

SmartFabric Director REST API Guide Release 1.1

February 2020



Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

© 2019 - 2020 Dell Inc. or its subsidiaries. All rights reserved. Dell, EMC, and other trademarks are trademarks of Dell Inc. or its subsidiaries. Other trademarks may be trademarks of their respective owners.

1 Using the REST API.....	6
2 Statements.....	7
POST/auth/token.....	9
POST/auth/token/extend.....	10
POST/auth/users.....	11
GET/auth/users.....	13
GET/auth/users/{userId}.....	14
GET/auth/domains.....	15
GET/auth/servers/ldap.....	16
PUT/auth/users/{userId}.....	17
PUT/auth/users/{userId}/password.....	19
PUT/auth/users/{userId}/cli-access.....	21
PUT/auth/users/{userId}/user-role.....	22
PUT/auth/users/{userId}/user-state.....	24
PUT/auth/users/self/password.....	25
PUT/auth/servers/ldap.....	27
DELETE/auth/users/{userId}.....	28
DELETE/auth/servers/ldap.....	30
GET/topology/status.....	31
POST/topology/upload.....	32
GET/topology.....	33
POST/fabrics-intents.....	34
GET/fabrics-intents.....	35
POST/fabrics-intents/{id}/clone.....	36
POST/fabrics-intents/{id}/check-deploy-impact.....	36
POST/fabrics-intents/{id}/approval-request.....	37
POST/fabrics-intents/{id}/cancel-approval.....	37
POST/fabrics-intents/{id}/validate.....	38
POST/fabrics-intents/{id}/deploy.....	38
GET/fabrics-intents/{id}.....	39
GET/fabrics-intents/{id}/configuration.....	40
PUT/fabrics-intents/{id}.....	42
DELETE/fabric-intents/{id}.....	43
POST/fabrics-intents/{fabric-intent-id}/interlinks.....	43
GET/fabrics-intents/{fabric-intent-id}/deployments/{deployment-id}.....	44
GET/fabrics-intents/{fabric-intent-id}/interlinks.....	46
GET/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}.....	47
PUT/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}.....	48
DELETE/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}.....	49
POST/fabrics-intents/{fabric-intent-id}/host-networks.....	50
GET/fabrics-intents/{fabric-intent-id}/host-networks.....	51
GET/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}.....	52
PUT/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}.....	52

DELETE/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}.....	53
POST/fabrics-intents/{fabric-intent-id}/edge/connections.....	54
GET/fabrics-intents/{fabric-intent-id}/edge/connections.....	55
GET/fabrics-intents/{fabric-intent-id}/edge/connections/{id}.....	56
PUT/fabrics-intents/{fabric-intent-id}/edge/connections/{id}.....	57
GET/fabric-intents/{fabric-intent-id}/configuration/vlans.....	57
DELETE/fabrics-intents/{fabric-intent-id}/edge/connections/{id}.....	58
GET/fabrics.....	59
GET/fabrics/{id}/configurations.....	59
POST/fabrics/{id}/deploy.....	61
POST/vm-managers.....	62
GET/vm-managers.....	63
PUT/vm-managers/{id}.....	64
GET/vm-managers/{id}.....	65
DELETE/vm-managers/{id}.....	66
GET/alerts.....	67
POST/alerts/{id}/ack.....	68
POST/alerts/{id}/unack.....	69
POST/alerts/{id}/clear.....	69
GET/alerts/{id}/events.....	70
GET/events.....	70
GET/events/{id}.....	72
GET/syslogs/messages.....	72
GET/syslogs/messages/latest.....	73
POST/image-servers.....	74
GET/image-servers.....	76
GET/image-servers/{id}.....	77
PUT/image-servers/{id}.....	79
DELETE/image-servers/{id}.....	81
POST/switch-groups.....	82
GET/switch-groups.....	84
GET/switch-groups/{id}.....	85
PUT/switch-groups/{id}.....	86
DELETE/switch-groups/{id}.....	88
POST/telemetry/metrics.....	89
GET/telemetry/switch/rank/metric/{metric-name}.....	91
POST/telemetry/state.....	92
GET/telemetry/catalog.....	93
POST/telemetry/connection/{switch-id}.....	95
GET/switch/{switch-id}.....	96
GET/switch/{switch-id}/interface.....	97
GET/interface/{interface id}.....	98
GET/switch/{switch-id}/bgp.....	99
GET/switch/{switch-id}/lag.....	100
GET/switches/summary.....	101
POST/wiring-diagrams.....	102
DELETE/wiring-diagrams/{id}.....	102
GET/wiring-diagrams/{id}/topology.....	103
GET/wiring-diagrams/summary.....	104
GET/wiring-diagrams/{id}/compatible-intents.....	105

GET/system-settings.....	105
PUT/system-settings/gateway.....	106
POST/system-settings/ntp.....	108
DELETE/system-settings/ntp/{ntp_server}.....	109
POST/system-settings/dns.....	110
DELETE/system-settings/dns/{dns_server}.....	112
GET/activities.....	113
GET/about.....	114
GET/system/health.....	114
POST/system/ping.....	114
POST/lcm/update-job.....	115
GET/lcm/update-job.....	116
GET/lcm/update-job/{id}.....	118
PUT/lcm/update-job/{id}.....	119
DELETE/lcm/update-job/{id}.....	121
POST/lcm/update-job/{id}/approval-request.....	123
POST/lcm/update-job/{id}/cancel.....	124
POST/lcm/update-job/{id}/deploy.....	126
POST/lcm/update-job/{id}/status.....	128

3 Models..... 130

Using the REST API

Representational state transfer (REST) is a software architectural style that defines constraints that are used to provide interoperability between computer systems on the Internet. RESTful Web services allow the requesting systems to access and manipulate textual representations of Web resources by using a uniform and predefined set of stateless operations. These stateless operations include GET, POST, PUT, DELETE, and SET. Smart Fabric Director (SFD) browser-based GUI uses REST API to interface with SFD. Any Client that wants to interface with the SFD must use these REST APIs, typically over an HTTPS.

HTTP methods

- GET—Retrieves the URIs of the member resources of the collection resource in the response body.
- POST—Creates a member resource in the collection resource using the instructions in the requested body. The URI of the created member resource is automatically assigned and the returned in the response location header field.
- PUT—Replaces all the representations of the member resources of the collection resource with the representation in the request body. This method also creates the collection resource if it does not exist.
- DELETE—Delete all the representations of the member resources of the collection resource.

The GET method is *safe*, meaning that applying it to a resource does not cause a resource state change. It is read-only. The GET, PUT, and DELETE methods are *idempotent*, meaning that applying them multiple times to a resource results in the same state change of the resource as applying them once, though the response might differ.

Statements

This information defines configuration statements.

Topics:

- POST/auth/token
- POST/auth/token/extend
- POST/auth/users
- GET/auth/users
- GET/auth/users/{userId}
- GET/auth/domains
- GET/auth/servers/ldap
- PUT/auth/users/{userId}
- PUT/auth/users/{userId}/password
- PUT/auth/users/{userId}/cli-access
- PUT/auth/users/{userId}/user-role
- PUT/auth/users/{userId}/user-state
- PUT/auth/users/self/password
- PUT/auth/servers/ldap
- DELETE/auth/users/{userId}
- DELETE/auth/servers/ldap
- GET/topology/status
- POST/topology/upload
- GET/topology
- POST/fabrics-intents
- GET/fabrics-intents
- POST/fabrics-intents/{id}/clone
- POST/fabrics-intents/{id}/check-deploy-impact
- POST/fabrics-intents/{id}/approval-request
- POST/fabrics-intents/{id}/cancel-approval
- POST/fabrics-intents/{id}/validate
- POST/fabrics-intents/{id}/deploy
- GET/fabrics-intents/{id}
- GET/fabrics-intents/{id}/configuration
- PUT/fabrics-intents/{id}
- DELETE/fabric-intents/{id}
- POST/fabrics-intents/{fabric-intent-id}/interlinks
- GET/fabrics-intents/{fabric-intent-id}/deployments/{deployment-id}
- GET/fabrics-intents/{fabric-intent-id}/interlinks
- GET/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}
- PUT/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}
- DELETE/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}
- POST/fabrics-intents/{fabric-intent-id}/host-networks
- GET/fabrics-intents/{fabric-intent-id}/host-networks
- GET/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}
- PUT/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}
- DELETE/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}
- POST/fabrics-intents/{fabric-intent-id}/edge/connections
- GET/fabrics-intents/{fabric-intent-id}/edge/connections
- GET/fabrics-intents/{fabric-intent-id}/edge/connections/{id}
- PUT/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

- GET/fabric-intents/{fabric-intent-id}/configuration/vlans
- DELETE/fabrics-intents/{fabric-intent-id}/edge/connections/{id}
- GET/fabrics
- GET/fabrics/{id}/configurations
- POST/fabrics/{id}/deploy
- POST/vm-managers
- GET/vm-managers
- PUT/vm-managers/{id}
- GET/vm-managers/{id}
- DELETE/vm-managers/{id}
- GET/alerts
- POST/alerts/{id}/ack
- POST/alerts/{id}/unack
- POST/alerts/{id}/clear
- GET/alerts/{id}/events
- GET/events
- GET/events/{id}
- GET/syslogs/messages
- GET/syslogs/messages/latest
- POST/image-servers
- GET/image-servers
- GET/image-servers/{id}
- PUT/image-servers/{id}
- DELETE/image-servers/{id}
- POST/switch-groups
- GET/switch-groups
- GET/switch-groups/{id}
- PUT/switch-groups/{id}
- DELETE/switch-groups/{id}
- POST/telemetry/metrics
- GET/telemetry/switch/rank/metric/{metric-name}
- POST/telemetry/state
- GET/telemetry/catalog
- POST/telemetry/connection/{switch-id}
- GET/switch/{switch-id}
- GET/switch/{switch-id}/interface
- GET/interface/{interface id}
- GET/switch/{switch-id}/bgp
- GET/switch/{switch-id}/lag
- GET/switches/summary
- POST/wiring-diagrams
- DELETE/wiring-diagrams/{id}
- GET/wiring-diagrams/{id}/topology
- GET/wiring-diagrams/summary
- GET/wiring-diagrams/{id}/compatible-intents
- GET/system-settings
- PUT/system-settings/gateway
- POST/system-settings/ntp
- DELETE/system-settings/ntp/{ntp_server}
- POST/system-settings/dns
- DELETE/system-settings/dns/{dns_server}
- GET/activities
- GET/about
- GET/system/health
- POST/system/ping
- POST/lcm/update-job
- GET/lcm/update-job

- GET/lcm/update-job/{id}
- PUT/lcm/update-job/{id}
- DELETE/lcm/update-job/{id}
- POST/lcm/update-job/{id}/approval-request
- POST/lcm/update-job/{id}/cancel
- POST/lcm/update-job/{id}/deploy
- POST/lcm/update-job/{id}/status

POST/auth/token

Retrieves a new token.

API POST/auth/token

Description Login request to get the access token. This API should be invoked first to get the API token. The returned token is used for all other APIs.

Parameters

Table 1. API parameters

Filter name	Description
body *	Login request to get the access token. For example:
required (body)	<pre>{ "username": "example@sfd.local", "password": "examplePass", "authDomain": "LDAP_AUTH" }</pre>

Responses

200 - Success or error response

```
{
  "token": "string",
  "refreshToken": "string"
}
```

400 - Invalid login request

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - Bad credentials

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
}
```

```

    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

POST/auth/token/extend

A new token returns to the user with a new expiry time.

API POST/auth/token/extend

Description Extends request to get a new access token. A new token is returned to the user with a new expiry timer.

Parameters

Table 2. API parameters

Filter name	Description
body * required (<i>body</i>)	Extend request to get a new access token. For example: <pre> body * (body) { "refreshToken": "refresh-token-string" } </pre>

Responses 200 - Response to the login or extend request.

```

{
  "token": "string",
  "refreshToken": "string"
}

```

400 - Invalid refresh request

```

{
  "new_object_id": "string",
  "id": "string",

```

```

    "message": "string",
    "messageParams": [
      "string"
    ],
    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

POST/auth/users

Creates a new local user.

API POST/auth/users

Description Login request to create a new local user. Used for SFD-domain only.

Parameters

Table 3. API parameters

Filter name	Description
body * required (body)	Create a new local user. For example: <pre>{ "first_name": "string", "last_name": "string", "user_id": "string", "password": "string", "confirm_password": "string", "user_state": true, "cli_access": false, "user_role": "ADMIN", "contact_number": "string" }</pre>

Responses

202 - New entity created successfully.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
}
```

```

    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

GET/auth/users

Retrieves all user information.

API	GET/auth/users
Description	Get all users records.
Parameters	None
Responses	200 - Get all users details configured with NFC.

