchestrators with Segment Id Ranges, page -151](#)
- [Get Orchestrator Segment Id Ranges, page -152](#)
- [Create Orchestrator Segment Id Ranges, page -153](#)
- [Update Orchestrator Segment Id Ranges, page -154](#)
- [Delete Orchestrator Segment Id Ranges, page -155](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

List All the Orchestrators with Segment Id Ranges

Resource Name /settings/segmentid-ranges

Description List all the orchestrators with Segment ID Ranges.

https Method GET

URL https://dcnm-ip/rest/settings/segmentid-ranges

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
orchestratorSegmentIds	O	Return all the orchestrators with their segment Id ranges.

Get Orchestrator Segment Id Ranges

Resource Name /settings/segmentid-ranges/{orchestrator-id}

Description Get orchestrator segment ID ranges.

https Method GET

URL https://dcnm-ip/rest/settings/segmentid-ranges/{orchestrator-id}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
orchestratorSegmentIds	O	Return orchestrator with segment Id ranges.

Create Orchestrator Segment Id Ranges

Resource Name /settings/segmentid-ranges

Description Create orchestrator segment ID ranges.

https Method POST

URL https://dcnm-ip/rest/settings/segmentid-ranges

Parameter

Parameter	Type	Description
orchestratorSegmentIds	O	Orchestrator with segment ID ranges

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
orchestratorSegmentIds	O	Orchestrator with segment ID ranges

Update Orchestrator Segment Id Ranges

Resource Name /settings/segmentid-ranges/{orchestrator-id}

Description Update orchestrator segment ID ranges.

https Method PUT

URL https://dcnm-ip/rest/settings/segmentid-ranges/{orchestrator-id}

Parameter

Parameter	Type	Description
orchestratorSegmentIds	O	Orchestrator with segment ID ranges

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
orchestratorSegmentIds	O	Orchestrator with segment ID ranges

Delete Orchestrator Segment Id Ranges

Resource Name /settings/segmentid-ranges/{orchestrator-id}

Description Delete orchestrator segment ID ranges.

https Method DELETE

URL https://dcnm-ip/rest/settings/segmentid-ranges/{orchestrator-id}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Performance

The following are the Performance REST APIs:

- [Get Access Port Utilization for LAN Switch, page -159](#)
- [Get CPU, page -160](#)
- [Get End Port Utilization for SAN Fabric, page -161](#)
- [Get Link Utilization for LAN Switch, page -162](#)
- [Get Link Utilization for SAN Switch, page -163](#)
- [Get Memory, page -164](#)
- [Get NPV Link Utilization for SAN Switch, page -165](#)
- [Get Traffic, page -166](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Access Port Utilization for LAN Switch

Resource Name /statistics/ethernetStat

Description Enables you to get interface access port) utilization details.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/ethernetStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get CPU

Resource Name /statistics/cpuStat

Description Enables you to get switch CPU usage.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/cpuStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get End Port Utilization for SAN Fabric

Resource Name /statistics/endportStat

Description Enables you to get San End Port utilization details.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/endportStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get Link Utilization for LAN Switch

Resource Name /statistics/lanIslStat

Description Enables you to get link utilization details for LAN switch

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/lanIslStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get Link Utilization for SAN Switch

Resource Name /statistics/sanIslStat

Description Enables you to get FC link utilization details.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/sanIslStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get Memory

Resource Name /statistics/memoryStat

Description Enables you to get switch memory usage data.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/memoryStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get NPV Link Utilization for SAN Switch

Resource Name /statistics/npvlinksStat

Description Enables you to get FC link utilization details.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/npvlinksStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Get Traffic

Resource Name /statistics/bandwidthStat

Description Enables you to get switch traffic data.

https Method GET

URL https://dcnm-ip/fm/fmrest/statistics/bandwidthStat

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
	ServerResponse	Array of StatisticsDataDO Objects

Power On Auto Provisioning (POAP)

The following are the Power On Auto Provisioning (POAP) REST APIs:

