

Dell EMC SmartFabric Director

REST API Guide Release 1.2

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.

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Revision history

This table provides an overview of the changes in this guide.

Table 1. Revision history

Release	Revision	Description
1.2.0	A02 (June 2020)	Organized APIs by feature; added POST /system/license-file
1.1.0	A01 (January 2020)	Initial release

Using the REST API

Representational state transfer (REST) is a software architectural style that defines constraints that are used to provide interoperability between 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.

SmartFabric Director (SFD) browser-based GUI uses REST APIs to interface with SFD. Any client that wants to interface with SFD must use these REST APIs, typically over 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. The GET method is read-only. The GET, PUT, and DELETE methods are *idempotent*, meaning that applying these methods multiple times to a resource results in the same state change of the resource as applying them once, though the response may differ.

Security and authentication

Key	<code>sfd_api_key</code>
Type	<code>apiKey</code>
Description	Token that is retrieved from login request should be sent in authorization header with value <code>SFD {token}</code> .

Returns information about SFD.

Topics:

- [GET /about](#)

GET /about

Retrieves information about SFD.

API	GET/ about
Description	This API retrieves SFD version and service tag information.
Parameters	None
Responses	200 — Get SFD version and service tag information

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

401 — You are not allowed 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"
      ]
    }
  ]
}
```

```
]
}
]
}
```

Alerts

Alerts generated in SFD.

Topics:

- GET /alerts
- POST /alerts/{id}/ack
- POST /alerts/{id}/unack
- POST /alerts/{id}/clear
- GET /alerts/{id}/events

GET /alerts

Retrieves alerts generated in SFD.

API GET /alerts

Description

This API returns all active alerts that are generated within SFD. An alert is raised when an instance of an event type occurs with certain severity level. An alert is cleared when an instance of an event type occurs with certain severity level. For example, CPU usage crossing a threshold *X* raises `HIGH_CPU_USAGE_ALERT`, and CPU usage below a threshold *X* clears `HIGH_CPU_USAGE_ALERT`.

Parameters

Table 2. API parameters

Filter name	Description
type string (<i>query</i>)	Gets all active alerts based on the alert type that is generated within SFD. <code>INTERFACE_LINK_DOWN_ALERT</code>
severity string (<i>query</i>)	Gets all active alerts based on the alert severity that is generated within SFD. <code>WARNING, ERROR or CRITICAL</code>
referenced-object-id string (<i>query</i>)	Gets all active alerts generated on the referenced object id. The referenced object id is the unique identifier of the SFD-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 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	Gets all active alerts based on the alert state that is generated within SFD. The alert state can be OPEN or ACK.

Table 2. API parameters (continued)

Filter name	Description
(<i>query</i>)	

Responses

200 — Response to get all the active alerts

```
{
  "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

```
{
  "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 /alerts/{id}/ack

Updates the state of an alert to the ACK state.

API POST /alerts/{id}/ack

Description This API updates the state of an alert from OPEN to ACK state.

Parameters

Table 3. API parameters

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

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

```
{
  "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": []
    }
  ]
}
```

404 — Requested entity does not exist

```
{
  "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": []
    }
  ]
}
```

default — 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": []
    }
  ]
}
```

POST /alerts/{id}/unack

Updates the state of an alert to the OPEN state.

API POST /alerts/{id}/unack

Description This API updates the state of an alert from ACK to OPEN state.

Parameters

Table 4. API parameters

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

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

```
{
  "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": []
    }
  ]
}
```

404 — Requested entity does not exist

```
{
  "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": []
    }
  ]
}
```

default — 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": []
    }
  ]
}
```

POST /alerts/{id}/clear

Clears an alert.

API

POST /alerts/{id}/clear

Description

This API clears a specific alert, then deletes it from the active alerts list.

Parameters

Table 5. API parameters

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

Responses

200 — Success or error response

```
{
  "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

```
{
  "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": []
    }
  ]
}
```

404 — Requested entity does not exist

```
{
  "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": []
    }
  ]
}
```

default — Success or error response

```
{
  "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": []
    }
  ]
}
```

GET /alerts/{id}/events

Retrieves a list of events for a specific alert.

API GET /alerts/{id}/events

Description This API returns the list of events related to an alert.

Parameters

Table 6. API parameters

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

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

```
{
  "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": []
    }
  ]
}
```

404 — Requested entity does not exist

```
{
  "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": []
    }
  ]
}
```

default — Success or error response

```
{
  "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": []
    }
  ]
}
```

Authentication

Provides access to APIs.

Topics:

- POST /auth/token
- POST /auth/token/extend
- GET /auth/users
- POST /auth/users
- GET /auth/users/{userId}
- PUT /auth/users/{userId}
- DELETE /auth/users/{userId}
- PUT /auth/users/{userId}/password
- PUT /auth/users/self/password
- PUT /auth/users/{userId}/cli-access
- PUT /auth/users/{userId}/user-role
- PUT /auth/users/{userId}/user-state
- GET /auth/domains
- GET /auth/servers/ldap
- PUT /auth/servers/ldap
- DELETE /auth/servers/ldap

POST /auth/token

Retrieves a new token.

API POST /auth/token

Description This API returns an authentication token to be used for access.

Parameters

Table 7. API parameters

Filter name	Description
body required (<i>body</i>)	Login request to get the access token. <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

Creates an extend request for an access token.

API POST /auth/token/extend

Description This API returns an access token with a new expiry time.