```

{
  "data": [
    {
      "first_name": "string",
      "last_name": "string",
      "user_id": "string",
      "state": true,
      "cli_access": true,
      "user_role": "ADMIN",
      "ad_user": false,
      "contact_number": "string",
      "updated_by": "string",
      "last_updated": 0,
      "user_status": "ACTIVE",
      "cli_status": "ACTIVE"
    }
  ]
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

{
  "new_object_id": "string",

```

```

    "id": "string",
    "message": "string",
    "messageParams": [
      "string"
    ],
    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

GET/auth/users/{userId}

Retrieves specific user information.

API GET/auth/users/{userId}

Description Get user information.

Parameters

Table 4. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter as input to get user information. For example:

Responses 200 - Response to the login or extend request.

```

{
  "first_name": "string",
  "last_name": "string",
  "user_id": "string",
  "state": true,
  "cli_access": true,
  "user_role": "ADMIN",
  "ad_user": false,
  "contact_number": "string",
  "updated_by": "string",
  "last_updated": 0,
  "user_status": "ACTIVE",
  "cli_status": "ACTIVE"
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",

```

```
    "messageParams": [
      "string"
    ]
  }
]
```

404 - Request entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/auth/domains

Gets the NFC-configured auth domains.

API	GET/auth/domains
Description	Returns the NFC-configured auth domains.
Parameters	None
Responses	200 - Get all the auth domains configured with NFC.

```
{
  "auth_domains": [
    "string"
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/auth/servers/ldap

Returns the LDAP URL and its NFC-configured attributes.

API	GET/auth/servers/ldap
Description	Returns the LDAP URL and its attributes.
Parameters	None
Responses	200 - Get LDAP server details configured with the NFC.

```
{
  "url": "string",
  "attributes": "string",
  "username": "string",
  "description": "string",
  "user_info": {
    "created_by": "string",
    "created_at": 0,
    "last_updated_by": "string",
    "last_updated_at": 0
  }
}
```


401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

PUT/auth/users/{userId}

Updates information for a specific user.

API PUT/auth/users/{userId}

Description Update user information. Users can change their own data. Users with the Admin role can also update other users data.

Parameters [Table 5. API parameters](#)

Filter name	Description
userId *	UserId parameter as input to update user information.
required	
string	
(path)	
body *	Update user data. For example:
required	
(body)	

```
{
  "first_name": "string",
  "last_name": "string",
}
```

Filter name	Description
	<pre>"contact_number": "string" }</pre>

Responses

200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

PUT/auth/users/{userId}/password

Change the user password by the admin.

API PUT/auth/users/{userId}/password

Description Changes a user password by a user with the Admin role.

Parameters

Table 6. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter to change password of the user. For example:
changeUserPassword * required (<i>body</i>)	Password parameter used to change the user password. For example: <pre>{ "new_password": "string", "confirm_new_password": "string" }</pre>

Responses

202 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

```
]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

PUT/auth/users/{userId}/cli-access

Changes cli-access permission of the user.

API PUT/auth/users/{userId}/cli-access

Description Changes the cli-access permission of the user. You must have Admin role privileges to perform this action.

Parameters

Table 7. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter to change CLI access.
modifyUser CliAccess * required (<i>body</i>)	CLI-access input parameter to change CLI access. For example: <pre>{ "cli_access": false }</pre>

Responses

200 - Success or error response

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

401 - You are not authorized to perform this operation.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

PUT/auth/users/{userId}/user-role

Changes the user role.

API PUT/auth/users/{userId}/user-role

Description Changes the role of the user. You must have Admin role privileges to perform this action.

Parameters

Table 8. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter to change a user role.
changeUserRole * required (<i>body</i>)	User-role parameter to change the user role. For example:

```
{
  "user_role": "ADMIN"
}
```

Responses

200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

404 - Request entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
```

```

    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

PUT/auth/users/{userId}/user-state

Changes the user state.

API PUT/auth/users/{userId}/user-state

Description Changes the state of the user. You must have Admin role privileges to perform this action.

Parameters

Table 9. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter to change a user state.
changeUserRole * required (<i>body</i>)	User-role parameter to change the user state. For example: <pre> { "user_state": "ADMIN" } </pre>

Responses 200 - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",

```



```

    "message": "string",
    "messageParams": [
      "string"
    ],
    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

404 - Request entity does not exist.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

PUT/auth/users/self/password

Changes a user password by the user.

API	PUT/auth/users/self/password
Description	Changes an existing password by the user.

Parameters

Table 10. API parameters

Filter name	Description
changeSelfPassword * required (body)	Password parameter used to change the password of a user. For example: <pre>{ "old_password": "string", "new_password": "string", "confirm_new_password": "string" }</pre>

Responses

202 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",

```

```

    "field_name": "string",
    "messageParams": [
      "string"
    ]
  }
]
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

PUT/auth/servers/ldap

Configures servers by giving the LDAP server URL and credentials to verify authentication with the configured server URL.

API PUT/auth/servers/ldap

Description Configures servers by giving the LDAP server URL and credentials to verify authentication with the configured server URL.

Parameters

Table 11. API parameters

Filter name	Description
body *	Configure LDAP with the URL and credentials. For example:
required	
(body)	

```

{
  "url": "ldap://
ds.example.com:389",
  "username": "admin",
  "password": "adminPassword",
  "attributes": "dc=example,dc=com"
}

```

Responses 201 - New entity created successfully.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",

```

```

    "field_name": "string",
    "messageParams": [
      "string"
    ]
  }
]
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

"new_object_id": "string",
"Id": "string",
"message": "string",
"messageParams": [
  "string"
],
"messages": [
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams": [
      "string"
    ]
  }
]
}

```

DELETE/auth/users/{userId}

Deletes a user.

API DELETE/auth/users/{userId}

Description Delete a user. You can delete your own user record. Users with the Admin role can also delete other users. The Admin user cannot be deleted.

Parameters

Table 12. API parameters

Filter name	Description
userId *	userId parameter as input to delete a user. For example:
required	
string	

Filter name**Description**

(path)

Responses

202 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

DELETE/auth/servers/ldap

Deletes the configured LDAP server from the NFC.

API	DELETE/auth/servers/ldap
Description	Delete the configured LDAP server from the NFC.
Parameters	None
Responses	200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

```
}
]
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/topology/status

Retrieves the overall status of the fabric.

API	GET/topology/status
Description	Fabric creation designs topology, discovery of physical switches, and configuration of the switches. This API can be invoked at any time to know the status of the fabric. This API provides status of each step in creation of the fabric.
Parameters	None
Response	200 - Success or error response

```
{
  "design": {
    "status": "NOT_DONE",
    "imported": true
  },
  "inventory": {
    "switches_designed_count": 0,
    "switches_discovered_count": 0,

```

```

    "additional_switches_discovered": 0,
    "connections_designed_count": 0,
    "connections_discovered_count": 0,
    "additional_connections_discovered": 0
  },
  "network": {
    "states": {
      "operational": "NONE"
    }
  }
}

```

401 - You are not authorized to perform this operation.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

Default - Success or error response

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

POST/topology/upload

Uploads the physical topology file in JSON format.

API POST/topology/upload

Description This API is the design file to upload. SmartFabric Director learns the design and then provides the next steps to perform.

Parameters

Table 13. API parameters

Filter name	Description
	For example: <pre>designFile file (formData)</pre>

Responses 201 - Invalid request - uploaded file not valid.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

400 - You are not authorized to perform this operation.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [

```



```
    "string"
  ]
}
```

401 - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

Default - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

GET/topology

Returns the physical topology of the fabric.

API	POST/topology/upload
Description	Describes the topology of the fabric, and reports if the switches are discovered or not.
Parameters	None
Responses	200 - Success or error response

```
{
  "id": "string",
  "name": "string",
  "switches": [
    {
      "id": "string",
      "name": "string",
      "model": "string",
      "position": 0,
      "role": "LEAF",
      "peer_switch_id": "string",
      "mgmt_ip_address": "string",
      "states": {
        "defined": true,
        "rechable": true,
        "discovered": true,
        "configured": true,
        "operational": "NONE"
      },
      "interfaces": [
        {
          "id": "string",
          "name": "string",
          "type": "ETHERNET",
          "role": "MANAGEMENT",
          "speed": "string"
        }
      ]
    }
  ],
  "connections": [
    {
```

```

    "id": "string",
    "name": "string",
    "source_switch_id": "string",
    "destination_switch_id": "string",
    "source_switch_interface_id": "string",
    "destination_switch_interface_id": "string",
    "role": "MANAGEMENT",
    "states": {
      "defined": true,
      "discovered": true,
      "operational": "NONE"
    }
  }
]
}

```

401 - You are not authorized to perform this operation.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

Default - Success or error response

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

POST/fabrics-intents

Provides input parameters for the network intent.

API POST/fabrics-intents

Description Configuration of a network intent on the fabric. This API describes how the switch should be interconnected in the fabric. Once the network intent is specified, response to this request returns the fabric ID which can be used to get the wanted network configuration. Deploy the fabric intent to take effect on the switches.

Parameters

Table 14. API parameters

Filter name	Description
body * required	For example: <pre> body * (body) { "name": "string", "type": "L3_BGP", "layer3": { "interlink_subnet": { "address": "string", "mask": 0 }, "loopback_seed_address": { "address": "string", "mask": 0 } }, "bgp": { "type": "eBGP", </pre>

Filter name	Description
	<pre> "as_leaf": 0, "as_spine": 0 }, "ufd": true, "rstp": true } } </pre>

Responses

201 - You are not authorized to perform this operation.

```

{
  "fabric_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

401 - Success or error response

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

default
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

GET/fabrics-intents

Retrieves all the fabric intents.

API	GET/fabrics-intents
Description	Get all the fabric intents.
Parameters	None
Responses	200 - Success or error response

```

{
  "data": [
    {
      "id": "41:51771177706553346",
      "name": "nfc",
      "wiring_diagram_id": "210:51771176547909632",
      "description": "",
      "user_info": {
        "created_by": "admin@sfd.local",
        "created_at": 1579930960284,
        "last_updated_by": null,
        "last_updated_at": null
      },
      "fabric-type": "L3_BGP",
    }
  ]
}

```

```

    "state": {
      "current_state": "APPROVED",
      "timestamp": null,
      "timestamp_iso": null
    }
  ]
}

```

POST/fabrics-intents/{id}/clone

Clones a fabric intent

API POST/fabrics-intents/{id}/clone

Description Clones a fabric intent.

Parameters [Table 15. API parameters](#)

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:3A51771215306326025

Responses 201

```

{
  "new_object_id": "41:51776466356076705",
  "id": "fabric_intent_create_success",
  "message": "Fabric Intent created successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "fabric_intent_create_success",
      "message": "Fabric Intent created successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}

```

POST/fabrics-intents/{id}/check-deploy-impact

Checks the impact of the specified fabric intent deployment.

API POST/fabrics-intents/{id}/check-deploy-impact

Description Checks the impact of this fabric intent deployment.

Parameters [Table 16. API parameters](#)

Filter name	Description
id *	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:3A51771215306326025

Responses 200

```
{
  "impact": "NONE"
}
```

POST/fabrics-intents/{id}/approval-request

Requests approval for a specific fabric intent.

API POST/fabrics-intents/{id}/approval-request

Description Sends an approval request for a specific fabric intent approval.

Parameters

Table 17. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (path)	41:51776466356076705

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "fabric_intent_approval_request_success",
  "message": "Fabric Intent approval request raised successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "fabric_intent_approval_request_success",
      "message": "Fabric Intent approval request raised successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

POST/fabrics-intents/{id}/cancel-approval

Requests a cancel for a fabric intent approval.

API POST/fabrics-intents/{id}/cancel-approval

Description Sends a cancel request for a fabric intent approval.

Parameters

Table 18. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (path)	41:51771215306326025

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "fabric_intent_cancel_approval_request_success",
  "message": "Fabric Intent approval request cancelled successfully",
}
```

```

"messageParams": [],
"messages": [
  {
    "id": "fabric_intent_cancel_approval_request_success",
    "message": "Fabric Intent approval request cancelled successfully",
    "field_name": null,
    "messageParams": []
  }
]
}

```

POST/fabrics-intents/{id}/validate

Requests validation for a specific fabric intent to deploy.

API POST/fabrics-intents/{id}/validate

Description Sends a request to validate a specific fabric intent to deploy.

Parameters

Table 19. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51771215306326025

Responses 200 - Success or error response

```

{
  "deployable": true,
  "messages": [
    {
      "id": "fabric_intent_validate_success",
      "message": "Fabric Intent was validated successfully."
    }
  ]
}

```

POST/fabrics-intents/{id}/deploy

Requests deployment for a specific fabric intent to the topology.

API POST/fabrics-intents/{id}/deploy

Description Sends a request to deploy a specific fabric intent to the topology.

Parameters

Table 20. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51771215306326025

Responses 200 - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
}

```

```

    "messageParams": [
      "string"
    ],
    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  ]
}

```

GET/fabrics-intents/{id}

Retrieves the configured fabric intent.

API GET/fabrics-intents/{id}

Description The ID represents the fabric OID which was returned when the fabric intent was posted.