- [List Servers, page -169](#)
- [Create a Server, page -170](#)
- [Get Servers, page -171](#)
- [Update Servers, page -172](#)
- [Delete Servers, page -173](#)
- [List Switch Definitions, page -174](#)
- [Create Switch Definitions, page -175](#)
- [Publish Switch Definitions, page -176](#)
- [Get a Switch Definition, page -177](#)
- [Update a Switch Definition, page -178](#)
- [Delete a Switch Definition, page -179](#)
- [Get a POAP Template, page -180](#)
- [Create a POAP Template, page -181](#)
- [Update a POAP Template, page -182](#)
- [Delete a POAP Template, page -183](#)
- [Get All Published Templates, page -184](#)
- [Generate Template Startup Config, page -185](#)
- [Get Group Navigation, page -187](#)
- [Perform Shallow Discovery, page -188](#)
- [Create Multiple POAP Definitions, page -189](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

List Servers

Resource Name /poap/servers

Description List POAP image/config servers

https Method GET

URL https://dcnm-ip/rest/poap/servers
https://dcnm-ip/rest/poap/servers?detail=true

Parameter

Parameter	Type	Description

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
poap-servers		By default, a list of POAP image/config server names is displayed. If "detail=true" a list of POAP image/config server-objects including server-name and URI is displayed.

Create a Server

Resource Name /poap/servers

Description Create a new POAP image/config server

https Method POST

URL https://dcnm-ip/rest/poap/servers

Parameter

Parameter	Type	Description
poap-servers		POAP image/config server-object including server-name, URI, hostname/ipaddress, path, username and password.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
poap-server-name		POAP image/config server name.

Get Servers

Resource Name /poap/servers/server-name

Description Get the POAP image/config servers

https Method GET

URL https://dcnm-ip/rest/poap/servers/server-name

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
poap-server		POAP image/config server-object including server-name and URI.

Update Servers

Resource Name /poap/servers/server-name

Description Update the POAP image/config servers

https Method PUT

URL https://dcnm-ip/rest/poap/servers/server-name

Parameter

Parameter	Type	Description
poap-server		POAP image/config-server-object including server-name,hostname/ipaddress, path,username and password.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete Servers

Resource Name /poap/servers/server-name

Description Delete the POAP image/config servers

https Method DELETE

URL https://dcnm-ip/rest/poap/servers/server-name

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

List Switch Definitions

Resource Name /poap/switch-definitions

Description List the POAP switch definitions

https Method GET

URL https://dcnm-ip/rest/poap/switch-definitions
 https://dcnm-ip/rest/poap/switch-definitions?detail=true
 https://dcnm-ip/rest/poap/switch-definitions?search-string=<search-string>&start-index=<start-index>&size=<size>

Parameter

Parameter	Type	Description

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description
Switch-definitions		By default, a list of serial- numbers is displayed. If "detail=true", then a list of switch-definition objects including serial-numbers, status(saved and publish later/published/saved and publishing/error), system-image, kick-start-image, image-server-uri, config-server-uri, template-name, parameter-values with a list of name, type, value corresponding to the template is displayed.

Create Switch Definitions

Resource Name /poap/switch-definitions

Description Create POAP switch definitions

https Method POST

URL https://dcnm-ip/rest/poap/switch-definitions

Parameter

Parameter	Type	Description
Switch-definitions		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name, poap-settings-name, parameter-values with a list of name, type, value corresponding to the template , and publish=true/false.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
switch-numbers		List of serial numbers.

Publish Switch Definitions

Resource Name /poap/published-switch-definitions/{serial-number}

Description Publish list of switch-definitions to the Repository server.

https Method POST

URL https://dcnm-ip/rest/poap/published-switch-definitions/{serial-number}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get a Switch Definition

Resource Name /poap/switch-definitions/{serial-number}

Description Get a switch definition.

https Method GET

URL https://dcnm-ip/rest/poap/switch-definitions/{serial-number}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
switch-definition		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name and parameter-values with a list of name, type, value corresponding to the template .

