



## Cisco DCNM REST API Guide 7.1.x

Cisco Dynamic Fabric Automation  
December 2014

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# Preface

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## Organization

This guide includes the following sections:

Section	Title	Description
1	DFA REST API	Describes the REST API's for Cisco Dynamic Fabric Automation.

## Conventions

This document uses the following conventions:

Convention	Indication
<b>bold</b> font	Commands and keywords and user-entered text appear in <b>bold</b> font.
<i>italic</i> font	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic</i> font.
[ ]	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.
courier	Terminal sessions and information the system displays appear in <i>courier</i> font.
< >	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.

**REVIEW DRAFT—CISCO CONFIDENTIAL****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



# 1

## CHAPTER

# Cisco Unified Fabric REST API

## Introduction

The Cisco Unified Fabric REST APIs for third party applications enables you to programmatically control Cisco Unified Fabric. 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 Unified Fabric 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 Unified Fabric. 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 Unified Fabric 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 Unified Fabric. For an animated description of the Unified Fabric architecture and work flow refer the following link [https://www.youtube.com/watch?v=MNnv2Y\\_k6EY](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 https.

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 -7
- “Cable Plan” section on page -33
- “DCI” section on page -45
- “DHCP” section on page -65
- “Multiple Orchestrator Support” section on page -81
- “Multiple Mobility Domain with VLAN Translation” section on page -71
- “Power On Auto Provisioning (POAP)” section on page -87

## Authentication

The Authentication REST APIs can be used by an external application to authenticate itself to the DCNM in order to programmatically control the Unified Fabric 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.

By default, the dcnm will support http. For https support, you need to run the command "**appmgr update dcnm -h true**".

The following are the Authentication REST APIs:

- [Logon, page -4](#)
- [Logout, page -5](#)
- [Get DCNM Version, page -6](#)

## 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 QWxhZGRpbjpvcGVuIHNlc2FtZQ==” will return the token in the payload.

**https Method** POST

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

### Parameter

Parameter	Type	Description
expirationTime	S	Token expiry duration.

**Return Value** Format: JSON

Type: Object

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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
500	Internal Server Error

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
500	Internal Server Error

# Auto Configuration

The auto configuration contains the following tables:

- [Organization, page -8](#)
- [Partition, page -8](#)
- [Network, page -8](#)
- [Profile, page -9](#)

The following are the Authentication REST APIs:

- [List Organizations, page -10](#)
- [Create an Organization, page -11](#)
- [Get an Organization, page -12](#)
- [Update an Organization, page -13](#)
- [Delete an Organization, page -14](#)
- [List Partitions, page -15](#)
- [Create a Partition, page -16](#)
- [Get a Partition, page -17](#)
- [Update a Partition, page -18](#)
- [Delete a Partition, page -19](#)
- [List Networks, page -20](#)
- [Create a Network, page -21](#)
- [Get a Network, page -22](#)
- [Update a Network, page -23](#)
- [Delete a Network, page -24](#)
- [Create a Auto Configuration profile, page -29](#)
- [Delete a Auto Configuration profile, page -32](#)
- [Get Auto Config Settings, page -25](#)
- [Update Auto Config Settings, page -26](#)
- [List Auto Configuration Profiles, page -28](#)
- [Create a Auto Configuration profile, page -29](#)
- [Get a Auto Configuration profile, page -30](#)
- [Update a Auto Configuration profile, page -31](#)
- [Delete a Auto Configuration profile, page -32](#)

## 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
description	String	Optional
serviceNodeIpAddress	String	Optional
dnsServer	String	Optional
secondaryDNSServer	String	Optional
vrfName	String	Optional
dcId	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
staticIpEnd	String	Optional
vSwitchControllerNetworkId	String	Optional

<b>Attributes</b>	<b>Type</b>	<b>Require</b>
description	String	Optional
vSwitchControllerId	String	Optional
configArg	String	Optional
dhcpScope	subnet gateway ipRange	Optional Optional Optional
vrfName	String	Optional

## Profile

<b>Attributes</b>	<b>Type</b>	<b>Require</b>
forwardingMode	String	Mandatory
profileName	String	Mandatory
configCommands	String	Mandatory
description	String	Optional
profileType	String	Mandatory
profileSubType	String	Mandatory

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create an Organization

<b>Resource Name</b>	/auto-config/organizations														
<b>Description</b>	Enables you to create a new organization.														
<b>https Method</b>	POST														
<b>URL</b>	https://dcnm-ip/rest/auto-config/organizations														
<b>Parameter</b>															
<table border="1"> <thead> <tr> <th>Parameter</th><th>Type</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Organization</td><td>O</td><td>Organization object</td></tr> </tbody> </table>		Parameter	Type	Description	Organization	O	Organization object								
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202	Accepted														
400	Bad Request														
401	Unauthorized														
403	Forbidden														
404	Not Found														
405	Method Not Allowed														
500	Internal Server Error														