Parameters

Table 21. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41%3A51771177706553346

Responses 200 - You are not authorized to perform this operation.

```

{
  "id": "41%3A51771177706553346",
  "name": "intent-demo",
  "wiring_diagram_id": "210:51771176547909632",
  "description": "",
  "user_info": {
    "created_by": "admin@sfd.local",
    "created_at": 1579931812368,
    "last_updated_by": null,
    "last_updated_at": null
  },
  "fabric-type": "NOT_DEFINED",
  "state": {
    "current_state": "DRAFT",
    "timestamp": null,
    "timestamp_iso": null
  }
}

```

401 - Requested entity does not exist.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

404 - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

default
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

GET/fabrics-intents/{id}/configuration

Retrieves the generated configured for this fabric intent.

API GET/fabrics-intents/{id}/configuration

Description Gets the specific fabric intent configuration.

Parameters

Table 22. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string	41:3A51771215306326025
(path)	

Responses 200 - Success or error response

```
{
  "switches": [
    {
      "id": "string",
      "name": "string",
      "interfaces": [
        {
          "id": "string",
          "type": "ETHERNET",
          "role": "MANAGEMENT",
          "name": "string",
          "addresses": [
            {
              "ip_type": "IPV4",
              "ip_address": "string",
              "prefix": 0
            }
          ]
        }
      ]
    }
  ],
  "bgp_config": {
    "as_number": 0,
    "neighbors": [
      {
        "peer_switch_id": "string",
        "peer_switch_name": "string",
        "peer_as_number": 0,
        "peer_address": "string"
      }
    ]
  }
}
```



```

    ]
  },
  "rstp": {
    "enabled": true
  },
  "ufd": {
    "enabled": true,
    "group_id": 0,
    "interface_members": [
      {
        "type": "UPLINK",
        "members": {
          "id": "string",
          "name": "string"
        }
      }
    ]
  },
  "vlt": {
    "domain_id": 0,
    "peer_switch_id": "string",
    "peer_switch_name": "string",
    "interface_members": [
      {
        "id": "string",
        "name": "string"
      }
    ]
  },
  "lACP": {
    "system_priority": 0,
    "aggregate_interface": [
      {
        "id": "string",
        "period_type": "string",
        "mode": "string",
        "min_links": 0,
        "lag_id": 0,
        "interface_members": [
          {
            "id": "string",
            "name": "string"
          }
        ]
      }
    ]
  }
},
"connections": [
  {
    "id": "string",
    "name": "string",
    "role": "MANAGEMENT",
    "endpoint1": {
      "switch_id": "string",
      "switch_name": "string",
      "interface_id": "string",
      "ipaddress": "string"
    },
    "endpoint2": {
      "switch_id": "string",
      "switch_name": "string",
      "interface_id": "string",
      "ipaddress": "string"
    }
  }
]
}

```

PUT/fabrics-intents/{id}

Updates the configured fabric intent.

API PUT/fabrics-intents/{id}

Description The ID represents the fabric OID which was returned when the fabric intent was posted.

Parameters

Table 23. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:3A51771222128001037
body	For example:
	<pre>{ "name": "intent-L3-new", "wiring_diagram_id": "210:51771176547909632", "description": "" }</pre>

Responses

200 - You are not authorized to perform this operation.

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

401 - Requested entity does not exist.

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

404 - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

default
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

DELETE/fabric-intents/{id}

Deletes a fabric intent.

API DELETE/fabric-intents/{id}

Description Deletes a fabric intent.

Parameters

Table 24. API parameters

Filter name	Description
id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:3A51771177706553346

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "fabric_intent_delete_success",
  "message": "Fabric Intent deleted successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "fabric_intent_delete_success",
      "message": "Fabric Intent deleted successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

POST/fabrics-intents/{fabric-intent-id}/interlinks

Creates an interlink object within a fabric intent.

API POST/fabrics-intents/{fabric-intent-id}/interlinks

Description Creates an interlink object within a fabric intent.

Parameters

Table 25. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51776562459279527
body	For example:

```
{
  "name": "intent-new",
  "type": "L3_BGP",
  "L3_BGP": {
    "bgp": {
      "type": "eBGP",
      "as_leaf_range": [
        {
          "start": 64801,
          "end": 64928
        }
      ]
    }
  }
}
```

Filter name	Description
	<pre> }], "as_spine_range": [{ "start": 64601, "end": 64616 }] }, "interlink_subnet": { "address": "192.180.0.0", "prefix_len": 16 }, "loopback_seed address": { "address": "10.0.0.0", "prefix_len": 32 }, "ufd": true, "mtu": 1500, "rstp": true } } </pre>

Responses

201

```

{
  "new_object_id": "42:51776562747670697",
  "id": "fabric_intent_interlink_create_successful",
  "message": "Interlink with created successfully.",
  "messageParams": [
    "42:51776562747670697"
  ],
  "messages": [
    {
      "id": "fabric_intent_interlink_create_successful",
      "message": "Interlink with created successfully.",
      "field_name": null,
      "messageParams": [
        "42:51776562747670697"
      ]
    }
  ]
}

```

GET/fabrics-intents/{fabric-intent-id}/deployments/{deployment-id}

Retrieves the deployment status of a specific fabric-intent using the fabric-intent ID.

API GET/fabrics-intents/{fabric-intent-id}/deployments/{deployment-id}

Description Retrieves the fabric-intent deployment status using the fabric-intent ID.

Parameters

Table 26. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string	41:51771177706553346
path	

Filter name	Description
deployment-id	Unique identifier of the fabric intent deployment. For example: 151:51773025513308176

Responses

200 - Success or error response

```
{
  "deployment_state": "FAILED",
  "timestamp": {
    "start_time": 1579987357,
    "start_time_iso": "2020-01-25 21:22:37 UTC",
    "end_time": 1579987422,
    "end_time_iso": "2020-01-25 21:23:42 UTC"
  },
  "deployment_count": {
    "success_count": 0,
    "in_progress_count": 0,
    "error_count": 6
  },
  "deployment_progression": [
    {
      "id": "2:51771176555151441",
      "name": "sc2-t2-s5224-l3",
      "progress": 100,
      "status": "FAILED",
      "timestamp": {
        "start_time": 1579987375738,
        "start_time_iso": "52037-10-21 22:08:58 UTC",
        "end_time": 1579987405500,
        "end_time_iso": "52037-10-22 06:25:00 UTC"
      },
      "messages": [
        {
          "id": null,
          "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
        },
        {
          "id": null,
          "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
        }
      ]
    },
    .
    .
    .
    {
      "id": "2:51771176549810179",
      "name": "sc2-t2-z9100-s1",
      "progress": 100,
      "status": "FAILED",
      "timestamp": {
        "start_time": 1579987386053,
        "start_time_iso": "52037-10-22 01:00:53 UTC",
        "end_time": 1579987415716,
        "end_time_iso": "52037-10-22 09:15:16 UTC"
      },
      "messages": [
        {
          "id": null,
          "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
        },
        {
          "id": null,
```

```

      "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
    },
    {
      "id": null,
      "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
    },
    {
      "id": null,
      "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
NFC_AGENT_OPERATION_FAILURE"
    }
  ]
}
]
}

```

GET/fabrics-intents/{fabric-intent-id}/interlinks

Retrieve all interlink objects within a fabric intent.

API GET/fabrics-intents/{fabric-intent-id}/interlinks

Description Retrieve all interlink objects within a fabric intent.

Parameters

Table 27. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (path)	41:51776562459279527

Responses 200 - Success or error response

```

{
  "data": [
    {
      "name": "intent-new",
      "type": "L3_BGP",
      "L3_BGP": {
        "interlink_subnet": {
          "address": "192.180.0.0",
          "prefix_len": 16
        },
        "loopback_seed_address": {
          "address": "10.0.0.0",
          "prefix_len": 32
        },
        "bgp": {
          "type": "eBGP",
          "as_leaf_range": [
            {
              "start": 64801,
              "end": 64928
            }
          ],
          "as_spine_range": [
            {
              "start": 64601,
              "end": 64616
            }
          ]
        }
      },
      "ufd": true,
      "rstp": true,
    }
  ]
}

```

```

    "mtu": 1500
  },
  "L2_VLT": null,
  "id": "42:51776562747670697",
  "fabricIntentId": "41:51776562459279527"
}
]
}

```

GET/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Retrieve a specific interlink object within a fabric intent using the interlink ID.

API GET/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Description Retrieve a specific interlink object within a fabric intent using the interlink ID.

Parameters

Table 28. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (path)	41:51776562459279527
interlink-id	Unique identifier of the fabric intent interlink. For example:
string (path)	42:51776562747670697

Responses 200 - Success or error response

```

{
  "id": "string",
  "fabricIntentId": "string",
  "name": "string",
  "type": "L3_BGP",
  "L3_BGP": {
    "interlink_subnet": {
      "address": "string",
      "prefix_len": 0
    },
    "loopback_seed_address": {
      "address": "string",
      "prefix_len": 0
    },
    "bgp": {
      "type": "eBGP",
      "as_leaf_range": [
        {
          "start": 0,
          "end": 0
        }
      ],
      "as_spine_range": [
        {
          "start": 0,
          "end": 0
        }
      ]
    }
  },
  "ufd": true,
  "rstp": true,
}

```

```

    "mtu": 0
  },
  "L2_VLT": {
    "ufd": true,
    "mtu": 0,
    "edge_interlink_ebgp": {
      "interlink_subnet": {
        "address": "string",
        "prefix_len": 0
      },
      "loopback_seed_address": {
        "address": "string",
        "prefix_len": 0
      },
    },
    "bgp": {
      "type": "eBGP",
      "as_leaf_range": [
        {
          "start": 0,
          "end": 0
        }
      ],
      "as_spine_range": [
        {
          "start": 0,
          "end": 0
        }
      ]
    }
  }
}
}
}
}

```

PUT/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Place an interlink object within a fabric intent.

API PUT/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Description Place an interlink object within a fabric intent.

Parameters

Table 29. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (path)	41:51776562459279527
interlink-id	Unique identifier of the fabric intent interlink. For example:
string (path)	42:51776562747670697
body	For example:
	<pre> { "name": "intent-new", "type": "L3_BGP", "L3_BGP": { "bgp": { "type": "eBGP", "as_leaf_range": [</pre>

Filter name	Description
	<pre> { "start": 64801, "end": 64928 }], "as_spine_range": [{ "start": 64601, "end": 64616 }] }, "interlink_subnet": { "address": "192.180.0.1", "prefix_len": 16 }, "loopback_seed_address": { "address": "10.0.0.0", "prefix_len": 32 }, "ufd": true, "mtu": 1500, "rstp": true } </pre>

Responses

200 - Success or error response

```

{
  "new_object_id": null,
  "id": "fabric_intent_interlink_update_successful",
  "message": "Interlink updated successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "fabric_intent_interlink_update_successful",
      "message": "Interlink updated successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}

```

DELETE/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Remove an interlink object from a fabric intent.

API DELETE/fabrics-intents/{fabric-intent-id}/interlinks/{interlink-id}

Description Remove an interlink object from a fabric intent.

Parameters

Table 30. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (path)	41:51776562459279527

Filter name	Description
interlink-id	Unique identifier of the fabric intent interlink. For example:
string (<i>path</i>)	42:51776562747670697

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "fabric_intent_interlink_delete_successful",
  "message": "Interlink with deleted successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "fabric_intent_interlink_delete_successful",
      "message": "Interlink with deleted successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

POST/fabrics-intents/{fabric-intent-id}/host-networks

Creates a host network object within a fabric intent.

API POST/fabrics-intents/{fabric-intent-id}/host-networks

Description Creates a host network object within a fabric intent.