Update a Switch Definition

Resource Name /poap/switch-definitions/serial-number

Description Update a switch-definition.

https Method PUT

URL https://dcnm-ip/rest/poap/switch-definitions/{ serial-number }

Parameter

Parameter	Type	Description
switch-definition		Displays a list of serial-numbers, system-image, kick-start-image, image-server-uri, config-server-uri, template-name and parameter-values with a list of name, type, value corresponding to the template , and publish=true/false.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a Switch Definition

Resource Name /poap/switch-definitions/serial-number

Description Delete a switch-definition.

https Method DELETE

URL https://dcnm-ip/rest/poap/switch-definitions/{serial-number}

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Get a POAP Template

Resource Name /poap/templates/{template-name}

Description Get a POAP template.

https Method GET

URL https://dcnm-ip/rest/poap/templates/{template-name}

Parameter

Parameter	Type	Description
Serial-number	S	Device serial-number

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Poap-template	O	Poap template object

Create a POAP Template

Resource Name /poap/templates

Description Create a POAP template.

https Method POST

URL https://dcnm-ip/rest/poap/templates

Parameter

Parameter	Type	Description
Poap-template	O	Poap template object

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
Poap-template-name	O	Poap template name

Update a POAP Template

Resource Name /poap/templates/{template-name}

Description Update a POAP template.

https Method PUT

URL https://dcnm-ip/rest/poap/templates/{template-name}

Parameter

Parameter	Type	Description
Poap-template	O	Poap template object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a POAP Template

Resource Name /poap/templates/{template-name}

Description Delete a POAP template.

https Method POST

URL https://dcnm-ip/rest/poap/templates/{template-name}

Parameter

Parameter	Type	Description
Poap-template-name	S	Poap template name

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get All Published Templates

Resource Name /poap/templates?published=true

Description Get all the published templates.

https Method GET

URL https://dcnm-ip/rest/templates?published=true

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
templates	O	Returns all the published template names, if published=true. Returns all the templates if published=false.

Generate Template Startup Config

Resource Name	/templates/populate-template/{template-name}
Description	Generates template for startup config.
https Method	POST
URL	https://dcnm-ip/rest/templates/populate-template/{template-name}

Example

Request Body:

```
{
  "templateParams":{
    "SWITCH_NAME":"r-123",
    "ADMIN_USERNAME":"admin",
    "ADMIN_PASSWORD":"test123",
    "MGMT_IP":"10.0.0.0",
    "MGMT_PREFIX":"24",
    "DEFAULT_GATEWAY":"10.0.0.1",
    "CONSOLE_TIMEOUT":"0",
    "CONSOLE_SPEED":"9600"
  }
}
```

Response Body:

```
{
  "startupConfig":"hostname r-123\nno password strength-check\nusername admin password
test123 role network-admin\nnsnmp-server user admin network-admin auth md5 test123 priv
test123 \n\nvrf context management\n ip route 0.0.0.0/0 10.0.0.1\n\ninterface mgmt0\n vrf
member management\n no cdp enable\n no lldp transmit \n no lldp receive \n ip address
10.0.0.0/24\n no shutdown\n\nline console\n\n exec-timeout 0\n"
}
```

Parameter

Parameter	Type	Description
templateParams	O	<p>Template parameters with values. You will get the templateParams in get template data API response. It returns the template parameters with default values.</p> <p>The object should contain key-value pairs whose keys align with the Parameters field in the Get Configuration Template method.</p>

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
startupConfig	S	Return startup config

Get Group Navigation

Resource Name /templates/groups

Description Get all the groups.

https Method GET

URL https://dcnm-ip/rest/templates/groups

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
memDbId, name, navType	S	Return group/scope details

Perform Shallow Discovery

Resource Name /templates/perform-shallow-discovery

Description All the devices provided in payload will be discovered into DCNM.

https Method POST

URL https://dcnm-ip/rest/templates/perform-shallow-discovery

Parameter

Parameter	Type	Description
POAP	A <i>sushs: needs review</i>	Serial Number, Management IP, Lan Group, User Name and Password need to provide in payload.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Create Multiple POAP Definitions

Resource Name /poap/definitions

Description Simple and Single API to create multiple POAP definitions w/ discovery.

if you use this single API, the following separate APIs are not required.

