API Reference

SFD REST APIs

API Version: 2.0

SmartFabric Director REST API doc.

INDEX

SECURITY SCHEMES

KEY	TYPE	DESCRIPTION
nfc_api_key	apiKey	Each API needs token in 'Authorization' header. The token can be retrieved by using API- POST /auth/token. The token retrieved from this request should be sent in 'Authorization' header as 'NFC {token}' Example : curl -X GET https://SFD-IP/api/fabric-intents \ -H 'Accept: application/json' \ -H 'Authorization: NFC eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9' \ -H 'Cache-Control: no-cache' \ -H 'Content-Type: application/json' \ -d '{ "name": "fabric-intent-1", "description": "L3 BGP fabric" }'

API

1. ABOUT

About SFD.

1.1 GET /about

Get information about SFD.

This API should be invoked to get SFD version and service-tag.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get SFD version and service-tag information.

RESPONSE MODEL - application/json

```
{
    version                  string   version of SFD.
    service_tag              string   unique service tag provided with SFD purchase.
    manifest_file_version    string   The manifest file version.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized
                                 string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params
                                 in the Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the
                                      localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the
                                      params in the Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized
                                 string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params
                                 in the Message in the localized file.

    messages [{
    Array of object:
```

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

2. ALERTS

Alerts generated in the NFC

2.1 GET /alerts

Returns all active alerts.

This API returns all the active alerts generated within NFC. 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' will raise HIGH_CPU_USAGE_ALERT and CPU usage below a threshold 'X' will clear HIGH_CPU_USAGE_ALERT.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
type	string	Get all the active alerts based on alert type generated within NFC. An example of Alert type is INTERFACE_LINK_DOWN_ALERT.
severity	array of string ALLOWED: INFO, WARNING, ERROR, CRITICAL, CLEARED	Get all the active alerts based on alert severity generated within NFC. The Alert Severity can be - WARNING, ERROR or CRITICAL.
referenced-object-id	string	Get all the active alerts generated on the referenced object id. The referenced object id is the unique identifier of the NFC managed object.
start-time	int64	Get all the active alerts modified 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.
end-time	int64	Get all the active alerts modified before end timestamp(inclusive). The default value for end timestamp is set as current time. The timestamp value is defined in milliseconds since epoch.
state	array of string ALLOWED: OPEN, ACK, CLEARED	Get all the active alerts based on alert state generated within NFC. The Alert states can be - OPEN, ACK or CLEARED.
information	string	Get all the active alerts containing the specified string in the alert information.
sort-by	enum ALLOWED: CREATED_AT, UPDATED_AT	Field by which result needs to be sorted
sort-order	enum ALLOWED: ASC, DESC	Sort order

RESPONSE

STATUS CODE - 200: Response to get all the active alerts

RESPONSE MODEL - application/json

```
{
Get all the active nfc alerts
    data [{
    Array of object: Nfc alert object
        id              string    Unique identifier of the nfc alert object
        type            string    Type of alert generated. Ex: INTERFACE_LINK_DOWN_ALERT
        severity        enum      ALLOWED:INFO, WARNING, ERROR, CRITICAL, CLEARED
```

		Severity level of the events/alerts
created_timestamp	integer	The time in seconds since epoch at which the alert was generated.
modified_timestamp	integer	The time in seconds since epoch at which the alert was modified.
cleared_timestamp	integer	The time in seconds since epoch at which the alert was cleared/resolved.
message	string	Detailed message describing the alert type raised on a NFC managed object id

referenced_object_id {

This object defines the NFC object type and the unique identifier for that object type

id	string	Unique identifier of the referenced object
type	string	Type of referenced object. Ex - Interface, Switch, etc

}

state	enum	**ALLOWED:**OPEN, ACK, CLEARED
		State of an alert. It can be in OPEN, ACK or CLEARED state. OPEN state means an alert is newly created or is un-acked by NFC operator. ACK state means NFC operator has acknowledged an alert. CLEARED state means that alert has been resolved and is no longer active.
state_updated_by	string	User id of NFC operator or SFD system who has most recently updated the alert state.