Parameters

Table 8. API parameters

Filter name	Description
body required (<i>body</i>)	Extend token request to get a new access token. <pre>{ "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"
        ]
      }
    ]
  }
}

```

GET /auth/users

Retrieves all user information.

API	GET/auth/users
Description	This API returns all user records.
Request parameters	None
Responses	200 — Get all user details configured with SFD

```

{
  "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"
      ]
    }
  ]
}
```

POST /auth/users

Creates a new local user.

API POST /auth/users

Description This API creates a local SFD user.

Parameters

Table 9. API parameters

Filter name	Description
body required (<i>body</i>)	Create a new local user. <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/{userId}

Retrieves specific user information.

API GET /auth/users/{userId}

Description This API returns user information based on the specific user ID.

Parameters

Table 10. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId to obtain user information.

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"
      ]
    }
  ]
}

```

```
}  
]  
}
```

PUT /auth/users/{userId}

Updates information for a specific user.

API PUT /auth/users/{userId}

Description This API updates user information based on the user ID. Users can change their own data, and users with ADMIN role can update the user data of others.

Parameters

Table 11. API parameters

Filter name	Description
userId required string (<i>path</i>)	userId parameter as input to update user information.
body required (<i>body</i>)	Update user data. <pre>{ "first_name": "string", "last_name": "string", "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"
      ]
    }
  ]
}
```

DELETE /auth/users/{userId}

Deletes a specified user.

API DELETE/auth/users/{userId}

Description This API deletes a specific user based on the user ID. Users can delete their own data, and users with ADMIN privileges can delete the user data of others. The ADMIN user cannot be deleted.

Parameters

Table 12. API parameters

Filter name	Description
userId * required string (<i>path</i>)	userId parameter as input to delete a user.

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}/password

Modifies the current user password.

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

Description This API modifies the user password. The user must have ADMIN privileges.

Parameters

Table 13. API parameters

Filter name	Description
userId required string (<i>path</i>)	userId parameter to change user password.
changeUserPassword required (<i>body</i>)	Password parameter used to change the user password. <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/self/password

Changes a user password.

API PUT /auth/users/self/password

Description This API allows the user to change their existing password.

Parameters

Table 14. API parameters

Filter name	Description
changeSelfPassword required (<i>body</i>)	Password parameter used to change the password of a user. <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/users/{userId}/cli-access

Modifies user CLI access permissions.

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

Description This API changes user CLI access. The user must have ADMIN privileges.

Parameters

Table 15. 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. <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 This API changes the role of the user. The user must have ADMIN privileges.

Parameters

Table 16. 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. <pre>{ "user_role": "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/{userId}/user-state

Changes the user state.

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

Description This API changes the user state. The user must have ADMIN privileges.

Parameters

Table 17. 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. <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"
    ]
  }
]
```

GET /auth/domains

Returns the configured auth domains.

API	GET /auth/domains
Description	This API returns configuration information for auth domains.
Requests	None
Responses	200 — Get all the auth domains configured with SFD

```
{
  "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 LDAP server attributes.

API	GET /auth/servers/ldap
Description	This API returns the LDAP server configuration information.
Requests	None
Responses	200 — Get LDAP server details configured with the SFD

```
{
  "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/servers/ldap

Configures LDAP server information.

API PUT /auth/servers/ldap

Description This API configures LDAP server credentials to verify authentication with the URL.

Parameters

Table 18. API parameters

Filter name	Description
body * required (<i>body</i>)	Configure LDAP with the URL and credentials. <pre>{ "url": "ldap:// ds.example.com:389", "username": "admin", "password": "adminPassword", "attributes": "dc=example,dc=com" }</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 /auth/servers/ldap

Removes the LDAP server.

API	DELETE /auth/servers/ldap
Description	This API deletes the configured LDAP server from SFD.
Request 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"
      ]
    }
  ]
}
```

Configuration

Switch configuration based on fabric intent.

Topics:

- [GET /fabric-intents/{fabric-intent-id}/configuration/vlans](#)

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 This API returns the generated configuration for host networks. This comprises VLANs , port channel and member interfaces. The port channel information will be returned for the deployed fabric intents. This also return the lag id for leaf pairs for the port channel.

Parameters

Table 19. API parameters

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

Responses

200 — Success response to retrieve the VLAN configuration for fabric intent

```
{
  "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
    }
  ]
}
```

```
]
}
```

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"
      ]
    }
  ]
}
```

Edge-leaf

Edge-leaf service APIs.

Topics:

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

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 This API retrieves all edge connections.

Parameters

Table 20. API parameters

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

Response status codes 200 — Response to retrieve all edge-connections

```
{
  "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-l4-edge"
  }
}
]
}

```

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"
        ]
      }
    ]
  }
}

```

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 This API creates an Edge connection for a specific fabric intent ID. Edge connectivity helps fabric to communicate with workloads outside of the fabric.

Parameters

Table 21. API parameters

Filter name	Description
fabric-intent-id string (path)	Unique identifier of the fabric intent.
body	Edge connection object parameters. For example: <pre> { "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" } </pre>

Responses 201 — 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

```
{  
  "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 /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 This API retrieves an edge connection for a specific fabric intent using the fabric intent ID.

Parameters

Table 22. API parameters

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

Responses 200 — Response for get edge connections by Id

```

{
  "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

```

{
  "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 /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 This API updates an edge connection for a specific fabric intent using the fabric intent ID. Edge connectivity helps fabric to communicate with workloads outside of the fabric.