- Create the switch definition without template— /rest/poap/switch-definitions (POST)
- Generate the startup configuration— /rest/templates/populate-template/<template-name> (POST)
- Associate the template and startup configuration with the switch definition— /rest/poap/templates (POST)
- Publish the switch definition— /rest/poap/published-switch-definitions/<serial-number> (POST)
- Discover the switch in Cisco DCNM— /rest/templates/perform-shallow-discovery (POST)

https Method POST

URL https://dcnm-ip/rest/poap/definitions

Parameter

Parameter	Type	Description
Request Payload	A	Array of switchDetails and templateDetails.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Response Object	O	POAP Device Serial Number and the Status

Example

The following example shows how to create two POAP definitions using this API:

```
Request: {
  "switchDetails": [
    {
      "serialNumber": "SerialNo1",
      "switchName": "Switch-1",
      "systemImageName": "sys.bin",
      "kickstartImageName": "kick.bin",
      "imageServerId": 1,
    }
  ]
}
```

```

        "configServerId":1,
        "deviceType":"N9K",
        "mgmtIp":"80.0.0.10",
        "username":"admin",
        "password":"cisco123",
        "lanGroup":2,
        "publish":"true"
    },
    {
        "serialNumber":"SerialNo2",
        "switchName":"Switch-2",
        "systemImageName":"sys.bin",
        "kickstartImageName":"kick.bin",
        "imageServerId":1,
        "configServerId":1,
        "deviceType":"N9K",
        "mgmtIp":"80.0.0.11",
        "username":"admin",
        "password":"cisco123",
        "lanGroup":2,
        "publish":"true"
    }
],
"templateDetails":[
    {
        "templateParams":{
            "SWITCH_NAME":"Switch-1",
            "ADMIN_USERNAME":"admin",
            "ADMIN_PASSWORD":"cisco123",
            "MGMT_IP":"80.0.0.10",
            "MGMT_PREFIX":"24",
            "DEFAULT_GATEWAY":"80.0.0.1",
            "CONSOLE_TIMEOUT":"0",
            "CONSOLE_SPEED":"9600"
        },
        "templateName":"Example_Simple_v6"
    },
    {
        "templateParams":{
            "SWITCH_NAME":"Switch-2",
            "ADMIN_USERNAME":"admin",
            "ADMIN_PASSWORD":"cisco123",
            "MGMT_IP":"80.0.0.11",
            "MGMT_PREFIX":"24",
            "DEFAULT_GATEWAY":"80.0.0.1",
            "CONSOLE_TIMEOUT":"0",
            "CONSOLE_SPEED":"9600"
        },
        "templateName":"Example_Simple_v6"
    }
]
}

```

Response:

```

{
    "SerialNo2": "Success",
    "SerialNo1": "Success"
}

```

Reports

The following are the Reports REST APIs:

- [Get Report View by Selection, page -191](#)
- [Get Report Jobs, page -192](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get Report View by Selection

Resource Name /report/reportview

Description Enables you to get a report view by individual selection

https Method GET

URL https://dcnm-ip/fm/fmrest/report/reportview

Parameter

Parameter	Type	Description
group	S	URI Parameter
selection	S	URI Parameter
reportFilter	S	URI Parameter
sortDownStr	S	URI Parameter
userName	S	URI Parameter
isAdmin	S	URI Parameter

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ReportDO	O	Report Object

Get Report Jobs

Resource Name /report/reportjobs

Description Enables you to get a report of Jobs

https Method GET

URL https://dcnm-ip/fm/fmrest/report/reportjobs

Parameter

Parameter	Type	Description
sortDownStr	S	URI Parameter
userName	S	URI Parameter
isAdmin	S	URI Parameter

Return Value Format: JSON

Type: Long

Attribute Name	Type	Description
SortedReportJobDO	O	Sorted Report for Jobs Object

Templates

The following are the Template REST APIs:

- [Get a Template, page -195](#)
- [Get All Template, page -196](#)
- [Create a Config Template, page -197](#)
- [Modify a Config Template, page -198](#)
- [Delete a Config Template, page -200](#)
- [Get Populated template CLI content, page -201](#)
- [Validate a Config Template, page -202](#)
- [Get Config Template Valid Switches, page -203](#)
- [Create a Config Template Job, page -204](#)
- [Get Config Template Jobs, page -205](#)
- [Get Config Template Job detail, page -206](#)
- [Delete Config Template Job, page -207](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
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400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get a Template

Resource Name /config/templates/{template-name}

Description Get Configuration template

https Method GET

URL https://dcnm-ip/fm/fmrest/config/templates/{template-name}

Parameter

Parameter	Type	Description
templateName	S	ConfigTemplate name

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigTemplateDO	O	ConfigTemplate object