Parameters

Table 31. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51776562459279527
body	For example:
	<pre>{ "type": "WORKLOAD_VLAN", "data": [{ "svi_ip_1": "10.1.1.2/24", "svi_ip_2": "10.1.1.3/24", "vrrp_virtual_ip": "10.1.1.1/24", "switch_id 1": "2:51771176554102825", "switch_id 2": "2:51771176554692670" }], "vlan_id": "100", "name": "100", "description": null }</pre>

Responses

201

```
{
  "new_object_id": "46:51776822585327789",
  "id": "host_network_create_success",
  "message": "Host Network Created Successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "host_network_create_success",
      "message": "Host Network Created Successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

GET/fabrics-intents/{fabric-intent-id}/host-networks

Retrieve all host network objects within a fabric intent.

API GET/fabrics-intents/{fabric-intent-id}/host-networks

Description Retrieve all host network objects within a fabric intent.

Parameters

Table 32. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (path)	41:51776562459279527

Responses 200 - Success or error response

```
{
  "data": [
    {
      "vlan_id": 100,
      "type": "WORKLOAD_VLAN",
      "data": [
        {
          "switch_id_1": "2:51771176554102825",
          "switch_id_2": "2:51771176554692670",
          "svi_ip_1": "10.1.1.2/24",
          "svi_ip_2": "10.1.1.3/24",
          "vrrp_virtual_ip": "10.1.1.1/24"
        }
      ],
      "name": "100",
      "description": "",
      "id": "46:51776822585327789"
    }
  ]
}
```

GET/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Retrieve a specific host network object within a fabric intent using the host network ID.

API GET/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Description Retrieve a specific host network object within a fabric intent using the host network ID.

Parameters

Table 33. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51776562459279527
host-network-id	Unique identifier of the host network object. For example:
	46:51776822585327789

Responses 200 - Success or error response

```
{
  "vlan_id": 100,
  "type": "WORKLOAD_VLAN",
  "data": [
    {
      "switch_id_1": "2:51771176554102825",
      "switch_id_2": "2:51771176554692670",
      "svi_ip_1": "10.1.1.2/24",
      "svi_ip_2": "10.1.1.3/24",
      "vrrp_virtual_ip": "10.1.1.1/24"
    }
  ],
  "name": "100",
  "description": "",
  "id": "46:51776822585327789"
}
```

PUT/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Updates a specific host network object within a fabric intent using the host network ID.

API PUT/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Description Update a specific host network object within a fabric intent using the host network ID.

Parameters

Table 34. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example:
string (<i>path</i>)	41:51776562459279527

Filter name	Description
host-network-id	Unique identifier of the host network object. For example: 46:51776822585327789
body	For example: <pre>{ "vlan_id": 100, "type": "WORKLOAD_VLAN", "data": [{ "svi_ip_1": "10.1.1.2/24", "svi_ip_2": "10.1.1.3/24", "vrrp_virtual_ip": "10.1.1.1/24", "switch_id_1": "2:51771176554102825", "switch_id_2": "2:51771176554692670" }], "name": "100", "description": "Workload VLAN for tenant - Eng" }</pre>

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "host_network_update_success",
  "message": "Host Network Updated Successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "host_network_update_success",
      "message": "Host Network Updated Successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

DELETE/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Deletes a specific host network object from a fabric intent using the host network ID.

API DELETE/fabrics-intents/{fabric-intent-id}/host-networks/{host-network-id}

Description Deletes a specific host network object from a fabric intent using the host network ID.

Parameters

Table 35. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent. For example: 41:51776562459279527
string (path)	

Filter name	Description
host-network-id	Unique identifier of the host network object. For example: 46:51776822585327789

Responses 200

```
{
  "new_object_id": null,
  "id": "host_network_delete_success",
  "message": "Host Network Delete Successfully",
  "messageParams": [],
  "messages": [
    {
      "id": "host_network_delete_success",
      "message": "Host Network Delete Successfully",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

POST/fabrics-intents/{fabric-intent-id}/edge/connections

Creates an edge connection for a specific fabric intent ID.

API POST/fabrics-intents/{fabric-intent-id}/edge/connections

Description Creates an edge connection for a specific fabric intent ID.

Parameters [Table 36. API parameters](#)

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent.
string (path)	
body	Edge connection object parameters. For example:

```
{
  "name": "sc2-t5-s4148-13-
edge:ethernet1/1/30 to external",
  "localInterfaceId":
  "35:51809586523963488",
  "localAddress": {
    "IpAddress": "xx.xx.xx.x",
    "prefixLen": "16"
  },
  "remoteAddress": {
    "IpAddress": "xx.xx.xx.x",
    "prefixLen": "16"
  },
  "remoteAsn": "64701"
}
```

Responses

200 - Success or error response

```
{
  "new_object_id": "47:51809591344136198",
  "id": "edge_network_leaf_adjacency_create_success",
  "message": "Edge Network Leaf Adjacency created
successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "edge_network_leaf_adjacency_create_success",
      "message": "Edge Network Leaf Adjacency created
successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

400 - Invalid request.

401 - You are not authorized to perform this operation.

GET/fabrics-intents/{fabric-intent-id}/edge/connections

Retrieves all edge connections for a specific fabric intent ID.

API

GET/fabrics-intents/{fabric-intent-id}/edge/connections

Description

Retrieves all edge connections for a specific fabric intent ID.

Parameters

Table 37. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent.
string	
(path)	

Responses

200 - Success or error response

```
{
  "data": [
    {
      "id": "47:51809591344136198",
      "name": "sc2-t5-s4148-13-edge:ethernet1/1/30 to external",
      "localAddress": {
        "IpAddress": "50.50.50.1",
        "prefixLen": 16
      },
      "remoteAddress": {
        "IpAddress": "50.50.50.2",
        "prefixLen": 16
      },
      "remoteAsn": 64701,
      "localInterfaceInfo": {
        "localInterfaceId": "35:51809586523963488",
        "localInterfaceName": "ethernet1/1/30"
      },
      "edgeSwitchInfo": {
        "edgeSwitchId": "2:51809586523209807",
        "edgeSwitchName": "sc2-t5-s4148-13-edge"
      }
    },
    {
      "id": "47:51809619161710599",
```

```

    "name": "sc2-t5-s4148-14-edge:ethernet1/1/30 to external",
    "localAddress": {
      "IpAddress": "60.60.60.1",
      "prefixLen": 16
    },
    "remoteAddress": {
      "IpAddress": "60.60.60.2",
      "prefixLen": 16
    },
    "remoteAsn": 64701,
    "localInterfaceInfo": {
      "localInterfaceId": "35:51809586524618871",
      "localInterfaceName": "ethernet1/1/30"
    },
    "edgeSwitchInfo": {
      "edgeSwitchId": "2:51809586524061799",
      "edgeSwitchName": "sc2-t5-s4148-14-edge"
    }
  }
]
}

```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

GET/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

Retrieves an edge connection for a specific fabric intent using the fabric intent ID.

API GET/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

Description Retrieves an edge connection for a specific fabric intent using the fabric intent ID.

Parameters

Table 38. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent.
string (<i>path</i>)	
id	Unique identifier of the Edge-connection.
body	Edge connection object parameters.

```

{
  "name": "sc2-t5-s4148-13-
edge:ethernet1/1/30 to external",
  "localInterfaceId":
  "35:51809586523963488",
  "localAddress": {
    "IpAddress": "xx.xx.xx.x",
    "prefixLen": "16"
  },
  "remoteAddress": {
    "IpAddress": "xx.xx.xx.x",
    "prefixLen": "16"
  },
  "remoteAsn": 64701
}

```


Responses

200 - Success or error response

```

{
  "new_object_id": null,
  "id": "edge_network_leaf_adjacency_update_success",
  "message": "Edge Network Leaf Adjacency
'47:51809591344136198' updated successfully.",
  "messageParams": [
    "47:51809591344136198"
  ],
  "messages": [
    {
      "id": "edge_network_leaf_adjacency_update_success",
      "message": "Edge Network Leaf Adjacency
'47:51809591344136198' updated successfully.",
      "field_name": null,
      "messageParams": [
        "47:51809591344136198"
      ]
    }
  ]
}

```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

PUT/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

Updates an edge connection for a specific fabric intent using the fabric intent ID.

API PUT/fabrics-intents/{fabric-intent-id}/edge/connections/{id}**Description** Updates an edge connection for a specific fabric intent using the fabric intent ID.

GET/fabric-intents/{fabric-intent-id}/configuration/vlans

Retrieves host network information that is generated from the configuration for the specified fabric intent using the fabric intent ID.

API GET/fabric-intents/{fabric-intent-id}/configuration/vlans**Description** Retrieves host network information that is generated from the configuration for the specified fabric intent using the fabric intent ID.**Parameters****Table 39. API parameters**

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent.
string	
(path)	

Responses

200 - Success or error response

```

{
  "data": [
    {
      "vlan_id": 101,
      "description": "VLAN 101 for business administration",
      "type": "WORKLOAD_VLAN",

```

```

"switch_vlan_config": [
  {
    "vrrp": {
      "ip_address": "xxx.x.x.x/xx"
    },
    "virtual_intf": [
      {
        "switch_id": "2:51809586522226729",
        "switch_name": "sc2-t5-s4148-11",
        "intf_name": "vlan101",
        "ip_address": "xxx.x.x.x/xx"
      },
      {
        "switch_id": "2:51809586522816572",
        "switch_name": "sc2-t5-s4148-12",
        "intf_name": "vlan101",
        "ip_address": "xxx.x.x.x/xx"
      }
    ]
  },
  "port_channels": null
]
}
]
}
}

```

404 - Request entity does not exist.

401 - You are not authorized to perform this operation.

DELETE/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

Deletes an edge connection for a specific fabric intent using the fabric intent ID.

API DELETE/fabrics-intents/{fabric-intent-id}/edge/connections/{id}

Description Deletes an edge connection for a specific fabric intent using the fabric intent ID.

Parameters

Table 40. API parameters

Filter name	Description
fabric-intent-id	Unique identifier of the fabric intent.
string (<i>path</i>)	
id	Unique identifier of the Edge-connection

Responses 200 - Success or error response

```

{
  "new_object_id": null,
  "id": "edge_network_leaf_adjacency_delete_success",
  "message": "Edge Network Leaf Adjacency '47:51809619161710599' deleted successfully.",
  "messageParams": [
    "47:51809619161710599"
  ],
  "messages": [
    {
      "id": "edge_network_leaf_adjacency_delete_success",
      "message": "Edge Network Leaf Adjacency '47:51809619161710599' deleted successfully.",
      "field_name": null,
      "messageParams": [

```

```
    "47:51809619161710599"  
  ]  
}  
]
```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

GET/fabrics

Retrieves a summary of all fabrics.

API	GET/fabrics
Description	The ID represents the fabric OID which was returned when the fabric intent was posted.
Parameters	None
Responses	200 - Success or error response

```
{  
  "data": [  
    {  
      "id": "string",  
      "name": "string",  
      "state": "NOT_DEPLOYED",  
      "operational_state": "NONE"  
    }  
  ]  
}
```

401 - You are not authorized to perform this operation.

```
{  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ]  
}  
  
default  
{  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ]  
}
```

GET/fabrics/{id}/configurations

Retrieves network intent configuration and wanted network configuration.

API	GET/fabrics/{id}/configurations
Description	The ID represents the fabric OID which was returned when the fabric intent was posted.
Parameters	Table 41. API parameters

Filter name	Description
id	Unique identifier of the fabric.
string	

Filter name**Description**

(path)

Responses

200 - Success or error response

```
{
  "id": "string",
  "state": "NOT_DEPLOYED",
  "operational_state": "NONE",
  "fabric_intent": {
    "name": "string",
    "type": "L3_BGP",
    "layer3": {
      "interlink_subnet": {
        "address": "string",
        "mask": 0
      },
      "loopback_seed_address": {
        "address": "string",
        "mask": 0
      },
      "bgp": {
        "type": "eBGP",
        "as_leaf": 0,
        "as_spine": 0
      },
      "ufd": true,
      "rstp": true
    }
  },
  .
  .
  .
  },
  "vlt": {
    "domain_id": 0,
    "peer_switch_id": "string",
    "peer_switch_name": "string",
    "interface_members": [
      {
        "id": "string",
        "name": "string"
      }
    ]
  },
  "lACP": {
    "system_priority": 0,
    "min_links": 0,
    "aggregate_interface": [
      {
        "id": "string",
        "period_type": "string",
        "mode": "string",
        "interface_members": [
          {
            "id": "string",
            "name": "string"
          }
        ]
      }
    ]
  }
},
"connections": [
  {
    "id": "string",
```

```

        "name": "string",
        "role": "MANAGEMENT",
        "source_switch_id": "string",
        "source_switch_name": "string",
        "destination_switch_id": "string",
        "destination_switch_name": "string",
        "source_switch_interface_id": "string",
        "destination_switch_interface_id": "string",
        "source_interface_ipaddress": "string",
        "destination_interface_ipaddress": "string"
    }
  ]
}

```

401 - You are not authorized to perform this operation.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

Default - Success or error response

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

POST/fabrics/{id}/deploy

Deploys the wanted network configuration on the fabric.

API POST/fabrics/{id}/deploy

Description The ID represents the fabric OID which was returned when the fabric intent was posted.

Parameters

Table 42. API parameters

Filter name	Description
id	Unique identifier of the fabric.
string	
(path)	

Responses 202 - You are not authorized to perform this operation.

```

{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}

```

401 - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

Default - Success or error response

```
{
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ]
}
```

POST/vm-managers

Adds the user-provided vCenter/NSX URL and credentials.

API POST/vm-managers

Description Adds the user-provided vCenter/NSX URL and credentials.

Parameters

Table 43. API parameters

Filter name	Description
body	Provides input parameters to add vCenter/NSX based on type. For example: <pre>{ "type": "VCENTER" "name": "string", "description": "string", "url": "string", "username": "string", "password": "string" }</pre>

Responses

201

```
{
  "new_object_id": "102:51771201129512964",
  "id": " vm_manager_add_successful ",
  "message": " VmManager addition
                is successful ",
  "messageParams": [""],
  "messages": [
    {
      "id": "vm_manager_add_successful",
      "message": "VmManager addition
                is successful",
      "field_name": "null",
      "messageParams": ["" ]
    } ]
}
```

401 - Sample output for connection refused error.