Parameters

Table 23. API parameters

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

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"
      ]
    }
  ]
}

```

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 This API deletes an Edge connection for a specific fabric intent using the fabric intent ID. Edge connectivity helps fabric communicate with workloads outside of the fabric.

Parameters

Table 24. API parameters

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

Response status codes 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

```
{
  "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"
      ]
    }
  ]
}
```

Events

Events generated in SFD.

Topics:

- [GET /events](#)
- [GET /events/{id}](#)

GET /events

Retrieves a list of SFD event information.

API `GET /events`

Description This API returns all the events generated within SFD.

Parameters

Table 25. API parameters

Filter name	Description
type string (<i>query</i>)	Gets all the NFC events based on the event type that is generated within SFD. INTERFACE_LINK_DOWN_EVENT
severity string (<i>query</i>)	Gets all the active events based on the event severity that is generated within SFD. CLEAR, INFO, WARNING, ERROR or CRITICAL
referenced-object-id string (<i>query</i>)	Gets all the SFD events that are generated on the referenced object id. The referenced object id is the unique identifier of the SFC-managed object.
start-time integer (int64) (<i>query</i>)	Gets all the SFD 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 SFD 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 — Response to get all SFD events

```
{
  "data": [
    {
      "id": "131:51771176736718976",
      "type": "WIRING_IMPORTED",
      "severity": "INFO",
      "timestamp": 1579930930684,
      "message": "Wiring design - 'Setup02-SFD-2-Spine-4-Leaf-Fabric' has been
```

```

imported.",
  "referenced_object_id": {
    "id": "210:51771176547909632",
    "type": "SFD_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": "SFD_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": "SFD_EVENTS"
  }
}
]
}

```

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 /events/{id}

Returns SFD event information.

API GET /events/{id}

Description This API returns event information based on a specific event ID.

Parameters

Table 26. API parameters

Filter name	Description
*id required string (<i>path</i>)	Unique identifier of the SFD event.

Responses

200 — Response to get an SFD event

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

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"
      ]
    }
  ]
}
```

SFD fabrics.

Topics:

- [GET /fabrics](#)

GET /fabrics

Retrieves a summary of all fabrics.

API	GET /fabrics
Description	Fabric object is created when any fabric intent is deployed. This fabric object points to the FabricIntent which is active and gives Operational state of the FabricIntent.
Request parameters	None
Response error codes	200 — Response for get all fabric objects

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

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"  
    ]  
  }  
]  
}
```

Fabrics-intents

Fabric intent provisioning.

Topics:

- GET /fabrics-intents
- POST /fabrics-intents
- GET /fabrics-intents/{id}
- PUT /fabrics-intents/{id}
- DELETE /fabric-intents/{id}
- POST /fabrics-intents/{id}/clone
- POST /fabrics-intents/{id}/check-deploy-impact
- GET /fabrics-intents/{id}/configuration
- 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}/deploy-status
- GET /fabrics-intents/{fabric-intent-id}/deployments/{deployment-id}

GET /fabrics-intents

Returns all fabric intents.

API	GET /fabrics-intents
Description	This API retrieves all fabric intents.
Parameters	None
Responses	200 — Response to get all fabric intents

```
{
  "data": [
    {
      "id": "41:51771177706553346",
      "name": "sfd",
      "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
      }
    }
  ]
}
```

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 /fabrics-intents

Provides input parameters for the network intent.

Description

A fabric intent is a desired state of network and is achieved by providing seed configurations. SFD will translate the provided fabric intent to the configurations and will deploy to physical switches in the topology. Fabric intent will contain many objects which define the desired need of network like interlink, host-networks, Edge connectivity, and so on. Once the fabric intent is deployed, it is then moved to ACTIVE state. Edits in ACTIVE state are not allowed. User needs to close the ACTIVE intent, then a new fabric intent will be created in DRAFT state. All contained objects will also be cloned.

Parameters

Table 27. 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", "as_leaf": 0, "as_spine": 0 }, "ufd": true, "rstp": true } }</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 /fabrics-intents/{id}

Retrieves the configured fabric intent.

API GET /fabrics-intents/{id}

Description This API retrieves a fabric intent represented by the requested id.

Parameters

Table 28. API parameters

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

Responses 200 — Response to get a fabric intent

```

{
  "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 — 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 /fabrics-intents/{id}

Updates the configured fabric intent.

API PUT /fabrics-intents/{id}

Description This API updates the fabric intent.

Parameters

Table 29. API parameters

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

Deletes a fabric intent.

API DELETE /fabric-intents/{id}

Description This API deletes a fabric intent represented by the requested id.

Parameters

Table 30. API parameters

Filter name	Description
*id string (<i>path</i>)	Unique identifier of the fabric intent. For example: 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": []
    }
  ]
}

```

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 /fabrics-intents/{id}/clone

Clones a fabric intent

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

Description This API clones a fabric intent represented by the requested id. A new fabric intent in DRAFT state will be cloned, along with all contained objects.

Parameters

Table 31. API parameters

Filter name	Description
*id string (<i>path</i>)	Unique identifier of the fabric intent. For example: 41:3A51771215306326025
wiring_diagram_id* string (<i>body</i>)	Object id of wiring-diagram on which this intent will be applied.

Responses 201 — New entity created successfully

```
{
  "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": []
    }
  ]
}
```

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

Checks the impact of the specified fabric intent deployment.

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

Description This API checks the impact of this fabric intent before deployment. Before deploying fabric intent, check can be done if the deployment of this fabric intent is service impacting or not.

Parameters

Table 32. API parameters

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

Responses 200 — Success response to check deploy impact

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

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 /fabrics-intents/{id}/configuration

Retrieves the generated configured for this fabric intent.

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

Description

This API retrieves the generated configuration for this fabric intent represented by this id.

Parameters**Table 33. API parameters**

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

Responses

200 — Success response to retrieve the fabric intent configuration

```
{
  "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"
      }
    }
  ]
}

```

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

Requests approval for a specific fabric intent.

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

Description This API sends an approval request for a specific fabric intent approval. Fabric intent needs to be approved before it can be deployed. Once this request is received, the fabric intent will then be placed in pending-approval. Once the approval is received, then the fabric intent will change the state to approved. If the fabric intent is already in pending-approved state, this API is ignored.

Parameters

Table 34. API parameters

Filter name	Description
*id string (path)	Unique identifier of the fabric intent. For example: 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": []
  }
]
}
```

201 — 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 /fabrics-intents/{id}/cancel-approval

Requests a cancel for a fabric intent approval.