Get All Template

Resource Name /config/templates

Description Get All Configuration template

https Method GET

URL https://dcnm-ip/fm/fmrest/config/templates

Parameter

Parameter	Type	Description
filterStr	S	Used for filtering the template format is <templateField1>:<filter value1>
sortBy	S	Filed to be sorted +<filed name> for ASC and -<filed name> for DESC
items (request header)	S	Range of records to fetch (i.e. 10-20)

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigTemplateDO[]	A	Array of ConfigTemplate object
items (response header)	S	Total number of records available

Create a Config Template

Resource Name /config/templates

Description Create a Config template

https Method POST

URL https://dcnm-ip/fm/fmrest/config/templates

Parameter

Parameter	Type	Description
templateFileContent	S	ConfigTemplate file content in plain text

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
InstanceNameIdDO	O	InstanceNameId of created template

Modify a Config Template

Resource Name	/config/templates/{template-name}
Description	Modify a config template
https Method	PUT
URL	https://dcnm-ip/fm/fmrest/config/templates/{template-name}

Example

Request Body:

```
{
  "id": "Example_Simple_v7",
  "content": "##template properties \nname =Example_Simple_v7;\ndescription = Simple POAP
Template example to assign a Management IP address;\nuserDefined=
true;\nsupportedPlatforms = N3K,N5K,N5500,N5600,N6K,N9K;\ntemplateType =
POAP;\ntemplateSubType=NA;\npublished = false;\ntimestamp = 2017-05-26 23:27:05
;\n#\n##template variables\n\n# Copyright (c) 2017 by Cisco Systems, Inc.\n# All rights
reserved.\n\n@(IsSwitchName=true, UseDNSReverseLookup=true, IsMandatory=true,
Description=\"The host name of the switch [example: switch{1-3}]\", DisplayName=\"Switch
Name\")\nstring SWITCH_NAME;\n\n@(IsMandatory=true, Description=\"Administrative User
which will be used to manage this device\", DisplayName=\"Administrative
Username\")\nstring ADMIN_USERNAME{\n defaultValue=admin;\n};\n\n@(IsMandatory=true,
Description=\"Plain text password of at least 8 characters\", DisplayName=\"Administrative
Password\")\nstring ADMIN_PASSWORD;\n\n@(IsManagementIP=true, IsMandatory=true,
IsMultiplicity=true, Description=\"Mgmt0 address for this device [example:
10.10.10.10-20]\", DisplayName=\"Management IP\")\nipV4Address
MGMT_IP;\n\n@(IsMandatory=true, Description=\"Management Network Prefix\",
DisplayName=\"Management Prefix\")\ninteger MGMT_PREFIX{\n
defaultValue=%POAP.MGMT_PREFIX;\n};\n\n@(IsMandatory=true, Description=\"Default Gateway
IP address\", DisplayName=\"Default Gateway\")\nipV4Address DEFAULT_GATEWAY{\n
defaultValue=%POAP.DEFAULT_GATEWAY;\n};\n\n@(IsMandatory=true, DisplayName=\"Console
timeout\", Description=\"Enter timeout in minutes, 0 to disable\")\ninteger
CONSOLE_TIMEOUT{\n defaultValue=0;\n};\n\n@(IsMandatory=true, DisplayName=\"Console
Speed\")\ninteger CONSOLE_SPEED{\n defaultValue=9600;\n};\n#\n\n##template
content\n\nhostname $$SWITCH_NAME$$\n\nno password strength-check\nusername
$$ADMIN_USERNAME$$ password $$ADMIN_PASSWORD$$ role network-admin\n\nsnmp-server user
$$ADMIN_USERNAME$$ network-admin auth md5 $$ADMIN_PASSWORD$$ priv $$ADMIN_PASSWORD$$
\n\nvrf context management\n ip route 0.0.0.0/0 $$DEFAULT_GATEWAY$$\n\ninterface mgmt0\n
vrf member management\n no cdp enable\n no llpd transmit \n no llpd receive \n ip address
$$MGMT_IP$$/$$MGMT_PREFIX$$\n no shutdown\n\nline console\nif( $$CONSOLE_TIMEOUT$$ !=
\"30\" ){ \n exec-timeout $$CONSOLE_TIMEOUT$$\n}\nif( $$CONSOLE_SPEED$$ != \"9600\" ){ \n
speed $$CONSOLE_SPEED$$\n}\n#\n\n"}
}
```



Note

The **id** attribute must match with the template-name in the URL.