```
{
```

```

    "new_object_id": "string",
    "id": "vm_manager_refused_connection_request",
    "message": " Connection request to
VmManager server is refused ",
    "messageParams": [
        ""
    ],
    "messages": [
        {
            "id": "vm_manager_refused_connection
_request ",
            "message": " Connection request to
VmManager server is refused ",
            "field_name": "string",
            "messageParams": [
                ""
            ]
        }
    ]
}

```

GET/vm-managers

Returns all the vCenters and NSX that the SFD manages.

API	GET/vm-managers
Description	Returns all the vCenters and NSX that the SFD manages.
Parameters	None.
Responses	200 - Success or error response

```

{
  "data": [
    {
      "id": "102:51771201129512964",
      "name": "",
      "type": "VCENTER",
      "url": "https://10.175.225.12",
      "description": "",
      "username": "admin@vsphere ",
      "state": "OPERATIONAL"
    }
  ]
}

```

401 - You are not authorized to perform this action.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

PUT/vm-managers/{id}

Updates a specific VM manager using the VM manager ID.

API	PUT/vm-managers/{id}
Description	Updates a specific VM manager using the VM manager ID.
Parameters	

Table 44. API parameters

Filter name	Description
id	Unique identifier of the vCenter/NSX to update.
string (path)	
body	For example: <pre>{ "type": "VCENTER", "name": "string", "description": "string", "url": "string", "username": "string", "password": "string" }</pre>

Responses 200 - Successful update

```
{
  "new_object_id": null,
  "id": "vm_manager_update_successful",
  "message": "VmManager updated successfully ",
  "messageParams": [
    "102:51773391620440069"
  ],
  "messages": [
    {
      "id": "vm_manager_update_successful",
      "message": " VmManager updated successfully ",
      "field_name": null,
      "messageParams": [
        "102:51773391620440069"]}]
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```



```
  ]}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/vm-managers/{id}

Returns a specific VM manager using the VM manager ID.

API GET/vm-managers/{id}

Description Returns a specific VM manager using the VM manager ID.

Parameters

Table 45. API parameters

Filter name	Description
id	Unique identifier of the vCenter/NSX to update.
string	
(path)	

Responses 200 - Success or error response

```
{
  "id": "102:51771201129512964",
  "name": "",
  "type": "VCENTER",
  "url": "https://10.175.225.12",
  "description": "",
  "username": "admin@vsphere ",
  "state": "OPERATIONAL"
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",

```

```

        "messageParams": [
            "string"
        ]
    }
}

```

404 - Requested entity does not exist.

```

{
    "new_object_id": "string",
    "id": "string",
    "message": "string",
    "messageParams": [
        "string"
    ],
    "messages": [
        {
            "id": "string",
            "message": "string",
            "field_name": "string",
            "messageParams": [
                "string"
            ]
        }
    ]
}

```

DELETE/vm-managers/{id}

Deletes a VM manager using the VM manager ID.

API DELETE/vm-managers/{id}

Description Deletes a VM manager using the VM manager ID.

Parameters

Table 46. API parameters

Filter name	Description
id	Unique identifier of the vCenter/NSX to update.
string	
(path)	

Responses 200 - Success or error response

```

{"data": []}

```

401 - You are not authorized to perform this operation.

```

{
    "new_object_id": "string",
    "id": "string",
    "message": "string",
    "messageParams": [
        "string"
    ],
    "messages": [
        {
            "id": "string",
            "message": "string",
            "field_name": "string",
            "messageParams": [
                "string"
            ]
        }
    ]
}

```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/alerts

Retrieves all active alerts.

API	GET/alerts
Description	Retrieves all active alerts.
Parameters	

Table 47. API parameters

Filter name	Description
type string (<i>query</i>)	Gets all the active alerts based on the alert type that is generated within NFC. For example: <pre>INTERFACE_LINK_DOWN_ALERT</pre>
severity string (<i>query</i>)	Gets all the active alerts based on the alert severity that is generated within NFC. For example: <pre>WARNING, ERROR or CRITICAL</pre>
referenced-object-id string (<i>query</i>)	Gets all the active alerts generated on the referenced object id. The referenced object id is the unique identifier of the NFC-managed object.
start-time integer (\$int64) (<i>query</i>)	Gets all the active alerts that are created after the start timestamp(inclusive). The default value for the start timestamp is set as (<i>end-time - 24 hours</i>). The timestamp value is defined in milliseconds since epoch.
end-time integer (\$int64) (<i>query</i>)	Gets all the active alerts that are created before the end timestamp(inclusive). The default value for the end timestamp is set as the current time. The timestamp value is defined in milliseconds since epoch.
state string (<i>query</i>)	Gets all the active alerts based on the alert state that is generated within NFC. The Alert state can be OPEN or ACK.

Responses

200 - Success or error response

```
{
  "data": [
    {
      "id": "136:51772757723185169",
      "type": "SWITCH_UNREACHABLE_ALERT",
      "severity": "WARNING",
      "created_timestamp": 1579979178564,
      "modified_timestamp": 0,
      "message": "Switch : 'tb-Leaf2' is not reachable.",
      "referenced_object_id": {
        "id": "2:51770212505682023",
        "type": "SWITCH"
      },
      "state": "ACK",
      "acknowledged_by": "admin@sfd.local",
      "acknowledged_at": 1579980259696
    }
  ]
}
```

401 - You are not authorized to perform this operation.

POST/alerts/{id}/ack

Updates the state of an alert to the ACK state.

API POST/alerts/{id}/ack

Description Updates the state of an alert to the ACK state.

Parameters

Table 48. API parameters

Filter name	Description
id *	The alert ID to acknowledge.
required	
string	
(path)	

Responses

200 - Success or error response

```
{
  "new_object_id": null,
  "id": "ack_alert_success",
  "message": "Alert has been acknowledged successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "ack_alert_success",
      "message": "Alert has been acknowledged successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

POST/alerts/{id}/unack

Updates the state of an alert to the OPEN state.

API POST/alerts/{id}/unack
Description Updates the state of an alert to the OPEN state.
Parameters

Table 49. API parameters

Filter name	Description
id *	The alert ID to unacknowledge.
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "new_object_id": null,
  "id": "unack_alert_success",
  "message": "Alert has been un-acknowledged successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "unack_alert_success",
      "message": "Alert has been un-acknowledged successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

401 - You are not authorized to perform this operation.
404 - Requested entity does not exist.

POST/alerts/{id}/clear

Clears an alert.

API POST/alerts/{id}/clear
Description Clears an alert. On clearing an alert, the alert is deleted from the active alerts lists.
Parameters

Table 50. API parameters

Filter name	Description
id *	The alert ID to clear.
required	
string	
(path)	

Responses

```
{
  "new_object_id": null,
  "id": "clear_alert_success",
  "message": "Alert has been cleared successfully.",
  "messageParams": [],
  "messages": [
    {
```

```

    "id": "clear_alert_success",
    "message": "Alert has been cleared successfully.",
    "field_name": null,
    "messageParams": []
  }
]
}

```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

GET/alerts/{id}/events

Retrieves a list of events for specific alert.

API GET/alerts/{id}/events

Description Retrieves a list of events for a specific alert.

Parameters

Table 51. API parameters

Filter name	Description
id *	The ID of an alert.
required	
string	
(path)	

Responses 200 - Success or error response

```

{
  "data": [
    {
      "id": "131:51772757722828383",
      "type": "SWITCH_REACHABILITY_STATE_DOWN",
      "severity": "WARNING",
      "timestamp": 1579979178553,
      "message": "Switch : 'tb-Leaf2' is not reachable.",
      "referenced_object_id": {
        "id": "2:51770212505682023",
        "type": "SWITCH"
      }
    }
  ]
}

```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

GET/events

Retrieves a list of NFC event information.

API GET/events

Description Retrieves a list of NFC event information.

Parameters

Table 52. API parameters

Filter name	Description
type string (<i>query</i>)	Gets all the NFC events based on the event type that is generated within NFC. For example: <pre>INTERFACE_LINK_DOWN_EVENT</pre>
severity string (<i>query</i>)	Gets all the active events based on the event severity that is generated within NFC. For example: <pre>CLEAR, INFO, WARNING, ERROR or CRITICAL</pre>
referenced-object-id string (<i>query</i>)	Gets all the NFC events that are generated on the referenced object id. The referenced object id is the unique identifier of the NFC-managed object.
start-time integer (\$int64) (<i>query</i>)	Gets all the NFC events that are created after the start timestamp(inclusive). The default value for the start timestamp is set as (<i>end-time - 24 hours</i>). The timestamp value is defined in milliseconds since epoch.
end-time integer (\$int64) (<i>query</i>)	Gets all the NFC events that are created before the end timestamp(inclusive). The default value for the end timestamp is set as the current time. The timestamp value is defined in milliseconds since epoch.

Responses

200 - Success or error response

```
{
  "data": [
    {
      "id": "131:51771176736718976",
      "type": "WIRING_IMPORTED",
      "severity": "INFO",
      "timestamp": 1579930930684,
      "message": "Wiring design - 'Setup02-NFC-2-Spine-4-Leaf-Fabric' has been imported.",
      "referenced_object_id": {
        "id": "210:51771176547909632",
        "type": "NFC_WIRING"
      }
    },
    {
      "id": "131:51770651935244305",
      "type": "SYSTEM_HEALTH_ACTIVE_EVENT",
      "severity": "INFO",
      "timestamp": 1579914915016,
      "message": "SFD system health is active.",
      "referenced_object_id": {
        "id": "131:51770643868909574",
        "type": "NFC_EVENTS"
      }
    }
  ],
  {
    "id": "131:51770645014446088",
    "type": "SYSTEM_HEALTH_DOWN_EVENT",
    "severity": "CRITICAL",
    "timestamp": 1579914703810,
    "message": "SFD system health is degraded.",
    "referenced_object_id": {
      "id": "131:51770643868909574",
      "type": "NFC_EVENTS"
    }
  }
}
```

```
}
]
}
```

401 - You are not authorized to perform this operation.

GET/events/{id}

Retrieves specific NFC event information.

API GET/events/{id}
Description Retrieves specific NFC event information.
Parameters

Table 53. API parameters

Filter name	Description
id *	Unique identifier of the NFC event.
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "id": "131:51771176736718976",
  "type": "WIRING_IMPORTED",
  "severity": "INFO",
  "timestamp": 1579930930684,
  "message": "Wiring design - 'Setup02-NFC-2-Spine-4-Leaf-Fabric' has been
imported.",
  "referenced_object_id": {
    "id": "210:51771176547909632",
    "type": "NFC_WIRING"
  }
}
```

401 - You are not authorized to perform this operation.

GET/syslogs/messages

Retrieves syslog messages between the start and end timestamp.

API GET/syslogs/messages
Description Retrieves syslog messages between the start and end timestamp.
Parameters

Table 54. API parameters

Filter name	Description
oid	If present, the Object ID acts as a filter.
string	
(query)	
start-time	Start time in epoch millisecond. The default value for the start timestamp is set as (end-time - 24 hours).
integer (\$int64)	
(query)	
end-time	End time in epoch millisecond. The default value for the end timestamp is set as the current time.

Filter name	Description
integer (\$int64) (<i>query</i>)	
max-messages integer (<i>query</i>)	Maximum number of messages to retrieve. By default, all messages between the start and end timestamps are returned.
filter string (<i>query</i>)	Matching phrase, accepts wildcards (*).

Responses 200 - Success or error response

```
{
  "data": [
    {
      "oid": "2:51350862726037506",
      "values": [
        {
          "timestamp": 1567213715328,
          "message": "<37>1 2019-08-31T09:05:31.382925+00:00 sc2-t2-z9100-s1
audit 2967 - - Node.1-Unit.1:PRI [audit],
Dell EMC (OS10) USER_AUTH pid=2967 uid=0 auid=4294967295 ses=4294967295
msg='op=PAM:authentication
acct=\"admin\" exe=\"/usr/bin/python2.7\" hostname=? addr=? terminal=?
res=success' \n\n"
        },
        {
          "timestamp": 1567213635327,
          "message": "<37>1 2019-08-31T09:04:12.970103+00:00 sc2-t2-z9100-s1
audit 2967 - - Node.1-Unit.1:PRI [audit],
Dell EMC (OS10) USER_AUTH pid=2967 uid=0 auid=4294967295 ses=4294967295
msg='op=PAM:authentication
acct=\"admin\" exe=\"/usr/bin/python2.7\" hostname=? addr=? terminal=?
res=success' \n\n"
        },
        .
        .
        .
        {
          "timestamp": 1567190985325,
          "message": "<37>1 2019-08-31T02:45:52.547061+00:00 sc2-t2-s5224-11
audit 2706 - - Node.1-Unit.1:PRI [audit],
Dell EMC (OS10) USER_AUTH pid=2706 uid=0 auid=4294967295 ses=4294967295
msg='op=PAM:authentication
acct=\"admin\" exe=\"/usr/bin/python2.7\" hostname=? addr=? terminal=?
res=success' \n\n"
        }
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

GET/syslogs/messages/latest

Retrieves syslog messages between the start and end timestamp.