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

Description This API sends a cancel request for a fabric intent approval. If approval request for the fabric intent is sent, then the fabric intent will be in the pending-approval state. If user wants to edit the fabric intent, the approval must be cancelled to change the state of the fabric intent to the draft state. In draft state, user can update the fabric intent.

Parameters

Table 35. API parameters

Filter name	Description
*id string (<i>path</i>)	Unique identifier of the fabric intent. For example: 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": []
    }
  ]
}
```

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 /fabrics-intents/{id}/validate

Requests validation for a specific fabric intent to deploy.

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

Description This API validates if fabric-intent is valid and can be deployed. It will check if fabric-intent is approved and has a interlink object, etc.

Parameters

Table 36. API parameters

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

Responses

200 — Validate response for the fabric intent

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

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 /fabrics-intents/{id}/deploy

Requests deployment for a specific fabric intent to the topology.

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

Description This API starts deploying the configuration on the switches in the topology.

Parameters

Table 37. API parameters

Filter name	Description
*id string (<i>path</i>)	Unique identifier of the fabric intent. For example: 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"
      ]
    }
  ]
}

```

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 /fabrics-intents/{id}/deploy-status

Retrieves the current deploy status of the fabric-intent.

API GET /fabrics-intents/{id}/deploy-status

Description This API returns the progression on the current deployment of the fabric intent. If the fabric intent is already deployed, this API will return the last deployment progression.

Parameters

Table 38. API parameters

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

```

{
  "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-s5224-13",
      "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 : SFD_AGENT_OPERATION_FAILURE"
        },
        {
          "id": null,
          "message": "Failed to configure entity : BGP_NEIGHBOR : reason : SFD_AGENT_OPERATION_FAILURE"
        }
      ]
    }
  ]
}

```

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 /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 This API returns the fabric intent deployment status using the ID of the fabric intent.

Parameters

Table 39. API parameters

Filter name	Description
fabric-intent-id string <i>path</i>	Unique identifier of the fabric intent. For example: 41:51771177706553346
deployment-id	Unique identifier of the fabric intent deployment. For example: 151:51773025513308176

Responses 200 — Deploy status response for the fabric intent

```

{
  "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-s5224-13",
            "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 :
SFD_AGENT_OPERATION_FAILURE"
                },
                {
                    "id": null,
                    "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
SFD_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 :
SFD_AGENT_OPERATION_FAILURE"
                },
                {
                    "id": null,
                    "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
SFD_AGENT_OPERATION_FAILURE"
                },
                {
                    "id": null,
                    "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
SFD_AGENT_OPERATION_FAILURE"
                },
                {
                    "id": null,
                    "message": "Failed to configure entity : BGP_NEIGHBOR : reason :
SFD_AGENT_OPERATION_FAILURE"
                }
            ]
        }
    ]
}

```

```
]
}
```

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"
      ]
    }
  ]
}
```

Host-networks

Host network objects within a fabric intent.

Topics:

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

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 This API returns all host network objects within a fabric intent using the ID of the fabric intent.

Parameters

Table 40. API parameters

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

Responses 200 — Response to get all host networks

```
{
  "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"
    }
  ]
}
```

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"
      ]
    }
  ]
}

```

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	This API creates a host network object within a fabric intent. A host network provides network connectivity to vCenter managed workloads attached to fabric managed by SFD. To configure a host networking, you need the

VLAN ID of the network, two SVI IP addresses for leaf/spine switches which are in VLTLINK pair 3, and VRRP virtual IP which is the host network gateway IP.

Parameters

Table 41. API parameters

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

```
{
  "new_object_id": "46:51776822585327789",
  "id": "host_network_create_success",
  "message": "Host Network Created Successfully",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "host_network_create_success",
      "message": "Host Network Created Successfully",
      "field_name": null,
      "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 /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 This API returns an host network object identified by host-network-id within a fabric intent identified by fabric-intent-Id.

Parameters

Table 42. API parameters

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

Responses

200 — Response to get host network

```
{
  "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"
}
```

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 /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 This API updates a host network object identified by host-network-id within a fabric intent identified by fabric-intent-id.

Parameters

Table 43. API parameters

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

Table 43. API parameters (continued)

Filter name	Description
	<pre>"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": [
    "string"
  ],
  "messages": [
    {
      "id": "host_network_update_success",
      "message": "Host Network Updated Successfully",
      "field_name": null,
      "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"
      ]
    }
  ]
}

```

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 This API deletes a host network object identified by host-network-id within a fabric intent identified by fabric-intent-id. This operation can only be done if this host network is not deployed earlier, and the fabric intent is in DRAFT state.

Parameters

Table 44. API parameters

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

Response status codes 200 — Success or error response

```

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

```

```

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

```

```
]
}
]
}
```

Image-servers

Image server to upgrade or downgrade the image on the switch.

Topics:

- GET /image-servers
- POST /image-servers
- GET /image-servers/{id}
- PUT /image-servers/{id}
- DELETE /image-servers/{id}

GET /image-servers

Retrieves all image servers on a switch.

API	GET /image-servers
Description	This API retrieves all image servers in the system.
Parameters	None
Responses	200 — Response to get all image servers

```
{
  "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"
      ]
    }
  ]
}
]
}

```

POST /image-servers

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

API POST /image-servers

Description This API creates an image server to upgrade or downgrade the image on the switch. The operator 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 45. API parameters

Filter name	Description
body * required (body)	Provides the input body to create an image server. For example: <pre>{ "url": "string",</pre>

Table 45. API parameters

Filter name	Description
	<pre> "base_path": "string", "protocol": "TFTP", "credential": { "username": "string", "password": "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 /image-servers/{id}

Retrieves an image server using the image server ID.

API GET /image-servers/{id}

Description This API retrieves an image server using the image server ID.