}]

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

2.2 POST /alerts/{id}/ack

Update the state of an alert to ACK state.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	The alert Id to be acknowledged.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
```

```
messages [{
Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

2.3 POST /alerts/{id}/unack

Update the state of an alert to OPEN state.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	The alert Id to be un-acknowledged.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
```

```
      messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

2.4 POST /alerts/{id}/clear

Clears an alert.

This API clears the given alert.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	The alert Id to be cleared.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
```

```
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
      message             string      Success or error message
      field_name          string      Field name where the error was seen
      messageParams       [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
      message             string      Success or error message
      field_name          string      Field name where the error was seen
      messageParams       [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
  }
```

2.5 GET /alerts/{id}/events

Get list of events for an alert.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	The id of an alert.

RESPONSE

STATUS CODE - 200: Response to get all the NFC events

RESPONSE MODEL - application/json

```
{
Get all the nfc events

  data [{
  Array of object:  Nfc event object

    id          string      Unique identifier of the nfc event object
    type        string      Type of event generated. Ex: INTERFACE_LINK_DOWN_EVENT
    severity    enum        ALLOWED:INFO, WARNING, ERROR, CRITICAL, CLEARED
```

```
                                  Severity level of the events/alerts
    timestamp  integer   The time in seconds since epoch at which the event was generated.
    message    string    Detailed message describing the generated event.
    referenced_object_id {
    This object defines the NFC object type and the unique identifier for that object type

        id    string   Unique identifier of the referenced object
        type  string   Type of referenced object. Ex - Interface, Switch, etc
    }
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        field_name     string       Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        field_name     string       Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:
```

```
        id              string         This represents the key for the localized property file to be used by UI to show the localized string.
        message         string         Success or error message
        field_name      string         Field name where the error was seen
        messageParams   [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
  }
```

2.6 GET /alerts/{id}/timeline

Returns the alert timeline by alert Id

This API returns the alert timeline history. Each record in the timeline will describe the status of an alert at a given timestamp

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	The id of an alert.

RESPONSE

STATUS CODE - 200: Response to get the timeline of an alert

RESPONSE MODEL - application/json

```
{
Maintains the record of alerts timeline.
    data [{
    Array of object:  Defines the status of an alert when an alert is modified/updated. If an alert is updated, a new record is added to the alert
    history timeline.
        timestamp       integer     The time in seconds since epoch at which alert was modified.
        updated_by      string      The user id of NFC operator or SFD system who is responsible for modifying the alert object.
        state           enum        ALLOWED:OPEN, ACK, CLEARED
                                    State of an alert. It can be in OPEN, ACK or CLEARED state. OPEN state means an alert is newly created
                                    or is un-acked by NFC operator. ACK state means NFC operator has acknowledged an alert. CLEARED
                                    state means that alert has been resolved and is no longer active.
        message         string      Message describing update of the alert
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string         This represents the id of the new object created for the POST API call.
    id              string         This represents the key for the localized property file to be used by UI to show the localized string.
    message         string         Success or error message
    messageParams   [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    messages [{
    Array of object:
        id              string         This represents the key for the localized property file to be used by UI to show the localized string.
        message         string         Success or error message
        field_name      string         Field name where the error was seen
        messageParams   [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
```

}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   messages [{
   Array of object:

      id                string        This represents the key for the localized property file to be used by UI to show the localized string.
      message           string        Success or error message
      field_name        string        Field name where the error was seen
      messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   messages [{
   Array of object:

      id                string        This represents the key for the localized property file to be used by UI to show the localized string.
      message           string        Success or error message
      field_name        string        Field name where the error was seen
      messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
   }]
}
```

3. AUTHENTICATION

Get access to the APIs

3.1 POST /auth/token

Retrieve new token

This API should be invoked first to get the API token. The returned token to be used for all the other APIs. The token return has validity of 30 min. This api will also return refresh token which is used to get the new token before the token is expired. To extend the token use /auth/token/extend api.