API GET/syslogs/messages/latest

Description GET latest N syslog messages for a switch.

Parameters

Table 55. API parameters

Filter name	Description
oid string (<i>query</i>)	If present, the Object ID acts as a filter.
max-messages integer (<i>query</i>)	Maximum number of messages to retrieve. The default is 100.
filter string (<i>query</i>)	Matching phrase, accepts wildcards (*).

Responses

200 - Success or error response

```
{
  "data": [
    {
      "oid": "2:51350862726037506",
      "values": [
        {
          "timestamp": 1567190955347,
          "message": "<37>1 2019-08-31T02:46:11.712195+00:00 sc2-t2-z9100-s1
audit 2967 - - Node.1-Unit.1:PRI [audit],
Dell EMC (OS10) USER_AUTH pid=2967 uid=0 auid=4294967295 ses=4294967295
msg='op=PAM:authentication
acct='admin\' exe=''/usr/bin/python2.7\' hostname=? addr=? terminal=?
res=success' \n\n"
        }
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

POST/image-servers

Creates an image server to upgrade or downgrade the image on the switch.

API POST/image-servers

Description Creates an image server to upgrade or downgrade the image on the switch. User must download the image from the switch vendor site and place the image in this image server. SFD informs the switch about the image server and the file path. The switch downloads the image from the image server.

Parameters

Table 56. API parameters

Filter name	Description
body * required (<i>body</i>)	Provides the input body to create an image server. For example:

```
{
  "url": "string",
  "base_path": "string",
  "protocol": "TFTP",
  "credential": {
    "username": "string",
    "password": "string"
  }
}
```

Filter name	Description
	<pre> }, "name": "string", "description": "string" } </pre>

Responses

201 - New entity created successfully.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

400 - Invalid request.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

```
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

GET/image-servers

Retrieves all image servers on a switch.

API	GET/image-servers
Description	Retrieves all image servers on a switch.
Parameters	None
Responses	200 - Response to get all image-server.

```
{
  "data":
    {
      "id": "string",
      "name": "string",
      "description": "string",
      "url": "string",
      "base_path": "string",
      "image_source_url": "string",
      "protocol": "string",
      "credential": {
        "username": "string"
      },
      "user_info": {
        "created_by": "string",
        "created_at": 0,
        "last_updated_by": "string",
        "last_updated_at": 0
      }
    }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {

```

```

    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
      "string"
  }
}

```

404 - Requested entity does not exist.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
      "string"
  }
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
      "string"
  }
}

```

GET/image-servers/{id}

Retrieves an image server using the image server ID.

API	GET/image-servers/{id}
Description	Retrieves an image server using the image server ID.
Parameters	

Table 57. API parameters

Filter name	Description
id *	Unique identifier of the image-server.
required	
string	

Filter name**Description**

(path)

Responses

200 - Response to get image-server by ID.

```
{
  "id": "string",
  "name": "string",
  "description": "string",
  "url": "string",
  "base_path": "string",
  "image_source_url": "string",
  "protocol": "string",
  "credential": {
    "username": "string"
  },
  "user_info": {
    "created_by": "string",
    "created_at": 0,
    "last_updated_by": "string",
    "last_updated_at": 0
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

PUT/image-servers/{id}

Updates an image server using the image server ID.

API PUT/image-servers/{id}

Description Updates an image server using the image server ID.

Parameters

Table 58. API parameters

Filter name	Description
id *	Unique identifier of the image server.
required	
string	
(<i>path</i>)	
body *	For example:
required	
(<i>body</i>)	<pre>{ "url": "string", "base_path": "string", "protocol": "TFTP", "credential": { "username": "string", "password": "string" }, "name": "string", "description": "string" }</pre>

Responses 200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",

```

```
    "messageParams":  
      "string"  
  }  
}
```

400 - Invalid request.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams":  
    "string"  
  ,  
  "messages":  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams":  
        "string"  
    }  
}
```

401 - You are not authorized to perform this operation.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams":  
    "string"  
  ,  
  "messages":  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams":  
        "string"  
    }  
}
```

404 - Requested entity does not exist.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams":  
    "string"  
  ,  
  "messages":  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams":  
        "string"  
    }  
}
```


Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

DELETE/image-servers/{id}

Deletes an image server using the image server ID.

API	DELETE/image-servers/{id}
Description	Deletes an image server using the image server ID.
Parameters	

Table 59. API parameters

Filter name	Description
id *	Unique identifier of the image server.
required	
string	
(path)	

Responses	200 - Success or error response
------------------	---------------------------------

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
}
```

```
,
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
    "string"
}
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
      "string"
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
      "string"
  }
}
```

POST/switch-groups

Creates a switch group.

API POST/switch-groups

Description Creates a switch group.

Parameters

Table 60. API parameters

Filter name	Description
body * required (body)	Provide an input body for switch group creation. For example: <pre>{ "switch_members": "string" , "name": "string", "description": "string" }</pre>

Responses

201 - New entity created successfully.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string", "messageParams":
  "string"
,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string", "messageParams":
  "string"
,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string", "id": "string",
  "message": "string", "messageParams":
  "string"
,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}
```

GET/switch-groups

Retrieves a list of all the switch groups present in the system.

API	GET/switch-groups
Description	Retrieves a list of all the switch groups present in the system.
Parameters	None
Responses	200 - Response to get all switch-group.

```
{
  "data":
  {
    "id": "string",
    "name": "string",
    "description": "string", "switch_members":
    {
      "switch_oid": "string", "switch_name": "string", "role": "NOT_SET"
    }
  },
  "user_info": {
    "created_by": "string", "created_at": 0,
    "last_updated_by": "string", "last_updated_at": 0
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string", "messageParams":
  "string"
  ,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string", "messageParams":
  "string"
  ,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string", "id": "string",
  "message": "string", "messageParams":
  "string"
  ,
  "messages":
```

```

    {
      "id": "string",
      "message": "string",
      "field_name": "string", "messageParams":
      "string"
    }
  }
}

```

GET/switch-groups/{id}

Retrieves a switch group using the switch group ID.

API GET/switch-groups/{id}

Description Retrieves a switch group using the switch group ID.

Parameters

Table 61. API parameters

Filter name	Description
id *	Unique identifier of the image server.
required	
string	
(path)	

Responses 200 - Response to get switch-group by ID.

```

{
  "id": "string",
  "name": "string",
  "description": "string",
  "switch_members":
  {
    {
      "switch_oid": "string",
      "switch_name": "string",
      "role": "NOT_SET"
    }
  },
  "user_info": {
    "created_by": "string",
    "created_at": 0,
    "last_updated_by": "string",
    "last_updated_at": 0
  }
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
},
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
  "string"
}

```

```
}  
}
```

404 - Requested entity does not exist.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams":  
    "string"  
  ,  
  "messages":  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams":  
        "string"  
    }  
}
```

Default - Success or error response

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams":  
    "string"  
  ,  
  "messages":  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams":  
        "string"  
    }  
}
```

PUT/switch-groups/{id}

Updates a switch group using the switch group ID.

API PUT/switch-groups/{id}

Description Updates a switch group using the switch group ID.

Parameters

Table 62. API parameters

Filter name	Description
id *	Unique identifier of the image server.
required	
string	
(path)	

Filter name	Description
body * required (<i>body</i>)	Provide input body to update the image server. For example: <pre> { "switch_members": "string" / "name": "string", "description": "string" } </pre>

Responses

200 - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

404 - Requested entity does not exist.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",

```

```

    "messageParams":
      "string"
  }
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}

```

DELETE/switch-groups/{id}

Deletes a specific switch group using the switch group ID.

API DELETE/switch-groups/{id}

Description Deletes a specific switch group using the switch group ID.

Parameters

Table 63. API parameters

Filter name	Description
id *	Unique identifier of the switch group.
required	
string	
(path)	

Responses 200 - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  ,
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}

```


401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

POST/telemetry/metrics

Creates or updates metric values corresponding to the specified OID and metric key.

API POST/telemetry/metrics

Description Creates or updates metric values corresponding to the specified OID and metric key.

Parameters

Table 64. API parameters

Filter name	Description
body	For example: <pre>{ "entity_id": "35:51778771773587498", "metric_name": "out_discards", "interval": 60, "time_range": { "end_time_unix": 1580189177, "start_time_unix": 1580185577 } }</pre>

Responses

200 - Success or error response

```
{
  "entity_id": "35:51778771773587498",
  "metric_name": "out_discards",
  "interval": 60,
  "metric_type": "COUNTER",
  "data": [{
    "metadata": null,
    "data": [{
      "timestamp": 1580186597,
      "value": 1565
    },
    {
      "timestamp": 1580186657,
      "value": 1565
    },
    {
      "timestamp": 1580186717,
      "value": 1565
    },
    {
      "timestamp": 1580186777,
      "value": 1565
    },
    {
      "timestamp": 1580186837,
      "value": 1565
    },
    {
      "timestamp": 1580186897,
      "value": 1565
    },
    {
      "timestamp": 1580186957,
      "value": 1565
    }
  ]
}]
}
```

400 - Invalid request.

```
{
  "new_object_id": null,
  "id": "metrics_name_not_found",
  "message": "Metrics name is not found.",
  "messageParams": [],
  "messages": [
    {
      "id": "metrics_name_not_found",
```

```

    "message": "Metrics name is not found.",
    "field_name": null,
    "messageParams": []
  }
]
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/telemetry/switch/rank/metric/{metric-name}

Retrieves metrics for all switches in the topology. Returns switch information in descending order by the metric.

- API** GET/telemetry/switch/rank/metric/{metric-name}
- Description** Retrieves metrics for all switches in the topology. Returns switch information in descending order by the metric. For example, for CPU utilization, this API returns switches in the topology in descending order.

Parameters [Table 65. API parameters](#)

Filter name	Description
metric-name *	Name of metric. See /telemetry/catalog for supported metric names.
required	
string	
(path)	

- Responses** 200 - Success or error response

```

{
  "data": [{
    "entity_name": "sc2-t5-s4148-14",
    "entity_id": "2:51778771773521959",
    "value": "32.0"
  }, {
    "entity_name": "sc2-t5-s4148-13",
    "entity_id": "2:51778771772669974",
    "value": "17.0"
  }, {
    "entity_name": "sc2-t5-z9100-s2",
    "entity_id": "2:51778771768737795",
    "value": "3.0"
  }
]}

```

400

```

{
  "new_object_id": null,
  "id": "metrics_name_not_found",
  "message": "Metrics name is not found.",
  "messageParams": [],
  "messages": [
    {

```

```

    "id": "metrics_name_not_found",
    "message": "Metrics name is not found.",
    "field_name": null,
    "messageParams": []
  }
]
}

```

401

```

{access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401
}

```

POST/telemetry/state

Creates or updates state values corresponding to the specified OID and metric key.

API POST/telemetry/state

Description Creates or updates state values corresponding to the specified OID and metric key.

Parameters

Table 66. API parameters

Filter name	Description
body	For example:
	<pre> { "oid": "35:51778771773587498", "state_name": "oper_state", "interval": 60, "time_range": { "end_time_unix": 1580189177, "start_time_unix": 1580185577 } } </pre>

Responses 200 - Success or error response

```

{
  "entity_id": "35:51778771773587498",
  "state_name": "oper_state",
  "state_type": "INTERFACE",
  "interval": 60,
  "data": [
    {
      "metadata": {
        "data": [
          {
            "key": "interface-oid",
            "value": "35:51778771773587498"
          }
        ]
      },
      "data": [
        {
          "timestamp": 1580163130916,
          "value": "UP"
        },
        {
          "timestamp": 1580164709769,

```

```

        "value": "DOWN"
      },
      {
        "timestamp": 1580164889728,
        "value": "UP"
      }
    ]
  }
}

```

400

```

{
  "new_object_id": null,
  "id": "state_name_not_found",
  "message": "state name is not found.",
  "messageParams": [],
  "messages": [
    {
      "id": "state_name_not_found",
      "message": "state name is not found.",
      "field_name": null,
      "messageParams": []
    }
  ]
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/telemetry/catalog

Retrieves supported observed variables.