Response Body:

```
{
  "status": "Template modification successful"
}
```

Parameter

Parameter	Type	Description
templateFileContent	O	ConfigTemplate file content in plain text The parameter is a JSON object data type with mandatory properties of id and content , where id is the template name and content is the modified template content.

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Delete a Config Template

Resource Name /config/templates/{template-name}

Description Delete a Config template

https Method DELETE

URL https://dcnm-ip/fm/fmrest/config/templates/{template-name}

Parameter

Parameter	Type	Description
templateName	S	ConfigTemplate name

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Get Populated template CLI content

Resource Name /config/templates/{templateName}/populate/{ deviceIP}

Description To get the CLI delivery content for the given parameter value for a template

https Method POST

URL https://dcnm-ip/fm/fmrest/config/{templateName}/populate/{deviceIP}

Parameter

Parameter	Type	Description
parametervalue	A	JSON Array of parameter values i.e [1, 'a']

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
String	S	Populated CLI commands

Validate a Config Template

Resource Name /config/templates/validate

Description To Validate a Config template before creation

https Method POST

URL https://dcnm-ip/fm/fmrest/config/templates/validate

Parameter

Parameter	Type	Description
templateFileContent	S	ConfigTemplate file content in plain text

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ReportItem[]	S	Validation result

Get Config Template Valid Switches

Resource Name /config/templates/{template-name}/switches

Description Returns all valid switches available for the template based on "supported platform" attribute there in Template.

https Method GET

URL https://dcnm-ip/fm/fmrest/config/templates/{template-name}/switches

Parameter

Parameter	Type	Description
templateName	S	Template name

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigDeliveryTaskDeviceDO []	A	Array of device objects

Create a Config Template Job

Resource Name /config/templates/jobs

Description Creates a Config template delivery job

https Method POST

URL https://dcnm-ip/fm/fmrest/config/templates/jobs

Parameter

Parameter	Type	Description
TemplateConfigDeliveryTaskDO	O	ConfigDeliveryTask Object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
InstanceNameIdDO	O	Task ID value

Get Config Template Jobs

Resource Name /config/templates/jobs

Description Fetches the Config template delivery jobs

https Method GET

URL https://dcnm-ip/fm/fmrest/config/templates/jobs

Parameter

Parameter	Type	Description
status	S	Could be any of "not started/in progress/completed"

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigDeliveryTaskDO []	A	Array of ConfigDeliveryTask

Get Config Template Job detail

Resource Name /config/templates/jobs/{jobID}

Description Fetches the Config template delivery job with execution details

https Method GET

URL https://dcnm-ip/fm/fmrest/config/templates/jobs/{jobID}

Parameter

Parameter	Type	Description

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
ConfigDeliveryTaskDO []	A	Array of ConfigDeliveryTask

Delete Config Template Job

Resource Name /config/templates/jobs/{job-id}

Description Deletes the Config template delivery jobs

https Method DELETE

URL https://dcnm-ip/fm/fmrest/config/templates/jobs/{job-id}

Parameter

Parameter	Type	Description
jobID	S	ID of the ConfigDeliveryTask

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description

Topology

The following are the Topology REST APIs:

- [Get a Topology, page -209](#)
- [Get a Vpc Topology, page -210](#)
- [Override Switch Role, page -211](#)
- [Revert Switch Role, page -212](#)
- [Get Topology Tags, page -213](#)
- [Fetch Tag, page -214](#)
- [Create Tag, page -215](#)
- [Delete Tags, page -216](#)
- [VLAN Search, page -217](#)
- [OTV Topology, page -218](#)
- [OTV Vlans, page -219](#)
- [VxLan VTEPs, page -220](#)
- [VxLan VNIs, page -221](#)
- [VxLan Multicast, page -222](#)
- [Switch VxLan Details, page -223](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

Status Code	Status	API's HTTPS Method or HTTPS Method
200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