REQUEST

REQUEST BODY - application/json

```
{
   username*   string  min:1 chars
   password*   string  min:1 chars
   authDomain  enum      DEFAULT:LOCAL_AUTH
                         ALLOWED:LOCAL_AUTH, LDAP_AUTH
}
```

RESPONSE

STATUS CODE - 200: Response to the login or extend request

RESPONSE MODEL - application/json

```
{
   token         string
   refreshToken  string
}
```

STATUS CODE - 400: Invalid login request

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - 401: Bad crendentials

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
                                 Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
    messageParams    [string]     Message in the localized file.
    messages [{
    Array of object:
        id                 string       This represents the key for the localized property file to be used by UI to show the localized string.
        message            string       Success or error message
        field_name         string       Field name where the error was seen
        messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:
        id                 string       This represents the key for the localized property file to be used by UI to show the localized string.
        message            string       Success or error message
        field_name         string       Field name where the error was seen
        messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

3.2 POST /auth/token/extend

Extend the expiry of the token

A new token is returned to the user with new expiry time.

REQUEST

REQUEST BODY - application/json
```
{
    refreshToken*   string   This is the refresh token string which is returned on login response.
}
```

RESPONSE

STATUS CODE - **200:** Response to the login or extend request

RESPONSE MODEL - application/json

```
{
    token          string
    refreshToken   string
}
```

STATUS CODE - **400:** Invalid refresh request

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
                                  Success or error message
```

```
message            string
messageParams      [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
messages [{
Array of object:

   id                string     This represents the key for the localized property file to be used by UI to show the localized string.
   message           string     Success or error message
   field_name        string     Field name where the error was seen
   messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
new_object_id    string     This represents the id of the new object created for the POST API call.
id               string     This represents the key for the localized property file to be used by UI to show the localized string.
message          string     Success or error message
messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

messages [{
Array of object:

   id                string     This represents the key for the localized property file to be used by UI to show the localized string.
   message           string     Success or error message
   field_name        string     Field name where the error was seen
   messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
}]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
new_object_id    string     This represents the id of the new object created for the POST API call.
id               string     This represents the key for the localized property file to be used by UI to show the localized string.
message          string     Success or error message
messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

messages [{
Array of object:

   id                string     This represents the key for the localized property file to be used by UI to show the localized string.
   message           string     Success or error message
   field_name        string     Field name where the error was seen
   messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
}]
}
```

3.3 GET /auth/users

Get all users info.

This API should be invoked to get users records

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get all users details configured with NFC

RESPONSE MODEL - application/json

```
{
  data [{
  Array of object:
      first_name      string
      last_name       string
      user_id         string
      overall_state   enum      DEFAULT:ACTIVE
                                ALLOWED:ACTIVE, INACTIVE
                                Tells if the user overall user status is ACTIVE or INACTIVE.
      cli_state       enum      DEFAULT:ACTIVE
                                ALLOWED:ACTIVE, ENABLE_IN_PROGRESS, DISABLE_IN_PROGRESS,
                                INACTIVE, SSH_CREATION_FAILED
                                Tells if the user CLI access is ACTIVE or INACTIVE or change is IN_PROGRESS.
                                SSH_CREATION_FAILED happens when SSH access creation fails, during which deletion and
                                recreation of user is recommended.
      user_role       enum      DEFAULT:ADMIN
                                ALLOWED:ADMIN
      ad_user         boolean   Tells if it is AD user.
      contact_number  string
      updated_by      string
      last_updated    integer
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   }]
 }
```

3.4 POST /auth/users

Create new local user.

This API should be invoked to create a local user, and used to SFD-domain only.

REQUEST

REQUEST BODY - application/json