API	GET/telemetry/catalog
Description	Retrieves supported observed variables.
Parameters	None
Responses	200 - Success or error response

```

{
  "state": [
    {
      "object_type": "BGP",
      "state_name": [
        "bgp_neighbor"
      ]
    },
    {
      "object_type": "INTERFACE",
      "state_name": [
        "oper_state"
      ]
    },
    {
      "object_type": "SWITCH",
      "state_name": [
        "switch_streaming_state",

```

```

        "switch_reachability_state"
    ]
},
{
    "object_type": "FABRIC",
    "state_name": [
        "fabric_health"
    ]
},
{
    "object_type": "AGGREGATE_INTERFACE",
    "state_name": [
        "aggregate_interface"
    ]
}
],
"metrics": [
    {
        "object_type": "BGP",
        "metric_name": [
            "prefixes_received",
            "prefixes_sent",
            "prefixes_installed"
        ]
    },
    {
        "object_type": "INTERFACE",
        "metric_name": [
            "in_octets",
            "in_unicast_pkts",
            "in_broadcast_pkts",
            "in_multicast_pkts",
            "in_discards",
            "in_errors",
            "in_unknown_protos",
            "in_undersize_frames",
            "in_fragment_frames",
            "in_oversize_frames",
            "in_pkts",
            "out_pkts",
            "out_octets",
            "out_unicast_pkts",
            "out_broadcast_pkts",
            "out_multicast_pkts",
            "out_discards",
            "out_errors",
            "port_speed"
        ]
    },
    {
        "object_type": "SWITCH",
        "metric_name": [
            "up_time",
            "instant",
            "physical",
            "reserved",
            "mem_util",
            "last_known_uptime",
            "last_known_cpu_threshold_breach",
            "last_known_mem_threshold_breach"
        ]
    },
    {
        "object_type": "FABRIC",
        "metric_name": [
            "fabric_percent_degradation"
        ]
    },
    {
        "object_type": "AGGREGATE_INTERFACE",
        "metric_name": [
            "in_octets",

```

```

        "in_unicast_pkts",
        "in_broadcast_pkts",
        "in_multicast_pkts",
        "in_discards",
        "in_errors",
        "in_unknown_protos",
        "in_undersize_frames",
        "in_fragment_frames",
        "in_oversize_frames",
        "in_pkts",
        "out_pkts",
        "out_octets",
        "out_unicast_pkts",
        "out_broadcast_pkts",
        "out_multicast_pkts",
        "out_discards",
        "out_errors",
        "port_speed"
    ]
}
]
}

```

401 - Success or error response

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

POST/telemetry/connection/{switch-id}

Allows changing the connection status for a switch using the switch ID.

API POST/telemetry/connection/{switch-id}

Description Allows changing the connection status for a switch using the switch ID.

Parameters

Table 67. API parameters

Filter name	Description
switch-oid *	Unique identifier of the switch.
required	
string	
(<i>path</i>)	
action *	Action to perform on the switch.
required	
string	
(<i>query</i>)	

Responses 200 - Success or error response

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
date: Tue, 28 Jan 2020 05:54:53 GMT
server: nginx/1.15.2
status: 200

```

401 - Success or error response

```
access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401
```

GET/switch/{switch-id}

Retrieves all interface summaries for a specific switch using the switch ID.

API GET/switch/{switch-id}

Description Retrieves all interface summaries for a specific switch using the switch ID.

Parameters [Table 68. API parameters](#)

Filter name	Description
switch-id *	Unique identifier of the switch
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "switch_id": "2:51778771773521959",
  "total_count": null,
  "data": [
    {
      "data": [
        {
          "key": "host-name",
          "value": "sc2-t5-s4148-14"
        },
        {
          "key": "management-ip",
          "value": "10.175.18.64"
        },
        .
        .
        .
        {
          "key": "up_state_interface_count",
          "value": "7"
        },
        {
          "key": "established_state_bgp_neighbor_count",
          "value": "1"
        },
        {
          "key": "up_state_lag_count",
          "value": "1"
        }
      ]
    }
  ]
}
```



```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/switch/{switch-id}/interface

Retrieves a specific interface summary for a switch using the switch ID.

API GET/switch/{switch-id}/interface

Description Retrieves a specific interface summary for a switch using the switch ID.

Parameters [Table 69. API parameters](#)

Filter name	Description
switch-id *	Unique identifier of the switch.
required	
string	
(<i>path</i>)	
start	Start an index of the interface records.
integer	
(<i>query</i>)	
count	Number of the interface records to retrieve.
integer	
(<i>query</i>)	

Responses 200 - Success or error response

```

{
  "switch_id": "2:51778771773521959",
  "total_count": 7,
  "data": [
    {
      "data": [
        {
          "key": "in_octets",
          "value": "36193709"
        },
        {
          "key": "in_unicast_pkts",
          "value": "290709"
        },
        {
          "key": "in_broadcast_pkts",
          "value": "50960"
        },
        .
        .
        .
        {
          "key": "oper_state",
          "value": "UP"
        },
        {

```

```

        "key": "admin_state",
        "value": "UP"
      }
    ]
  }
}

```

400

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/interface/{interface id}

Retrieves a summary of a specified interface using the interface ID.

API GET/interface/{interface id}

Description Retrieves a summary of a specified interface using the interface ID.

Parameters

Table 70. API parameters

Filter name	Description
interface-id *	Unique identifier of the interface.
required	
string	
(path)	

Responses 200 - Success or error response

```

{
  "switch_id": null,
  "total_count": null,
  "data": [
    {
      "data": [
        {
          "key": "in_octets",
          "value": "36351671"
        },
        {
          "key": "in_unicast_pkts",
          "value": "291980"
        },
        {
          "key": "in_broadcast_pkts",
          "value": "51177"
        }
      ],
      .
      .
      .
      {
        "key": "admin_state",
        "value": "UP"
      },
      {
        "key": "oper_state",
        "value": "UP"
      }
    }
  ]
}

```

```

    },
    {
      "key": "interface-type",
      "value": "TYPE_ETHERNET"
    }
  ]
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/switch/{switch-id}/bgp

Retrieves all BGP neighbor summary information for a specified switch using the switch ID.

API GET/switch/{switch-id}/bgp

Description Retrieves all BGP neighbor summary information for a specified switch using the switch ID.

Parameters

Table 71. API parameters

Filter name	Description
switch-id *	Unique identifier of the switch.
required	
string	
(path)	

Responses 200 - Success or error response

```

{
  "switch_id": "2:51778771773521959",
  "total_count": null,
  "data": [
    {
      "data": [
        {
          "key": "prefixes_received",
          "value": "4"
        },
        {
          "key": "prefixes_sent",
          "value": "2"
        },
        {
          "key": "prefixes_installed",
          "value": "4"
        },
        {
          "key": "state",
          "value": "ESTABLISHED"
        },
        {
          "key": "neighbor-oid",
          "value": "72:51778774711206129"
        }
      ]
    }
  ]
}

```

```

    {
      "key": "neighbor-ip",
      "value": "192.168.0.2"
    }
  ]
}
]
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/switch/{switch-id}/lag

Retrieves all LAG summary information for a specified switch using the switch ID.

API GET/switch/{switch-id}/lag

Description Retrieves all LAG summary information for a specified switch using the switch ID.

Parameters

Table 72. API parameters

Filter name	Description
switch-id * required string (<i>path</i>)	Unique identifier of the switch.
start integer (<i>query</i>)	Start an index of the interface records.
count integer (<i>query</i>)	Number of interface records to retrieve.

Responses 200 - Success or error response

```

{
  "switch_id": "2:51778771773521959",
  "total_count": 1,
  "data": [
    {
      "data": [
        {
          "key": "interface-name",
          "value": "port-channel1"
        },
        {
          "key": "lag-member-interface",
          "value": "ethernet1/1/26"
        },
        {
          "key": "oper_state",

```

```

        "value": "UP"
      },
      {
        "key": "admin_state",
        "value": "UP"
      }
    ]
  }
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401

```

GET/switches/summary

Retrieves summary information of all switches.

API	GET/switches/summary
Description	Retrieves summary information of all switches.
Parameters	None
Responses	200 - Success or error response

```

{
  "data": [
    {
      "id": "2:51778771768737795",
      "name": "sc2-t5-z9100-s2",
      "service_tag": "65VZZP2",
      "model": "Z9100-ON 32x100GbE QSFP28, 2x10GbE SFP+ Interface Module",
      "os_version": "10.5.0.3P2",
      "status": "SWITCHSTATE_REACHABLE"
    },
    {
      "id": "2:51778771773521959",
      "name": "sc2-t5-s4148-l4",
      "service_tag": "B0JNXC2",
      "model": "S4148F-ON 48x10GbE, 2x40GbE QSFP+, 4x100GbE QSFP28 Interface
Module",
      "os_version": "10.5.0.3P2",
      "status": "SWITCHSTATE_REACHABLE"
    },
    {
      "id": "2:51778771772669974",
      "name": "sc2-t5-s4148-l3",
      "service_tag": "DZHNXC2",
      "model": "S4148F-ON 48x10GbE, 2x40GbE QSFP+, 4x100GbE QSFP28 Interface
Module",
      "os_version": "10.5.0.3P2",
      "status": "SWITCHSTATE_REACHABLE"
    }
  ]
}

```

401

```

access-control-allow-headers: Content-Type
access-control-allow-methods: GET, POST, DELETE, PUT

```

```
access-control-allow-origin: *
cache-control: must-revalidate,no-cache,no-store
date: Tue, 28 Jan 2020 05:39:50 GMT
server: nginx/1.15.2
status: 401
```

POST/wiring-diagrams

Uploads the fabric design file in JSON format.

API POST/wiring-diagrams

Description Uploads the fabric design file in JSON format. The Wiring diagram is collection of Leaf-and-Spine switches and the connections between them. You can upload multiple wiring diagrams.

Parameters [Table 73. API parameters](#)

Filter name	Description
designFile	The design file to upload.

Responses 200 - Success or error response

```
{
  "new_object_id": "210:51778176823451697",
  "id": "topology_uploaded_successfully",
  "message": "File uploaded successfully.",
  "messageParams": [],
  "messages": [
    {
      "id": "topology_uploaded_successfully",
      "message": "File uploaded successfully.",
      "field_name": null,
      "messageParams": []
    }
  ]
}
```

400 - Invalid request - uploaded file is not valid.

401 - You are not authorized to perform this operation.

DELETE/wiring-diagrams/{id}

Deletes a wiring diagram.

API DELETE/wiring-diagrams/{id}

Description Deletes a wiring diagram. You can delete only inactive wiring diagrams.

Parameters [Table 74. API parameters](#)

Filter name	Description
id	Unique identifier of the wiring diagram.
string	
(path)	

Responses 200 - Success or error response

```
{
  "new_object_id": "210:51778176823451697",
  "id": "wiring_diagram_delete_success",
  "message": "Wiring diagram deleted successfully.",
}
```

```

    "messageParams": [],
    "messages": [
      {
        "id": "wiring_diagram_delete_success",
        "message": "Wiring diagram deleted successfully.",
        "field_name": null,
        "messageParams": []
      }
    ]
  }
}

```

401 - You are not authorized to perform this operation.

404 - Requested entity does not exist.

GET/wiring-diagrams/{id}/topology

Returns the physical topology that is created from this wiring diagram.

API GET/wiring-diagrams/{id}/topology

Description Returns the physical topology that is created from this wiring diagram.

Parameters [Table 75. API parameters](#)

Filter name	Description
id	Unique identifier of the wiring diagram.
string	
(<i>path</i>)	

Responses 200 - Success or error response

```

{
  "id": "11:51771176548663297",
  "name": "Setup02-NFC-2-Spine-4-Leaf-Fabric",
  "fabric_type": "L3_BGP",
  "switches": [
    {
      "id": "2:51771176555151441",
      "name": "sc2-t2-s5224-13",
      "model": "",
      "serial_number": "",
      "switch_service_tag": "",
      "position": 203,
      "role": "LEAF",
      "peer_switch_id": null,
      "mgmt_ip_address": "10.175.18.42",
      "states": {
        "switch_state": null,
        "error_detail": null
      },
      "interfaces": [
        {
          "id": "35:51771176555184212",
          "name": "ethernet1/1/19:1",
          "type": "ETHERNET",
          "role": "VLTLINK",
          "speed": "UNKNOWN",
          "state": null
        },
        .
        .
        .
        {
          "id": "35:51771176554627132",
          "name": "mgmt1/1/1",
          "type": "ETHERNET",

```

```

    "role": "MANAGEMENT",
    "speed": "UNKNOWN",
    "state": null
  }
]
},
"connections": [
  {
    "id": "13:51771176558461052",
    "name": "L1-Port1/1/20:1-l2-Port1/1/20:1",
    "source_switch_id": "2:51771176554102825",
    "destination_switch_id": "2:51771176554692670",
    "source_switch_interface_id": "35:51771176554266672",
    "destination_switch_interface_id":
    "35:51771176554823747",
    "role": "VLTLINK",
    "states": {
      "defined": true,
      "discovered": false,
      "operational": null
    }
  },
  {

```

401 - You are not authorized to perform this operation.

GET/wiring-diagrams/summary

Lists all imported wiring diagram summaries.

API	GET/wiring-diagrams/summary
Description	Retrieves a summary of all the imported wiring diagrams.
Parameters	None
Responses	200 - Success or error response