Get a Topology

Resource Name /topology

Description Enables to get a topology

https Method GET

URL https://dcnm-ip/fm/fmrest/topology

Parameter

Parameter	Type	Description
NA	NA	NA

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Topology	O	Topology Object

Get a Vpc Topology

Resource Name /topology/vpc

Description Enables to get a VPC topology

https Method GET

URL https://dcnm-ip/fm/fmrest/topology/vpc

Parameter

Parameter	Type	Description
vpcDbId	long @QueryParam	VPC database identifier

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Topology	O	Topology Object

Override Switch Role

Resource Name topology/role/{ethSwitchId}

Description Switch override is used by the topology so that you can specify which position to render a node at. This API is used to change the role or override the role of the Switch. It has a default value of -1.

https Method PUT

URL https://dcnm-ip/fm/fmrest/topology/role/

Parameter

Parameter	Type	Description
ethSwitchId	long	Switch ID

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
NA	NA	NA

Revert Switch Role

Resource Name /topology/role/{ethSwitchId}

Description Reverts the role of the switch to its default role.

https Method DELETE

URL https://dcnm-ip/fm/fmrest/topology/role/

Parameter

Parameter	Type	Description
ethSwitchId	long @PathParam	Switch ID

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
NA	NA	NA

Get Topology Tags

Resource Name /topology/tags/{definedType}

Description Enables you to get all topology tags

https Method GET

URL https://dcnm-ip/fm/fmrest/topology/{definedType}

Parameter

Parameter	Type	Description
definedType	S @PathParam	Enums (USER or SYSTEM)
idsToFetch	O	IntegerList of ids to fetch

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
tags	A	A set of all requested tags

Fetch Tag

Resource Name /topology/tags/{id}

Description Enables you to fetch a tag

https Method GET

URL https://dcnm-ip/fm/fmrest/topology/tags/{id}

Parameter

Parameter	Type	Description
definedType	S @PathParam	Enums (USER or SYSTEM)
type	S @QueryParam	Enums (SWITCH or LINK)
id	int @PathParam	ID to fetch

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
tags	O	Requested tag

Create Tag

Resource Name /topology/tags

Description Enables to create a tag

https Method POST

URL https://dcnm-ip/fm/fmrest/topology/tags

Parameter

Parameter	Type	Description
id	S	ID to fetch
type	S	Enums (SWITCH or LINK)
definedType	S	Enums (USER or SYSTEM)
value	S	Tag name
tag	O	Tag object

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

Delete Tags

Resource Name /topology/tags

Description Enables to delete tags

https Method DELETE

URL https://dcnm-ip/fm/fmrest/topology/tags

Parameter

Parameter	Type	Description
definedType	S @QueryParam	Enums (USER or SYSTEM)
type	S @QueryParam	Enums (SWITCH or LINK)
id	int @QueryParam	ID to fetch
tagName	S @QueryParam	Tag to delete

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description

VLAN Search

Resource Name /topology/l2vlanstp/islsondemand

Description Enables you to search for VLAN information in a group

https Method GET

URL https://dcnm-ip/fm/fmrest/topology/l2vlanstp/islsondemand

Parameter

Parameter	Type	Description
group-id	String @QueryParam	DCNM Group ID
range	String @QueryParam	Vlan range to be searched. Example: 1-10,120-150

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
L2TopologyOnDemand	O	Contains ISL and Switches for the searched VLAN range

OTV Topology

Resource Name /rest/topology/switches/otv

Description Enables to fetch OTV overlay networks

https Method GET

URL https://dcnm-ip/rest/topology/switches/otv

Parameter

Parameter	Type	Description
session-id	String @QueryParam	Token

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
Overlays	O	Contains list of OTV overlays

OTV Vlans

Resource Name /rest/topology/switches/otv/vlans

Description Enables you to fetch OTV active and inactive extended vlans for OTV edges

https Method GET

URL https://dcnm-ip/rest/topology/switches/otv/vlans-<<Edit the URL>>

Parameter

Parameter	Type	Description
session-id	String @QueryParam	Token

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
OtvVlans	A	Contains list of active and inactive extended VLANs.