```
{
   first_name*        string    1 to 64 chars
   last_name*         string    1 to 64 chars
   user_id*           string    1 to 32 chars
   password*          string    8 to 20 chars
                                At least 8 characters <br> At least one lowercase character <br> At least one numeric character <br>
                                At least one special character <br> The password for this user cannot be more than 20 characters
                                long.
   confirm_password*  string    8 to 20 chars
                                Should be the same as new password provided.
   user_state         boolean   DEFAULT:true
                                Tells if the user is enabled/disabled. If disabled means user can not login.
   cli_access         boolean   Tells if the user has CLI capabilities.
   user_role          enum      DEFAULT:ADMIN
                                ALLOWED:ADMIN
   contact_number     string    max:24 chars
}
```

RESPONSE

STATUS CODE - 202: New entity created successfully.

RESPONSE MODEL - application/json

```
{
   new_object_id   string     This represents the id of the new object created for the POST API call.
   id              string     This represents the key for the localized property file to be used by UI to show the localized string.
   message         string     Success or error message
   messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   }]
 }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string     This represents the id of the new object created for the POST API call.
```

```
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

3.5 GET /auth/users/{userId}

Get user information.

This API should be invoked to get user information record.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter as input to get user info.

RESPONSE

STATUS CODE - 200: Response to the login or extend request

RESPONSE MODEL - application/json

```
{
    first_name       string
    last_name        string
    user_id          string
    overall_state    enum          DEFAULT:ACTIVE
                                   ALLOWED:ACTIVE, INACTIVE
                                   Tells if the user overall user status is ACTIVE or INACTIVE.
```

```
    cli_state        enum       DEFAULT:ACTIVE
                                ALLOWED:ACTIVE, ENABLE_IN_PROGRESS, DISABLE_IN_PROGRESS,
                                INACTIVE, SSH_CREATION_FAILED
                                Tells if the user CLI access is ACTIVE or INACTIVE or change is IN_PROGRESS.
                                SSH_CREATION_FAILED happens when SSH access creation fails, during which deletion and recreation
                                of user is recommended.
    user_role        enum       DEFAULT:ADMIN
                                ALLOWED:ADMIN
    ad_user          boolean    Tells if it is AD user.
    contact_number   string
    updated_by       string
    last_updated     integer
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

       id                string        This represents the key for the localized property file to be used by UI to show the localized string.
       message           string        Success or error message
       field_name        string        Field name where the error was seen
       messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

       id                string        This represents the key for the localized property file to be used by UI to show the localized string.
       message           string        Success or error message
       field_name        string        Field name where the error was seen
       messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
```

```
messages [{
Array of object:

    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

3.6 PUT /auth/users/{userId}

Update user info.

This API should be invoked to update user data. Users can change their own data. Users with admin role can update other users data too.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter as input to update user info.

REQUEST BODY - application/json

```
{
  first_name      string
  last_name       string
  contact_number  string
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

  messages [{
  Array of object:

    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
```

```
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id                string    This represents the key for the localized property file to be used by UI to show the localized string.
      message           string    Success or error message
      field_name        string    Field name where the error was seen
      messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string    This represents the id of the new object created for the POST API call.
   id               string    This represents the key for the localized property file to be used by UI to show the localized string.
   message          string    Success or error message
   messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id                string    This represents the key for the localized property file to be used by UI to show the localized string.
      message           string    Success or error message
      field_name        string    Field name where the error was seen
      messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string    This represents the id of the new object created for the POST API call.
   id               string    This represents the key for the localized property file to be used by UI to show the localized string.
   message          string    Success or error message
   messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id                string    This represents the key for the localized property file to be used by UI to show the localized string.
      message           string    Success or error message
      field_name        string    Field name where the error was seen
      messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

3.7 DELETE /auth/users/{userId}

Delete user.

This API should be invoked to delete user. Users can delete their own user record. Users with admin role can delete other users too, but ADMIN user can not get deleted.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter as input to delete user.