Parameters

Table 46. API parameters

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

Response status codes 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 This API updates an image server using the image server ID.

Parameters

Table 47. API parameters

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

Response status codes 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 This API deletes an image server using the image server ID.

Parameters

Table 48. API parameters

Filter name	Description
*id required string (<i>path</i>)	Unique identifier of the image 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"
      ]
    }
  ]
}
```

Interlinks

Interlink objects within a fabric intent.

Topics:

- [GET /fabrics-intents/{fabric-intent-id}/interlinks](#)
- [POST /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}](#)

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

Retrieve all interlink objects within a fabric intent.

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

Description This API returns all interlink objects with in a fabric intent identified by fabric-intent-id.

Parameters

Table 49. API parameters

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

Responses

200 — Response to get all interlinks

```
{
  "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
            }
          ]
        }
      }
    }
  ]
}
```

```

    },
    "bfd": {
      "ufd": true,
      "rstp": true,
      "mtu": 1500
    },
    "L2_VLT": null,
    "id": "42:51776562747670697",
    "fabricIntentId": "41:51776562459279527"
  }
]
}

```

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

Creates an interlink object within a fabric intent.

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

Description This API creates an interlink object within a fabric intent. An interlink object defines how the spine-leaf should be interconnected in the fabric. It describes what routing protocol should be used, and also specifies other protocols to use with the leaf-spine connections.

Parameters

Table 50. API parameters

Filter name	Description
fabric-intent-id string (<i>path</i>)	Unique identifier of the fabric intent. For example: <pre>41:51776562459279527</pre>
body	For example: <pre>{ "name": "intent-new", "type": "L3_BGP", "L3_BGP": { "Bgp": { "type": "eBGP", "as_leaf_range": [{ "start": 64801, "end": 64928 }], "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 }, "bfd": true, "mtu": 1500, "rstp": true } }</pre>

Responses

201 — New entity created successfully

```
{
  "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"
      ]
    }
  ]
}
```

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 /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 This API returns an interlink object identified by interlink-id within a fabric intent identified by fabric-intent-id

Parameters

Table 51. API parameters

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

Responses 200 — Success response to retrieve the interlink

```
{
  "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
        }
      ]
    },
    "bfd": true,
    "rstp": true,
    "mtu": 0
  },
  "L2_VLT": {
    "bfd": 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
        }
      ]
    }
  }
}

```

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 /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 This API updates an interlink object identified by interlink-id within a fabric intent identified by fabric-intent-id.

Parameters

Table 52. API parameters

Filter name	Description
fabric-intent-id string <i>(path)</i>	Unique identifier of the fabric intent. For example: <pre>41:51776562459279527</pre>
interlink-id string <i>(path)</i>	Unique identifier of the fabric intent interlink. For example: <pre>42:51776562747670697</pre>
body	For example: <pre>{ "name": "intent-new", "type": "L3_BGP", "L3_BGP": { "bgp": { "type": "eBGP", "as_leaf_range": [{ "start": 64801, "end": 64928 }], "as_spine_range": [{ "start": 64601, "end": 64616 }] } }, "interlink_subnet": { "address": "192.180.0.1", "prefix_len": 16 }, "loopback_seed_address": {</pre>

Table 52. API parameters (continued)

Filter name	Description
	<pre> "address": "10.0.0.0", "prefix_len": 32 }, "bfd": true, "mtu": 1500, "rstp": true } } </pre>

Response status codes

200 — success or error response

```

{
  "new_object_id": null,
  "id": "fabric_intent_interlink_update_successful",
  "message": "Interlink updated successfully.",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "fabric_intent_interlink_update_successful",
      "message": "Interlink updated successfully.",
      "field_name": null,
      "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 /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 This API deletes an interlink object identified by interlink-id within a fabric intent identified by fabric-intent-id.

Parameters

Table 53. API parameters

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

Responses 200 — success or error response

```

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

```

```

    "message": "Interlink with deleted successfully.",
    "field_name": "null",
    "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"
      ]
    }
  ]
}

```

```
]
}
```

Life cycle management

Update SFD jobs.

Topics:

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

GET /lcm/update-jobs

Retrieves information for all switch image update jobs.

API	GET /lcm/update-jobs
Description	This API returns all switch image update jobs present in the system.
Parameters	None
Responses	200 — Response to get all switch image update jobs

```
{
  "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"
      ]
    }
  ]
}
```

POST /lcm/update-jobs

Creates a job to update the switch image.

API POST /lcm/update-jobs

Description This API creates 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 54. 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-jobs/{id}

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

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

Description This API retrieves information for a switch image update job using the request ID.

Parameters

Table 55. API parameters

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

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-jobs/{id}

Update a switch image update job using the requested ID.

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

Description This API updates a switch image update job using the requested ID.

Parameters

Table 56. API parameters

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

Deletes a switch image update job.

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

Description This API deletes a switch image update job.

Parameters

Table 57. API parameters

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

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-jobs/{id}/approval-request

Request approval for a switch image update job.

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

Description This API requests approval for a switch image update job represented by the requested id. The job has to be in approved state to deploy.

Parameters

Table 58. API parameters

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

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-jobs/{id}/cancel

Request to cancel a switch image update job.

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

Description This API requests to cancel a job that is scheduled to deploy. The cancelled job returns back to approved state.

Parameters

Table 59. API parameters

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

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-jobs/{id}/deploy

Request to deploy a switch image update job.

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

Description

This API requests a switch image update job represented by the requested id. The operator must specify if the job needs to be scheduled or deployed now. If the job is scheduled, it will be deployed at that time. To deploy the job, it needs to be in approved state.

Parameters

Table 60. API parameters

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

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-jobs/{id}/status

Gets the status of a switch image update job.

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

Description This API requests the status of a switch image update job represented by the requested id.

