

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/fm/rest/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/fm/rest/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/fm/rest/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/fm/rest/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/fm/rest/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/fm/rest/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/rest/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