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create a Partition

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

**Description** Enables you to create a new partition.

**https Method** POST

**URL** http://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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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 l2 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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 l2 segments or VLAN ID and Mobility Domain ID for VLAN Mobility Domain is displayed.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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:</p> <ul style="list-style-type: none"> <li>ldapServer, ldapUserName,</li> <li>ldapPassWord, segmentIdRange,</li> <li>partitionIdRange,</li> <li>useLocalDhcp,</li> <li>dhcpPrimarySubnet,</li> <li>enableAmqpNotification,</li> <li>amqpServer, amqpPort,</li> <li>amqpVirtualHost,</li> <li>amqpUserName,</li> <li>amqpPassWord,</li> <li>amqpExchangeName,</li> <li>xmppServer, xmppUserName,</li> <li>xmppPassWord, xmppGroup,</li> <li>xmppResponseTimeout,</li> <li>xmppSearch, vrfName</li> </ul> <p>The following attributes are applicable for HA set-up:</p> <ul style="list-style-type: none"> <li>ldapPeerServer,</li> <li>ldapPeerUserName,</li> <li>ldapPeerPassWord.</li> </ul>

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

**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**

<b>Parameter</b>	<b>Type</b>	<b>Description</b>
Auto-config-settings	O	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  The following attributes are applicable for HA set-up: ldapPeerServer, ldapPeerUserName, ldapPeerPassWord.

**Return Value**

Format: JSON

Type: Object

<b>Attribute Name</b>	<b>Type</b>	<b>Description</b>

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update a Auto Configuration profile

<b>Resource Name</b>	/rest/auto-config/profiles/{profile-name} /rest/auto-config/profiles/{profile-name}/type/IPVLAN /rest/auto-config/profiles/{profile-name}/type/FPBD
----------------------	---

<b>Description</b>	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.
--------------------	--

<b>https Method</b>	PUT
---------------------	-----

<b>URL</b>	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
------------	--

<b>Parameter</b>	<b>Parameter</b>	<b>Type</b>	<b>Description</b>
	profile	O	Profile object

<b>Return Value</b>	Format: JSON Type: Object
---------------------	------------------------------

<b>Attribute Name</b>	<b>Type</b>	<b>Description</b>

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Cable Plan

The following are the Cable Plan REST APIs:

- [Capture a Cable Plan, page -34](#)
- [Generate a Cable Plan, page -35](#)
- [Get a Cable Plan, page -36](#)
- [Save a Cable Plan, page -37](#)
- [Delete a Cable Plan, page -38](#)
- [Get a Cable Plan From Device, page -39](#)
- [View Cable Plan From Device, page -40](#)
- [Import a Cable Plan, page -41](#)
- [Export a Cable Plan, page -42](#)
- [Deploy a Cable Plan, page -43](#)
- [Revoke a Cable Plan, page -44](#)

## 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

### Status Code

200	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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** <https://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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## DCI

The following are the DCI REST APIs:

- [Get Unified Fabric DCI Settings, page -46](#)
- [Update Unified Fabric DCI Settings, page -47](#)
- [List DCI pairs, page -48](#)
- [Create DCI Pairs, page -49](#)
- [Get DCI Pairs with Node Id, page -50](#)
- [Update DCI Pairs for Special Type BL-DCI and BL, page -51](#)
- [Delete DCI Pairs for Special Type BL-DCI and BL, page -52](#)
- [Get DCI Pairs with Node ID and Peer ID, page -53](#)
- [Update DCI Pairs with Node ID and Peer ID, page -54](#)
- [Delete DCI Pairs with Node ID and Peer ID, page -55](#)
- [Create Partition with DCI Option, page -56](#)
- [Update Partition with DCI ID, page -57](#)
- [Update Partition to Disable DCI Extension, page -58](#)
- [Update Partition to Enable DCI Extension, page -59](#)
- [List All Extended Partitions, page -60](#)
- [List All Extended Partitions with a VRF, page -61](#)
- [List all Extended Partitions in an Organization, page -62](#)
- [Get Extended Partition, page -63](#)

## Get Unified Fabric DCI Settings

**Resource Name** /settings/dci

**Description** Get Unified Fabric 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update Unified Fabric DCI Settings

**Resource Name** /settings/dci

**Description** Update Unified Fabric 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get DCI Pairs with Node Id

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

**Description** Get the DCI pairings for a given node ID, or the type is "BL-DCI", or type is "BL" without peering.

*<<sushs: do we need to expand BL?>>*

**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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update DCI Pairs for Special Type BL-DCI and BL

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

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

*<<sushs: same comment as above>>*

**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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Delete DCI Pairs for Special Type BL-DCI and BL

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

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

*<<sushs: same comment as above>>*

**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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

<<sushs: Do we need to add the Sample Flow as mentioned in the SFS? I havent seen any instances earlier.>>



## DHCP

The following are the DHCP REST APIs:

- [List POAP Scopes, page -66](#)
- [Create a POAP Scope, page -67](#)
- [Update a POAP Scope, page -68](#)
- [Delete a POAP Scope, page -69](#)

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error



## Multiple Orchestrator Support

The following are the Multiple Orchestrator Support REST APIs:

- [List All the Orchestrators with Segment Id Ranges, page -82](#)
- [Get Orchestrator Segment Id Ranges, page -83](#)
- [Create Orchestrator Segment Id Ranges, page -84](#)
- [Update Orchestrator Segment Id Ranges, page -85](#)
- [Delete Orchestrator Segment Id Ranges, page -86](#)