RESPONSE

STATUS CODE - 202: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
          }]                                    Message in the localized file.
    }
```

STATUS CODE - default: success or error response

    RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

       id               string      This represents the key for the localized property file to be used by UI to show the localized string.
       message          string      Success or error message
       field_name       string      Field name where the error was seen
       messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

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

Change password of the user by admin

This API should be invoked to change the user password with admin privileges.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter to change password of user.

REQUEST BODY - application/json

```
{
    new_password*            string  8 to 20 chars
                                     At least 8 characters <br> At least one lowercase character <br> At least one numeric character
                                     <br> At least one special character <br> The password for this user cannot be more than 20
                                     characters long.
    confirm_new_password*    string  8 to 20 chars
                                     Should be the same as new password provided.
}
```

RESPONSE

STATUS CODE - 202: success or error response

    RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:
```

```
        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
```

```
        messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

3.9 PUT /auth/users/self/password

Change existing password by user.

This API should be invoked to change their existing password by user.

REQUEST

REQUEST BODY - application/json
```
{
    old_password*          string  8 to 20 chars
                                   old password.
    new_password*          string  8 to 20 chars
                                   At least 8 characters <br> At least one lowercase character <br> At least one numeric character
                                   <br> At least one special character <br> The password for this user cannot be more than 20
                                   characters long.
    confirm_new_password*  string  8 to 20 chars
                                   Should be the same as new password provided.
}
```

RESPONSE

STATUS CODE - 202: success or error response

RESPONSE MODEL - application/json
```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:
        id              string   This represents the key for the localized property file to be used by UI to show the localized string.
        message         string   Success or error message
        field_name      string   Field name where the error was seen
        messageParams   [string] Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json
```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:
        id              string   This represents the key for the localized property file to be used by UI to show the localized string.
        message         string   Success or error message
        field_name      string   Field name where the error was seen
                                 Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
        messageParams  [string]   Message in the localized file.
      }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
      }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
      }]
  }
```

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

Change cli-access permission of user.

This API should be invoked to change user cli access. This operation needs admin role to perform.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter to change cli access capability.

REQUEST BODY - application/json

```
{
    cli_access  boolean   Tells if the user has CLI capabilities.
}
```

RESPONSE

STATUS CODE - 202: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

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

Change the role of user.

This API should be invoked to change user role. This operation needs admin role to perform.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter to change user role.

REQUEST BODY - application/json

```
{
    user_role    enum    DEFAULT:ADMIN
                         ALLOWED:ADMIN
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

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

Change state of user.

This API should be invoked to change user state. This operation needs admin role to perform.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*userId	string	userId parameter to change user state.

REQUEST BODY - application/json

```
{
    user_state  boolean   DEFAULT:true
                          Tells if the user is enabled/disabled. If disabled means user can not login.
}
```

RESPONSE

STATUS CODE - 202: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
message          string       Success or error message
messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

messages [{
Array of object:

   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   field_name      string       Field name where the error was seen
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

}]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string       This represents the key for the localized property file to be used by UI to show the localized string.
      message         string       Success or error message
      field_name      string       Field name where the error was seen
      messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   }]
}
```

3.13 GET /auth/domains

Returns the auth domains configured.

This API should be invoked to get auth domains configured.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get all the auth domains configured with NFC

RESPONSE MODEL - application/json

```
{
   auth_domains   [string]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
```

Array of object:
```
    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id    string       This represents the id of the new object created for the POST API call.
  id               string       This represents the key for the localized property file to be used by UI to show the localized string.
  message          string       Success or error message
  messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  messages [{
  Array of object:
      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
      message         string    Success or error message
      field_name      string    Field name where the error was seen
      messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

3.14 GET /auth/servers/ldap

Returns the LDAP url and its atributes configured

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get LDAP server details configured with NFC

RESPONSE MODEL - application/json

