

Operational Management

The following are the Static Flow Stitching REST APIs:

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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
403	Forbidden	GET POST PUT DELETE
404	Not Found	GET POST PUT DELETE

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

Get Flow_id for a given MulticastIP

Resource Name /rest/pmn/getflowid/mcastIp/{mcastIp}

Description Get a listing of all the Current Flows in the network.

https Method GET

URL https://dcnm-ip/rest/pmn/getflowid/mcastIp/{mcastIp}- Get Flowid for particular flow.
 https://dcnm-ip/rest/pmn/getflowid/mcastIp/{mcastIp}/source/{host_id} - Get listing of specific flow in the network for given mcastIp+sender (host_id) combination(IGMPV3).

Parameter

Parameter	Type	Description
Flow-id	String	Integer number indicating each flow.

Return Value Format: JSON
 Type: Object

Attribute Name	Type	Description

Get Listing of all Active/Current Flows

Resource Name /rest/pmn/flowstatus

Description Get a listing of all the Current Flows in the network.

https Method GET

URL https://dcnm-ip/rest/pmn/flowstatus - Get listing of all Flows in the network.
 https://dcnm-ip/rest/pmn/flowstatus/{flow-id} -Get listing about all senders and receivers information about a specific flow.
 https://dcnm-ip/rest/pmn/flow/{flowID}/{senderHostId}/{receiverHostId} - Get all information about the specific flow between a selected sender and a receiver.



Note

A Flow id is a unique instance of the multicast flow, with bandwidth and dscp bit allocations. Every sender/receiver pair forms an instance of this particular Flow id. Therefore, for a given flow, with one sender and 2 receivers, there will be 2 entries in the flowstatus response.

Parameter

Parameter	Type	Description
Flow-id	String	Integer number indicating each flow.

Return Value

Format: JSON

Type: Long

Attribute Name	Type	Description

Get Listing of all Flows that a selected host participates in

Resource Name /rest/pmn/topology/host/{hostId}/flows-participating-in

Description Get a listing of all the flows that a selected host participates in.

https Method GET

URL https://dcnm-ip/rest/pmn/topology/host/{hostID}/flows-participating-in

Parameter

Parameter	Type	Description
hostId	String	Unique identifier of the host (sender/receiver)

Return Value Format: JSON

Type: Long

Attribute Name	Type	Description

Get Listing of all Flows that a particular switch participates in.

Resource Name /rest/pmn/topology/switch/{switchId}/flows-passing-through

Description Get a listing of all the flows that a selected switch participates in.

https Method GET

URL https://dcnm-ip/rest/pmn/topology/switch/{switchId}/flows-passing-through

Parameter

Parameter	Type	Description
switchId	String	Unique identifier of the switch

Return Value Format: JSON

Type: Long

Attribute Name	Type	Description

Topology and Inventory APIs

Resource Name /fm/fmrest/inventory/switches
 /fm/fmrest/san/getDetailsBySwitch/?switchDbID={switchDbId}
 /fm/fmrest/inventory/getInterfacesBySwitch/?switchDbID={switchDbId}&network=LAN

Description Get Inventory information and Query information about the inventory, such as, Switch IP, modules, interfaces, mgmt. interface etc.

https Method GET

URL https://dcnm-ip/fm/fmrest/inventory/switches - Get listing of all Switch instances with details
 https://dcnm-ip/fm/fmrest/san/getDetailsBySwitch/?switchDbID={switchDbId} - Get details about a particular switch.
 https://dcnm-ip/fm/fmrest/inventory/getInterfacesBySwitch/?switchDbID={switchDbId} - Get interface specific information about a particular switch.



Note The interface level API, will expose interface ids, that will also be obtained in the flow API and can be mapped to instances participating in a flow.

Parameter

Parameter	Type	Description
switchDbId	String	Unique identifier of the switch

Return Value

Format: JSON

Type: Long

Attribute Name	Type	Description
Access denied		DCNM session is invalid, need to get new session token.
String value		String value indicating Success/Failure of the new flow being deleted.

Delete/Leave Receiver for a Flow

Resource Name /rest/pmn/events

Description Get a listing of all the events that occurred in DCNM.

https Method GET

URL https://dcnm-ip/rest/pmn/events/ -- Get listing of all events
 https://dcnm-ip/rest/pmn/events/start/{startTime} - Get listing of all events posted after a particular time.
 https://dcnm-ip/rest/pmn/events/start/{startTime}/severity/{severitylevel} - Get listing of events of a particular severity after a particular start time.

Parameter

Parameter	Type	Description
startTime	String	Start time in format yyyy-MM-dd'T'HH:mm:ss
severitylevel	String	INFO/DEBUG/ERROR/CRITICAL

Return Value Format: JSON

Type: Long

Attribute Name	Type	Description