```

{
  "data": [
    {
      "id": "210:51778176823451697",
      "name": "Plan2-SFD-2-Spine-4-Leaf-Fabric",
      "description": "Leaf-spine topology",
      "fabric_type": "L3_BGP",
      "status": "INACTIVE",
      "user_info": {
        "created_by": "admin@sfd.local",
        "created_at": 1580144556379,
        "last_updated_by": "",
        "last_updated_at": 0
      }
    },
    {
      "id": "210:51771176547909632",
      "name": "Setup02-NFC-2-Spine-4-Leaf-Fabric",
      "description": "Leaf-spine topology",
      "fabric_type": "L3_BGP",
      "status": "ACTIVE",
      "user_info": {
        "created_by": "admin@sfd.local",
        "created_at": 1579930924929,
        "last_updated_by": "",
        "last_updated_at": 0
      }
    }
  ]
}

```


GET/wiring-diagrams/{id}/compatible-intents

Returns all compatible intents for this wiring diagram.

API GET/wiring-diagrams/{id}/compatible-intents

Description Returns all compatible intents for this wiring diagram.

Parameters

Table 76. API parameters

Filter name	Description
id	Unique identifier of the wiring diagram.
string (<i>path</i>)	

Responses 200 - Success or error response

```
{
  "data": [
    {
      "fabric_intent_id": "41:51771177706553346",
      "name": "nfc",
      "fabric_type": "L3_BGP",
      "status": "ACTIVE"
    },
    {
      "fabric_intent_id": "41:51771215306326025",
      "name": "nfc-1579932107739",
      "fabric_type": "L3_BGP",
      "status": "DRAFT"
    },
    {
      "fabric_intent_id": "41:51776562459279527",
      "name": "intent-new",
      "fabric_type": "L3_BGP",
      "status": "DRAFT"
    },
    {
      "fabric_intent_id": "41:51776466356076705",
      "name": "nfc-1579932107739-1580092357060",
      "fabric_type": "L3_BGP",
      "status": "APPROVED"
    }
  ]
}
```

401 - You are not authorized to perform this operation.

GET/system-settings

Returns a list of SFD system settings.

API GET/system-settings

Description Returns a list of SFD system settings.

Parameters None

Responses 200 - Get system settings configured with SFD

```
{
  "system_name": "string",
  "gateway_ip": "string",
  "ntp": {
    "data": [
      "string"
    ]
  }
}
```

```

]
},
"dns": {
  "data": [
    "string"
  ]
}
}

```

401 - You are not authorized to perform this operation.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

PUT/system-settings/gateway

Configures the default gateway in SFD.

API	PUT/system-settings/gateway
Description	Configures the default gateway in SFD.

Parameters

Table 77. API parameters

Filter name	Description
body * required (body)	Configure the default gateway. For example: <pre>{ "gateway": "string" }</pre>

Responses

201 - New entity created successfully.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

```
}
]
}
```

POST/system-settings/ntp

Configures the NTP server in SFD.

API POST/system-settings/ntp

Description Configures the NTP server in SFD.

Parameters

Table 78. API parameters

Filter name	Description
body *	Configure the NTP server. For example:
required	
(body)	<pre>{ "url": "string" }</pre>

Responses

201 - New entity created successfully.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

DELETE/system-settings/ntp/{ntp_server}

Deletes the NTP server from SFD.

API DELETE/system-settings/ntp/{ntp_server}

Description Deletes the NTP server from SFD.

Parameters

Table 79. API parameters

Filter name	Description
ntp_server * required string (path)	Delete the NTP server.

Responses 200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
```

```

    "messageParams": [
      "string"
    ],
    "messages": [
      {
        "id": "string",
        "message": "string",
        "field_name": "string",
        "messageParams": [
          "string"
        ]
      }
    ]
  }
}

```

404 - Requested entity does not exist.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

Default - Success or error response

```

"new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}

```

POST/system-settings/dns

Configures the DNS server in SFD.

API	POST/system-settings/dns
Description	Configures the DNS server in SFD.

Parameters

Table 80. API parameters

Filter name	Description
body * required (body)	Configure the DNS server. For example: <pre>{ "url": "string" }</pre>

Responses

201 - New entity created successfully.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

401 - You are not authorized to perform this operation.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

Default - Success or error response

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

```
}  
]  
}
```

DELETE/system-settings/dns/{dns_server}

Deletes the DNS server from SFD.

API DELETE/system-settings/dns/{dns_server}

Description Deletes the DNS server from SFD.

Parameters

Table 81. API parameters

Filter name	Description
dns_server * required string (path)	Delete the DNS server.

Responses 200 - Success or error response

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```

401 - You are not authorized to perform this operation.

```
{  
  "new_object_id": "string",  
  "id": "string",  
  "message": "string",  
  "messageParams": [  
    "string"  
  ],  
  "messages": [  
    {  
      "id": "string",  
      "message": "string",  
      "field_name": "string",  
      "messageParams": [  
        "string"  
      ]  
    }  
  ]  
}
```


404 - Request entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams": [
        "string"
      ]
    }
  ]
}
```

GET/activities

Retrieves the NFC activities.

API GET/activities

Description Retrieves the NFC activities.

Parameters

Table 82. API parameters

Filter name	Description
start-time	For example: <div style="background-color: #f0f0f0; padding: 2px;">1580018307706</div>
end-time	For example: <div style="background-color: #f0f0f0; padding: 2px;">1580104707706</div>

Responses 200 - Success or error response

```
{
  "data": [
```

```
{
  "id": "190:51774078941167775",
  "activity_type": "FABRIC_CONFIG",
  "sub_type": "CONFIG_REPLAY",
  "start_time": 1580019498937,
  "end_time": 1580019505842,
  "status": "SUCCESS",
  "referenced_id": "41:51771177706553346",
  "fabric_intent_deployment_id": "151:51774078940348574",
  "name": "nfc",
  "message": "Switch: 'sc2-t2-z9100-s2' restarted. Provisioning the
switch."
}
]
```

GET/about

Retrieves information about SFD.

API	GET/about
Description	Retrieves information about SFD.
Parameters	None
Responses	200 - Success or error response

```
{
  "version": "1.1.0.1579914047",
  "service_tag": ""
}
```

GET/system/health

Retrieves overall SFD health information.

API	GET/system/health
Description	Retrieves overall SFD health information.
Parameters	None
Responses	

```
{
  "status": "ACTIVE"
}
```

POST/system/ping

Ping the REST service.

API	POST/system/ping
Description	Ping the REST service.
Parameters	None
Responses	

```
{
  "ping": "pong"
}
```

POST/lcm/update-job

Create a job to update the switch image.

API POST/lcm/update-job

Description Create a job to update the switch image. After the job is created, it is submitted for approval. The job can either be scheduled or started at that instant. A job must be in the Approved state to deploy.

Parameters

Table 83. API parameters

Filter name	Description
body	For example: <pre>{ "image_server_oid": "string", "switch_group_oid": "string", "image_file_name": "string", "extended_path": "string", "name": "string", "description": "string" }</pre>

Responses 201 - New entity created successfully.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

400 - Invalid request.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

GET/lcm/update-job

Retrieves information for all switch image update jobs.

API	GET/lcm/update-job
Description	Retrieves information for all switch image update jobs.
Parameters	None.
Responses	200 - Success or error response

```
"data":
{
  "id": "string",
  "name": "string",
  "description": "string",
  "job_type": "SCHEDULED",
  "scheduled_at": 0,
  "image_file_name": "string",
  "job_state": "DRAFT",
  "switch_group": {
    "id": "string",
    "name": "string"
  },
  "switch_members":
  {
```

```
    "id": "string",
    "name": "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string", "
    messageParams":
    "string"
  }
}
```

GET/lcm/update-job/{id}

Retrieves information for a switch image update job using the request ID.

API GET/lcm/update-job/{id}

Description Retrieves information for a switch image update job using the request ID.

Parameters

Table 84. API parameters

Filter name	Description
id *	Unique identifier of the switch image update job.
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "id": "string",
  "name": "string",
  "description": "string",
  "job_type": "SCHEDULED",
  "scheduled_at": 0,
  "image_file_name": "string",
  "job_state": "DRAFT",
  "switch_group": {
    "id": "string",
    "name": "string"
  },
  "switch_members":
  {
    "id": "string",
    "name": "string"
  }
  /
  "image_server": {
    "id": "string",
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  new_object_id: "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
```

```

    "id": "string",
    "message": "string",
    "messageParams":
    "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string", "
  messageParams":
  "string"
  ,
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

PUT/lcm/update-job/{id}

Update a switch image update job using the requested ID.

API PUT/lcm/update-job/{id}

Description Update a switch image update job using the requested ID.

Parameters

Table 85. API parameters

Filter name	Description
id *	Unique identifier of the image update job.
required	
string	
(path)	
body	For example:

```

{
  "image_server_oid": "string",
  "switch_group_oid": "string",
  "image_file_name": "string",
  "extended_path": "string",
  "name": "string",
  "description": "string"
}

```

Responses

200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
```



```

"string"
,
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
  "string"
}
}

```

DELETE/lcm/update-job/{id}

Deletes a switch image update job.

API DELETE/lcm/update-job/{id}

Description Deletes a switch image update job.

Parameters

Table 86. API parameters

Filter name	Description
id *	Unique identifier of the switch image update job.
required	
string	
(<i>path</i>)	

Responses 200 - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
,
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
  "string"
}
}

```

400 - Invalid request.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
,
"messages":
{
  "id": "string",
  "message": "string",

```

```
    "field_name": "string",
    "messageParams":
      "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
    "string"
  /
  "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
        "string"
    }
}
```

POST/lcm/update-job/{id}/approval-request

Request approval for a switch image update job.

API POST/lcm/update-job/{id}/approval-request

Description Request approval for a switch image update job.

Parameters

Table 87. API parameters

Filter name	Description
id *	Unique identifier of the switch image update job.
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

400 - Invalid request.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
}
```

```

    /
    "messages":
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}

```

404 - Requested entity does not exist.

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

Default - Success or error response

```

{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}

```

POST/lcm/update-job/{id}/cancel

Request to cancel a switch image update job.

API POST/lcm/update-job/{id}/cancel

Description Request to cancel a switch image update job.

Parameters

Table 88. API parameters

Filter name	Description
id *	Unique identifier of the switch image update job.

Filter name	Description
-------------	-------------

required
string
(*path*)

Responses

200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

```
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

POST/lcm/update-job/{id}/deploy

Request to deploy a switch image update job.

API POST/lcm/update-job/{id}/deploy

Description Request to deploy a switch image update job. You must specify if the job is scheduled or deployed now. If you specify scheduled, it deploys at that time. To deploy a job, it must be in the Approved state.

Parameters

Table 89. API parameters

Filter name	Description
id *	Unique identifier of the switch image update job.
required	
string	
(path)	
body	For example:
	<pre>{ "job_type": "SCHEDULED", "scheduled_at": 0 }</pre>

Responses 200 - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

```
    "string"
  }
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

Default - Success or error response

```
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  /
  "messages":
  {
    "id": "string",
    "message": "string",
    "field_name": "string",
    "messageParams":
    "string"
  }
}
```

POST/lcm/update-job/{id}/status

Request to get the status of a specific switch image update job.

API POST/lcm/update-job/{id}/status

Description Request to get the status of a specific switch image update job.

Parameters

Table 90. API parameters

Filter name	Description
id *	Unique identifier of the switch image job.
required	
string	
(path)	

Responses 200 - Success or error response

```
{
  "data":
  {
    "switch_member": {
      "id": "string",
      "name": "string"
    },
    "update_progress_status": "DOWNLOAD_IN_PROGRESS",
    "error": "NOT_SET",
    "download_status": {
      "status": "NOT_SET",
      "file_transfer_status": {
        "progress_percentage": 0,
        "start_time": 0,
        "end_time": 0,
        "file_size": 0,
        "transfer_rate": 0,
        "message": "string"
      }
    }
  },
}
```

401 - You are not authorized to perform this operation.

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
  ,
  "messages":
  {
    {
      "id": "string",
      "message": "string",
      "field_name": "string",
      "messageParams":
      "string"
    }
  }
}
```

404 - Requested entity does not exist.

```
{
  "new_object_id": "string",
  "id": "string",
}
```



```
"message": "string",
"messageParams":
"string"
,
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
  "string"
}
}
```

Default - Success or error response

```
{
  "new_object_id": "string",
  "id": "string",
  "message": "string",
  "messageParams":
  "string"
,
"messages":
{
  "id": "string",
  "message": "string",
  "field_name": "string",
  "messageParams":
  "string"
}
}
```

Models

This information lists the configuration models.

LoginRequest (...)
ExtendRequest (...)
LoginResponse
CommonApiResponse
TopologyStatus
FabricTopology
SwitchTopology
InterfaceTopology
ConnectionTopology
InterfaceTypeEnum
InterfaceRoleEnum
OperationStateEnum
FabricAdminStateEnum
SwitchTopologyState
ConnectionTopologyState
NetworkStates
BGP
FabricIntent
FabricConfig
NetworkConfig
NetworkTypeEnum
BgpNeighbors
BgpConfiguration
InterfaceMember
LacpAggregateInterface
SwitchNetworkConfig
InterfaceNetwork
InterfaceAddress
ConnectionNetworkConfig
FabricIntentResponse
FabricSummaryInfo
FabricSummary