```
{
  url                      string
  attributes               string
  username                 string
  description              string
  user_info {
  This object describes the user information with respect to object like who created or updated the object
      created_by       string    Name of the user who created the object.
      created_at       integer   creation date of this object
      last_updated_by  string    Name of the user who last updated this object
      last_updated_at  integer   last update date of this object
  }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

```
new_object_id   string      This represents the id of the new object created for the POST API call.
id              string      This represents the key for the localized property file to be used by UI to show the localized string.
message         string      Success or error message
messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
messages [{
Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
}]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
new_object_id   string      This represents the id of the new object created for the POST API call.
id              string      This represents the key for the localized property file to be used by UI to show the localized string.
message         string      Success or error message
messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
messages [{
Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
}]
}
```

3.15 PUT /auth/servers/ldap

Configure by giving LDAP server url and credentials to verify authentication with the configured server url.
This API should be invoked to configure LDAP server URL

REQUEST

REQUEST BODY - application/json
```
{
  url*          string  min:1 chars
                        LDAP server url
  username*     string  min:1 chars
                        LDAP username
  password*     string  min:1 chars
                        LDAP password
  attributes*   string  LDAP attributes
  description   string  max:254 chars
                        LDAP config description
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

3.16 DELETE /auth/servers/ldap

Delete the configured Ldap Server from NFC

Deletes the configured LDAP server.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
```

```
        }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

4. BACKUP

Backup APIs related to backup and restore of SFD database.

4.1 GET /backups/locations

Get list of all configured backup location. All the SFD backup data will get uploaded to the backup location.
Get list of all configured backup location

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get all the configured backup location

RESPONSE MODEL - application/json

```
{
```
Lists all the backup locations configured for SFD backups
```
  data [{
```
Array of object: Remote location to backup SFD data. It can be either FTP or SFTP server.

id	string	Unique identifier of the remote backup location
user_info {		

This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object
}		
host*	string	IP or FQDN of backup location server. 1. IP address and port (x.x.x.x:<port_number>) 2. FQDN (domain.com) 3. If the port is not provided then default port for specified protocol will be considered. (FTP:21, SFTP:22)
username*	string	Username of the backup location.
password	string	Password of the backup location. During add cases, password is required. Password is optional in edit and list cases.
backup_path*	string	The location on the backup location at which SFD backup tars will be uploaded. This is path of the base directory setup in the server(/sfdBackup).
protocol*	enum	**ALLOWED:** FTP, SFTP
		The protocol used to upload backup files on remote location
description	string	Add backup location description

```
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
messages [{		

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen

```
        messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
  }
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

4.2 POST /backups/locations

Add a remote location to backup SFD data

REQUEST

REQUEST BODY - application/json
```
{
```
Remote location to backup SFD data. It can be either FTP or SFTP server.

```
    host*          string    IP or FQDN of backup location server. 1. IP address and port (x.x.x.x:<port_number>) 2. FQDN (domain.com) 3.
                             If the port is not provided then default port for specified protocol will be considered.(FTP:21, SFTP:22)
    username*      string    Username of the backup location.
    password       string    Password of the backup location. During add cases, password is required. Password is optional in edit and list
                             cases.
    backup_path*   string    The location on the backup location at which SFD backup tars will be uploaded. This is path of the base
                             directory setup in the server(/sfdBackup).
    protocol*      enum      ALLOWED:FTP, SFTP
                             The protocol used to upload backup files on remote location
    description    string    Add backup location description
}
```

RESPONSE

STATUS CODE - **201:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
```

```
         field_name      string        Field name where the error was seen
         messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
      }]
   }
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
   {
      new_object_id   string        This represents the id of the new object created for the POST API call.
      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string        This represents the key for the localized property file to be used by UI to show the localized string.
         message         string        Success or error message
         field_name      string        Field name where the error was seen
         messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
      }]
   }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
   {
      new_object_id   string        This represents the id of the new object created for the POST API call.
      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string        This represents the key for the localized property file to be used by UI to show the localized string.
         message         string        Success or error message
         field_name      string        Field name where the error was seen
         messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
      }]
   }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id   string        This represents the id of the new object created for the POST API call.
      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string        This represents the key for the localized property file to be used by UI to show the localized string.
         message         string        Success or error message
         field_name      string        Field name where the error was seen
         messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
      }]
```

```
        }
```