Parameters

Table 61. API parameters

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

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"  
]  
}  
]  
}
```

Activities

SFD activities.

Topics:

- [GET /activities](#)

GET /activities

Retrieves SFD activities.

API `GET /activities`

Description This API returns SFD activities. SFD activities is a summary of operations. This could be operator driven or any dynamic activity happening in SFD.

Parameters

Table 62. API parameters

Filter name	Description
start-time int64 (query)	Get all SFD activities created after start timestamp (inclusive). The default value for start timestamp is set as end-time - 24 hours. The timestamp value is defined in milliseconds since epoch. For example: <pre>1580018307706</pre>
end-time int64 (query)	Get all SFD activities created before end timestamp (inclusive). The default value for end timestamp is set as the current time. The timestamp value is defined in milliseconds since epoch. For example: <pre>1580104707706</pre>
activity-type enum (query)	Type of activity
activity-sub-type enum (query)	Sub-type of activity
status enum (query)	Status of activity
message string (query)	Wildcard query on the message field. Supported wildcards are * and ?. For example: <pre>Ny*</pre>

Responses

200 — Activities response for SFD

```
{
  "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": "sfd",
      "message": "Switch: 'sc2-t2-z9100-s2' restarted. Provisioning the
switch."
    }
  ]
}
```

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"  
      ]  
    }  
  ]  
}
```

Notifications

Notification service APIs.

Topics:

- [GET /notifications](#)
- [GET /notifications/smtp](#)
- [PUT /notifications/smtp](#)
- [DELETE /notifications/smtp](#)
- [POST /notifications/smtp/test](#)

GET /notifications

Retrieves all the currently applied notification configurations.

API	GET /notifications
Description	This API returns all the currently applied notification configurations.
Parameters	None
Responses	200 — Response to get an all configurations request

```
{
  "smtp":
  {
    "smtp_host": "string",
    "port*": "integer",
    "from_email_id*": "string",
    "username": "string",
    "password": "string",
    "auth_required*": "boolean",
    "ssl_required*": "boolean"
  }
}
```

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 /notifications/smtp

Retrieves the applied SMTP configuration.

API	GET /notifications/smtp
Description	This API returns the currently applied SMTP configuration.
Parameters	None
Responses	200 — Response to get SMTP configuration request

```
{
  "smtp": {
    "smtp_host": "string",
    "port*": "integer",
    "from_email_id*": "string",
    "username": "string",
    "password": "string",
    "auth_required*": "boolean",
    "ssl_required*": "boolean"
  }
}
```

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"
      ]
    }
  ]
}
```

```
{
  "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 /notifications/smtp

Applies the specified SMTP configuration.

API PUT /notifications/smtp

Description This API applies the SMTP configuration provided in configuration, if valid. This will be used for sending notification emails.

Parameters

Table 63. 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

200 — Response to a notification request

```
{
  "status": "enum",
  "error_message": "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"
      ]
    }
  ]
}
```

DELETE /notifications/smtp

Deletes the applied SMTP configuration.

API	DELETE /notifications/smtp
Description	This API deletes the currently applied SMTP configuration.
Parameters	None
Responses	200 — Response to a notification request

```
{
  "status": "enum",
  "error_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"
    ]
  }
]
}

```

POST /notifications/smtp/test

Sends a test email.

API POST /notifications/smtp/test

Description This API sends a test email based on input data.

Parameters

Table 64. API parameters

Filter name	Description
body	For example: <pre> { "recipients*": "string", "smtp_host*": "string", "port*": "integer", "from_email_id*": "string", "username": "string", "password": "string", "auth_required*": "boolean", "ssl_required*": "boolean" } </pre>

Responses 200 — Response to a notification request

```

{
  "status": "enum",
  "error_message": "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"
      ]
    }
  ]
}
```

Switch

Switch inventory information.

Topics:

- 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

GET /switch/{switch-id}

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

API GET /switch/{switch-id}

Description This API retrieves a telemetry summary.

Parameters

Table 65. API parameters

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

Responses 200 - Telemetry summary for a switch

```
{
  "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"
    }
  ]
}
]
}

```

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 /switch/{switch-id}/interface

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

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

Description This API retrieves a telemetry summary.

Parameters

Table 66. 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 the interface records to retrieve.

Responses 200 — Telemetry summary for a switch

```
{
  "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 — 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 /interface/{interface id}

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

API GET /interface/{interface id}

Description This API retrieves a telemetry summary.

Parameters

Table 67. API parameters

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

Responses 200 — Telemetry summary for a switch

```
{
  "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 — 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 /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 This API retrieves a telemetry summary.

Parameters

Table 68. API parameters

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

```

{
  "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"
        }
      ]
    }
  ]
}

```

```

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

```

```

{
  "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/{switch-id}/lag

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

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

Description This API retrieves a telemetry summary.

Parameters

Table 69. 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 — Telemetry summary for a switch

```

{
  "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"
    }
  ]
}

```

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 /switches/summary

Retrieves summary information of all switches.

API	GET /switches/summary
Description	This API retrieves summary information of all switches.
Parameters	None
Responses	200 — List of switch summary

```

{
  "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"
    }
  ]
}

```

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"
      ]
    }
  ]
}
```

Switch-groups

Switch group configuration information.

Topics:

- [GET /switch-groups](#)
- [POST /switch-groups](#)
- [GET /switch-groups/{id}](#)
- [PUT /switch-groups/{id}](#)
- [DELETE /switch-groups/{id}](#)

GET /switch-groups

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

API	GET /switch-groups
Description	This API returns 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"
      ]
    }
  ]
}
```

POST /switch-groups

Creates a switch group.

API POST /switch-groups

Description This API creates a new switch group.

Parameters

Table 70. API parameters

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

Table 70. API parameters

Filter name	Description
	<pre>"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/{id}

Retrieves a switch group using the switch group ID.

API GET /switch-groups/{id}

Description This API retrieves a switch group represented by the requested id.

Parameters

Table 71. API parameters

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

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"
      ]
    }
  ]
}
```

```
{
  "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 This API updates a switch group represented by the requested id.

Parameters

Table 72. API parameters

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

Table 72. API parameters (continued)

Filter name	Description
	<pre>"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 This API deletes a switch group represented by the requested id.

Parameters

Table 73. API parameters

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

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"
      ]
    }
  ]
}
```

Syslogs

Syslog messages received by SFD from switches.

