

## Auto Configuration

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## 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"> <li>Rollback on Device and Stop Delivery on Other Devices</li> <li>Rollback on Device and Continue Delivery on Other Devices</li> <li>Rollback on All Devices</li> <li>Stop Delivery on Error</li> <li>Stop Delivery on All Devices on Error</li> <li>Continue on Error</li> </ul>
configDeliveryTaskDeliveryOrderSetting	String	Optional	Possible values: <ul style="list-style-type: none"> <li>sequential</li> <li>parallel</li> </ul>
configTemplateRef	ConfigTemplate	Mandatory	
configDeliveryTaskDeviceDetailsCol	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 HTTP methods.

Status Code	Status	API's HTTP Method or HTTP Method
200	OK	GET OK POST PUT DELETE
202 <sup>1</sup>	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 HTTP Method or HTTP 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** 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

## 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 I2 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 l2 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

## Get a Template

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

**Description** Get Configuration template

**https Method** GET

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

**Parameter**

Parameter	Type	Description
templateFileContent	S	ConfigTemplate file content in plain text

**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/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/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/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/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/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/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/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/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

