

## Topology

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## Status

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

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

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

## Get a Topology

**Resource Name** /topology

**Description** Enables to get a topology

**https Method** GET

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

**Parameter**

Parameter	Type	Description
NA	NA	NA

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
Topology	O	Topology Object

## Get a Vpc Topology

**Resource Name** /topology/vpc

**Description** Enables to get a VPC topology

**https Method** GET

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

### Parameter

Parameter	Type	Description
vpcDbId	long @QueryParam	VPC database identifier

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
Topology	O	Topology Object

## Override Switch Role

**Resource Name** topology/role/{ethSwitchId}

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

**https Method** PUT

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

**Parameter**

Parameter	Type	Description
ethSwitchId	long	Switch ID

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
NA	NA	NA

## Revert Switch Role

**Resource Name** /topology/role/{ethSwitchId}

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

**https Method** DELETE

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

### Parameter

Parameter	Type	Description
ethSwitchId	long @PathParam	Switch ID

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
NA	NA	NA

## Get Topology Tags

**Resource Name** /topology/tags/{definedType}

**Description** Enables you to get all topology tags

**https Method** GET

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

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

## Fetch Tag

**Resource Name** /topology/tags/{id}

**Description** Enables you to fetch a tag

**https Method** GET

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
tags	O	Requested tag



## Create Tag

**Resource Name** /topology/tags

**Description** Enables to create a tag

**https Method** POST

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

**Parameter**

Parameter	Type	Description
tag	O	Tag object

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

## Delete Tags

**Resource Name** /topology/tags

**Description** Enables to delete tags

**https Method** DELETE

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

**Parameter**

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description

## VLAN Search

**Resource Name** /topology/l2vlanstp/islsondemand

**Description** Enables you to search for VLAN information in a group

**https Method** GET

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

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

## OTV Topology

**Resource Name** /rest/topology/switches/otv

**Description** Enables to fetch OTV overlay networks.

**https Method** GET

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

### Parameter

Parameter	Type	Description
session-id	String @QueryParam	Token

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
Overlays	O	Contains list of OTV overlays

## OTV Vlans

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

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

**https Method** GET

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

**Parameter**

Parameter	Type	Description
session-id	String @QueryParam	Token

**Return Value** Format: JSON  
Type: Object

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

## VxLan VTEPs

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

**Description** Enables you to fetch all VxLan VTEPs

**https Method** GET

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

### Parameter

Parameter	Type	Description
session-id	String @QueryParam	Token

**Return Value** Format: JSON  
Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLan VTEPs

## VxLan VNIs

**Resource Name** /rest/topology/switches/vxlan

**Description** Enables you to search vteps on VNIs

**https Method** GET

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

**Parameter**

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLAN VTEPs

## VxLan Multicast

**Resource Name** /rest/topology/switches/vxlan

**Description** Enables you to search vteps on multicast address

**https Method** GET

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

Attribute Name	Type	Description
vteps	A	Contains list of VxLAN VTEPs



## Switch VxLan Details

**Resource Name** /rest/topology/switches/vxlan

**Description** Enables you to search vteps on multicast address

**https Method** GET

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

### Parameter

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

**Return Value** Format: JSON

Type: Object

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

## Get STP information

**Resource Name** /topology/l2vlanstp/stpsearch

**Description** Enables to get STP information for VLAN in a group.

**https Method** POST

**URL** https://dcnm-ip/fm/fmrest/topology/l2vlanstp/stpsearch

**Parameter**

Parameter	Type	Description
L2TopologyOnDemand	object	Response from the previous API.

**Return Value** Format: JSON

Type: Object

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