Topics:

- [GET /syslogs/messages](#)
- [GET /syslogs/messages/latest](#)

GET /syslogs/messages

Retrieves syslog messages between the start and end timestamp.

API `GET /syslogs/messages`

Description This API retrieves syslog messages between the start and end timestamp.

Parameters

Table 74. API parameters

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

```

{
  "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 /syslogs/messages/latest

Retrieves syslog messages between the start and end timestamp.

API GET /syslogs/messages/latest

Description This API retrieves the latest N syslog messages for a switch identified by OID.

Parameters

Table 75. API parameters

Filter name	Description
oid string (query)	If present, the Object ID acts as a filter.
max-messages integer (query)	Maximum number of messages to retrieve. The default is 100.
filter string (query)	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

```
{
  "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"
      ]
    }
  ]
}
```

System APIs.

Topics:

- [GET /system/health](#)
- [POST /system/ping](#)
- [POST /system/license-file](#)

GET /system/health

Retrieves overall SFD health information.

API	GET /system/health
Description	This API retrieves overall system health information.
Parameters	None
Responses	200 — Response for getting system health

```
{
  "status": "enum"
}
```

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/ping

Pings the REST service.

API	POST /system/ping
Description	This API pings the REST service. Use case for this can be client application dependent.
Parameters	None
Responses	200 — Response to system ping request

```
{
  "ping": "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/license-file

Uploads the SFD licence file.

API POST /system/license-file

Description This API retrieves the SFD license file obtained from the Dell Digital Locker, downloads into the local machine, then uploads the file to SFD.

Parameters

Table 76. API parameters

Filter name	Description
LicenseFile string (request)	The SFD license file to be uploaded.

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 - uploaded file is not valid

```
{
  "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"
      ]
    }
  ]
}
```

System-settings

SFD system settings.

Topics:

- [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 /system-settings

Returns a list of SFD system settings.

API	GET /system-settings
Description	This API 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 This API 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 This API configures the NTP server in SFD.

Parameters

Table 78. API parameters

Filter name	Description
body * required (<i>body</i>)	Configure the NTP 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/ntp/{ntp_server}

Deletes the NTP server from SFD.

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

Description This API deletes the NTP server from SFD.

Parameters

Table 79. API parameters

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

Table 79. API parameters

Filter name	Description
(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 /system-settings/dns

Configures the DNS server in SFD.

API POST /system-settings/dns

Description This API 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 This API deletes the DNS server from SFD.

Parameters

Table 81. API parameters

Filter name	Description
dns_server * required string (<i>path</i>)	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 — 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"
      ]
    }
  ]
}

```

```
]
}
```

Telemetry

Time series-based metrics and state information.

Topics:

- [POST /telemetry/metrics](#)
- [GET /telemetry/switch/rank/metric/{metric-name}](#)
- [POST /telemetry/state](#)
- [GET /telemetry/catalog](#)
- [POST /telemetry/connection/{switch-id}](#)

POST /telemetry/metrics

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

API `POST /telemetry/metrics`

Description This API retrieves metric values corresponding to the specified OID and metric key.

Parameters

Table 82. 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": "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 /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 This API 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 83. API parameters

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

Responses 200 — Response for get switches ranked by metric

```

{
  "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 — 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"
      ]
    }
  ]
}

```

POST /telemetry/state

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

API POST /telemetry/state

Description This API retrieves the get time series state values.

Parameters

Table 84. API parameters

Filter name	Description
body	For example: <pre> { "oid": "35:51778771773587498", "state_name": "oper_state", </pre>

Table 84. API parameters

Filter name	Description
	<pre> "interval": 60, "time_range": { "end_time_unix": 1580189177, "start_time_unix": 1580185577 } </pre>

Responses

200 — Response for getting state values

```

{
  "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 — 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 /telemetry/catalog

Description	Retrieves supported observed variables.
Parameters	None
Responses	200 — Response for observed variable catalog

```
{
  "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"
    ]
}
]
}

```

400 — Invalid request

```

{
  "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/connection/{switch-id}

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

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

Description This API provides operations for changing connection status with a switch.

Parameters

Table 85. API parameters

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

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 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"
      ]
    }
  ]
}
```

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"
      ]
    }
  ]
}
```

Physical topology of the fabric.

Topics:

- [GET /topology/status](#)
- [POST /topology/upload](#)
- [GET /topology](#)

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

```
{
  "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 /topology/upload

Retrieves the overall status of the fabric.

API	GET /topology/status
Description	This API is the design file to upload. SFD learns the design and then provides the next steps to perform.
Parameters	None
Responses	201 — Response to the topology upload

```
{
  "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"
    }
  }
}
```

400 — Invalid request - uploaded file not valid

```
{
  "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 /topology

Returns the physical topology of the fabric.

API	POST /topology/upload
Description	This API describes the topology of the fabric, and reports if the switches are discovered or not.
Parameters	None
Responses	400 — Invalid request - uploaded file not valid

```

{
  "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,
        "reachable": 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

```

{
  "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"
        ]
      }
    ]
  }
}
```

VM-managers

vCenter and NSX access APIs.

Topics:

- [GET /vm-managers](#)
- [POST /vm-managers](#)
- [GET /vm-managers/{id}](#)
- [PUT /vm-managers/{id}](#)
- [DELETE /vm-managers/{id}](#)

GET /vm-managers

Returns all the vCenters and NSX that the SFD manages.