VxLan VTEPs

Resource Name /rest/topology/switches/vxlan/vteps

Description Enables you to fetch all VxLan VTEPs

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan/vteps

Parameter

Parameter	Type	Description
session-id	String @QueryParam	Token

Return Value Format: JSON
Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLan VTEPs

VxLan VNIs

Resource Name /rest/topology/switches/vxlan

Description Enables you to search vteps on VNIs

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan

Parameter

Parameter	Type	Description
vni	String @QueryParam	vni
session-id	String @QueryParam	Token

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLAN VTEPs

VxLan Multicast

Resource Name /rest/topology/switches/vxlan

Description Enables you to search vteps on multicast address

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan

Parameter

Parameter	Type	Description
multicast-address	String @QueryParam	Multicast address
session-id	String @QueryParam	Token

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLAN VTEPs

Switch VxLan Details

Resource Name /rest/topology/switches/vxlan

Description Enables you to search vteps on multicast address

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan

Parameter

Parameter	Type	Description
switch-id	String @QueryParam	Switch Database ID
session-id	String @QueryParam	Token

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
VxLanData	A	Contains list of VNIs and associated parameters for switch

VxLAN

The following are the VxLAN REST APIs:

- [List all VTEPs, page -227](#)
- [Get VTEPs with VNI, page -228](#)
- [Get VTEPs with Multicast address, page -229](#)
- [Get VNI details for a VTEP, page -230](#)
- [Get active peers for a VTEP for a given VNI, page -231](#)

Status

The following table details the API Response code, status and, the HTTPS methods.

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200	OK	GET
202	Accepted	POST PUT DELETE
400	Bad Request	GET POST PUT DELETE
401	Unauthorized	GET POST PUT DELETE
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

Status Code	Status	API's HTTPS Method or HTTPS Method
405	Method Not Allowed	GET POST PUT DELETE
500	Internal Server Error	GET POST PUT DELETE

List all VTEPs

Resource Name /topology/switches/vxlan/vteps

Description List of all the VTEPs.

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan/vteps

Parameter

Parameter	Type	Description

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
VTEPs	A	List of VTEPs including attributes VTEP IP, NVE Interface and Switch ID.

Get VTEPs with VNI

Resource Name /topology/switches/vxlan?vni=<vni>

Description Get the VTEPs which have this VNI configured on them.

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan?vni=<vni>

Parameter

Parameter	Type	Description
vni	S	VxLAN Network Identifier.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
VTEPs	A	List of VTEPs configured with VNI, including attributes, multicast address, VNI status, VLAN, NVE interface, switch name and switch ID.

Get VTEPs with Multicast address

Resource Name /topology/switches/vxlan?multicast-address=<multicast-address>

Description Get VTEPs which have this multicast address configured on them.

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan?multicast-address=<multicast-address>

Parameter

Parameter	Type	Description
multicast-address	S	Multicast address configured in VxLAN.

Return Value

Format: JSON

Type: Object

Attribute Name	Type	Description
VTEPs	A	List of VTEPs configured with multicast address, including attributes, VNI, multicast address, VNI status, VLAN, NVE interface, switch name and switch ID.

Get VNI details for a VTEP

Resource Name /topology/switches/vxlan?switch-id=<switch-id>

Description Get all the VNIs configured on a VTEP with all the associated attributes.

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan?switch-id=<switch-id>

Parameter

Parameter	Type	Description
switch-id	S	VTEP switch ID, obtained by the API https://dcnm-ip/rest/topology/switches/vxlan/vteps.

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
VNI Details	A	List of all VNIs on a VTEP, with the associated Multicast Address, VNI Status, VLAN, NVE Interface, Switch Name and Switch ID.

Get active peers for a VTEP for a given VNI

Resource Name /topology/switches/vxlan/peers?switch-id=<switch-id>&vni=<vni>

Description Get the active peers for a VTEP for a given VNI.

https Method GET

URL https://dcnm-ip/rest/topology/switches/vxlan/peers?switch-id=<switch-id>&vni=<vni>

Parameter

Parameter	Type	Description
switch-id	S	VTEP switch ID, obtained by the API https://dcnm-ip/rest/topology/switches/vxlan/vteps
vni	S	VxLAN Network Identifier

Return Value Format: JSON

Type: Object

Attribute Name	Type	Description
VTEP peers	A	List of VTEP active peers for given VNI.