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Multiple Mobility Domain with VLAN Translation

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

- [List Mobility Domains with VLANs, page -72](#)
- [Get Mobility Domain with VLANs, page -73](#)
- [Create Mobility Domain with VLANs, page -74](#)
- [Update Mobility Domain with VLANs, page -75](#)
- [Delete Mobility Domain with VLANs, page -76](#)
- [Get Translate VLAN Settings, page -77](#)
- [Update Translate VLAN Settings, page -78](#)
- [Delete Translate VLAN Settings, page -79](#)

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Get Translate VLAN Settings

**Resource Name** /rest/settings/general

**Description** Get Unified Fabric translate VLAN settings.

**https Method** GET

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

**Parameter**

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Update Translate VLAN Settings

**Resource Name** /rest/settings/general

**Description** Update Unified Fabric translate VLAN settings.

**https Method** PUT

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Delete Translate VLAN Settings

**Resource Name** /rest/settings/general

**Description** Delete Unified Fabric translate VLAN settings.

**https Method** PUT

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

**Parameter**

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error



## Power On Auto Provisioning (POAP)

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

- [List Servers, page -88](#)
- [Create a Server, page -89](#)
- [Get Servers, page -90](#)
- [Update Servers, page -91](#)
- [Delete Servers, page -92](#)
- [List Switch Definitions, page -93](#)
- [Create Switch Definitions, page -94](#)
- [Publish Switch Definitions, page -95](#)
- [Get a Switch Definition, page -96](#)
- [Update a Switch Definition, page -97](#)
- [Delete a Switch Definition, page -98](#)
- [Get a POAP Template, page -99](#)
- [Create a POAP Template, page -100](#)
- [Update a POAP Template, page -101](#)
- [Delete a POAP Template, page -102](#)
- [Get All Published Templates, page -103](#)
- [Generate Template Startup Config, page -104](#)
- [Get Group Navigation, page -105](#)
- [Perform Shallow Discovery, page -106](#)
- [Create POAP Definition, page -107](#)

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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, host name/ipaddress, path, username and password.

**Return Value** Format: JSON

Type: Object

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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## List Switch Definitions

<b>Resource Name</b>	/poap/switch-definitions														
<b>Description</b>	List the POAP switch definitions														
<b>https Method</b>	GET														
<b>URL</b>	<p>https://dcnm-ip/rest/poap/switch-definitions</p> <p>https://dcnm-ip/rest/poap/switch-definitions?detail=true</p> <p>https://dcnm-ip/rest/poap/switch-definitions?search-string=&lt;search-string&gt;&amp;start-index=&lt;start-index&gt;&amp;size=&lt;size&gt;</p>														
<b>Parameter</b>	<table border="1"> <thead> <tr> <th>Parameter</th><th>Type</th><th>Description</th></tr> </thead> <tbody> <tr> <td></td><td></td><td></td></tr> </tbody> </table>	Parameter	Type	Description											
Parameter	Type	Description													
<b>Return Value</b>	<p>Format: JSON</p> <p>Type: Object</p> <table border="1"> <thead> <tr> <th>Attribute Name</th><th>Type</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Switch-definitions</td><td></td><td>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.</td></tr> </tbody> </table>	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.								
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.													
<b>Status Code</b>	<table border="1"> <tbody> <tr> <td>200</td><td>OK</td></tr> <tr> <td>400</td><td>Bad Request</td></tr> <tr> <td>401</td><td>Unauthorized</td></tr> <tr> <td>403</td><td>Forbidden</td></tr> <tr> <td>404</td><td>Not Found</td></tr> <tr> <td>405</td><td>Method Not Allowed</td></tr> <tr> <td>500</td><td>Internal Server Error</td></tr> </tbody> </table>	200	OK	400	Bad Request	401	Unauthorized	403	Forbidden	404	Not Found	405	Method Not Allowed	500	Internal Server Error
200	OK														
400	Bad Request														
401	Unauthorized														
403	Forbidden														
404	Not Found														
405	Method Not Allowed														
500	Internal Server Error														

## 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.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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 .

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

202	Accepted
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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.

**Status Code**

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Generate Template Startup Config

**Resource Name** /templates/populate-template/{template-name}

**Description** Get all the published templates.

*<<sushs: the description is similar to Get a POAP template. how/why is this different? only difference is the https method.>>*

**https Method** POST

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

### Parameter

Parameter	Type	Description
templateParams	A	Template parameters with values. You will get the templateParams in get template data API response. It returns the template parameters with default values.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
startupConfig	S	Return startup config

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## 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

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

## Create POAP Definition

**Resource Name** /poap/poap-switch-definition

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

*<<sushs: how is this different from Create Switch Definition?>>*

**https Method** POST

**URL** https://dcnm-ip/rest/poap/poap-switch-definition

### Parameter

Parameter	Type	Description
POAP	A	Array of template parameters and POAP switch details.

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
poap	A	Array of POAPv switch details with template content.

### Status Code

200	OK
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
500	Internal Server Error