API	GET /vm-managers
Description	This API returns all VM managers monitored by SFD.
Parameters	None
Responses	200 — Get all the vCenters and NSX managed by SFD

```
{
  "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 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 /vm-managers

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

API POST /vm-managers

Description This API adds vCenter to NSX. SFD will contact the vCenter or NSX and configure the switches for the host network.

Parameters

Table 86. 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 entity created successfully

```
{
  "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 — 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 /vm-managers/{id}

Returns a specific VM manager using the VM manager ID.

API GET /vm-managers/{id}

Description This API returns configured VM manager by given ID.

Parameters

Table 87. API parameters

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

Responses 200 — vCenter and NSX managed by SFD

```
{
  "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"
      ]
    }
  ]
}
```

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 /vm-managers/{id}

Updates a specific VM manager using the VM manager ID.

- API** PUT /vm-managers/{id}
- Description** This API updates the VM manager by ID.
- Parameters**

Table 88. API parameters

Filter name	Description
*id string (<i>path</i>)	Unique identifier of the vCenter/NSX to update.
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"
      ]
    }
  ]
}
```

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 /vm-managers/{id}

Deletes a VM manager using the VM manager ID.

API DELETE /vm-managers/{id}

Description This API deletes a vCenter/NSX by ID.

Parameters

Table 89. API parameters

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

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"
    ]
  }
]
```

Wiring-diagrams

Wiring diagram builder for the fabric.

Topics:

- [POST /wiring-diagrams](#)
- [DELETE /wiring-diagrams/{id}](#)
- [GET /wiring-diagrams/{id}/topology](#)
- [GET /wiring-diagrams/summary](#)
- [GET /wiring-diagrams/{id}/compatible-intents](#)
- [GET /wiring-diagrams/supported-models](#)

POST /wiring-diagrams

Uploads the fabric design file in JSON format.

API `POST /wiring-diagrams`

Description This API uploads the fabric design file in JSON format. The wiring diagram is collection of leaf and spine switches and the connections between them. Multiple wiring diagrams can be uploaded.

Parameters

Table 90. API parameters

Filter name	Description
designFile	The design file to upload.

Responses

200 — Response to the wiring upload

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

400 — Invalid request - uploaded file is not valid

```
{
  "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 /wiring-diagrams/{id}

Deletes a wiring diagram.

API DELETE /wiring-diagrams/{id}

Description This API deletes a wiring diagram. Only inactive wiring diagrams can be deleted.

Parameters

Table 91. API parameters

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

Responses 200 — Response to the wiring upload

```
{
  "new_object_id": "210:51778176823451697",
  "id": "wiring_diagram_delete_success",
  "message": "Wiring diagram deleted successfully.",
  "messageParams": [
    "string"
  ],
  "messages": [
    {
      "id": "wiring_diagram_delete_success",
      "message": "Wiring diagram deleted successfully.",
      "field_name": "null",
      "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 /wiring-diagrams/{id}/topology

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

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

Description This API returns the physical topology that is created from this wiring diagram.

Parameters

Table 92. API parameters

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

Responses 200 — Response to the fabric topology request

```

{
  "id": "11:51771176548663297",
  "name": "Setup02-SFD-2-Spine-4-Leaf-Fabric",
  "fabric_type": "L3_BGP",
  "switches": [
    {
      "id": "2:51771176555151441",
      "name": "sc2-t2-s5224-l3",
      "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

```

{
  "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 /wiring-diagrams/summary

Lists all imported wiring diagram summaries.

API	GET /wiring-diagrams/summary
Description	This API lists all imported wiring diagrams.
Parameters	None
Responses	200 — Response to wiring diagram summary

```
{
  "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-SFD-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
      }
    }
  ]
}
```

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

Returns all compatible intents for this wiring diagram.

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

Description This API returns all compatible intents for this wiring diagram.

Parameters

Table 93. API parameters

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

Responses 200 — Response to compatible intents

```

{
  "data": [
    {
      "fabric_intent_id": "41:51771177706553346",
      "name": "sfd",
      "fabric_type": "L3_BGP",
      "status": "ACTIVE"
    },
    {
      "fabric_intent_id": "41:51771215306326025",
      "name": "sfd-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": "sfd-1579932107739-1580092357060",
    "fabric_type": "L3_BGP",
    "status": "APPROVED"
  }
]
}

```

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 /wiring-diagrams/supported-models

Returns switch supported models.

API	GET /wiring-diagrams/supported-models
Description	This API returns all switch models by SFD.
Parameters	None

Responses

200 — Supported switch models

```
{
  "switch_models": [
    {
      "model": "string",
      "image_files": "string",
    },
    {
      "image_files": "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"
      ]
    }
  ]
}
```

Dell EMC support

The Dell EMC support site provides documents and tools to help you effectively use Dell EMC equipment and mitigate network outages. Through the support site you can obtain technical information, access software upgrades and patches, download available management software, and manage your open cases. The Dell EMC support site provides integrated, secure access to these services.

To access the Dell EMC support site, go to www.dell.com/support/. To display information in your language, scroll down to the bottom of the web page and select your country from the drop-down menu.

- To obtain product-specific information, enter the 7-character Service Tag or 11-digit express service code of your switch, which is found on the pull-out tag, also known as a luggage tag, and click **Submit**.
- To receive more technical support, click **Contact Us**. On the Contact Information web page, click **Technical Support**.

To access product documentation and resources that might be helpful to install, configure, and troubleshoot the specific Dell EMC Networking switch, see the [Dell EMC Networking OS10 Info Hub](#).

To search for drivers and downloads, go to www.dell.com/drivers/.

To participate in Dell EMC community blogs and forums, go to www.dell.com/community.

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