4.3 PUT /backups/locations/{id}

Modify backup location configurations

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup location to be updated

REQUEST BODY - application/json
```
{
```
Remote location to backup SFD data. It can be either FTP or SFTP server.

host*	string	IP or FQDN of backup location server. 1. IP address and port (x.x.x.x:<port_number>) 2. FQDN (domain.com) 3. If the port is not provided then default port for specified protocol will be considered.(FTP:21, SFTP:22)
username*	string	Username of the backup location.
password	string	Password of the backup location. During add cases, password is required. Password is optional in edit and list cases.
backup_path*	string	The location on the backup location at which SFD backup tars will be uploaded. This is path of the base directory setup in the server(/sfdBackup).
protocol*	enum	**ALLOWED:**FTP, SFTP
		The protocol used to upload backup files on remote location
description	string	Add backup location description

```
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json
```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json
```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```

```
Array of object:

   id                string      This represents the key for the localized property file to be used by UI to show the localized string.
   message           string      Success or error message
   field_name        string      Field name where the error was seen
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id     string      This represents the id of the new object created for the POST API call.
   id                string      This represents the key for the localized property file to be used by UI to show the localized string.
   message           string      Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id     string      This represents the id of the new object created for the POST API call.
   id                string      This represents the key for the localized property file to be used by UI to show the localized string.
   message           string      Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id     string      This represents the id of the new object created for the POST API call.
   id                string      This represents the key for the localized property file to be used by UI to show the localized string.
   message           string      Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
```

```
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

4.4 DELETE /backups/locations/{id}

Deletes a configured backup location By Id

This api deletes configured backup location used for uploading SFD backup data.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup location

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string    This represents the key for the localized property file to be used by UI to show the localized string.
        message         string    Success or error message
        field_name      string    Field name where the error was seen
        messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string    This represents the key for the localized property file to be used by UI to show the localized string.
        message         string    Success or error message
        field_name      string    Field name where the error was seen
        messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    }]
}
```

4.5 GET /backups/jobs

Get list of all backup job.

Get list of all backup jobs.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get all the backup job.

RESPONSE MODEL - application/json

```
{
Lists all backup jobs

    data [{
    Array of object:  Backup job to take backup of SFD data periodically

        id          string    Unique identifier of the Backup Job
        status      enum      ALLOWED:ACTIVE, EXPIRED
                              Backup job status. If it is expired it will stop generating backup instances.
```

```
user_info {
This object describes the user information with respect to object like who created or updated the object
   created_by        string    Name of the user who created the object.
   created_at        integer   creation date of this object
   last_updated_by   string    Name of the user who last updated this object
   last_updated_at   integer   last update date of this object
}
name*                string    Defines the prefix of the SFD backup tar
location*            string    Configured backup location unique identifier
content*             [enum]    ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA,
                               MONITORING_DATA
                               The type of SFD data being backed up.
description          string    Schedule backup job description
frequency*           enum      ALLOWED:DOES_NOT_REPEAT, HOURLY, DAILY, WEEKLY,
                               MONTHLY
                               The frequency at which SFD data will be backed up.
end_recurrence_type  enum      ALLOWED:NEVER, NUMBER_OF_BACKUPS, END_TIME
                               The type of end recurrence for a backup job
start_time*          integer   Time at which first backup will be taken. The timestamp is defined in epoch milliseconds.
end_time             integer   Time at which backup job will stop taking further backups. The timestamp is defined in
                               epoch milliseconds. This field is needed if the recurrence type is END_TIME
backup_instances     integer   Defines the number of instances after which backup job will stop taking further backups.
                               This field is needed if the recurrence type is NUMBER_OF_BACKUPS.
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
        }]
    }
```
Message in the localized file.

4.6 POST /backups/jobs

Add a backup job to backup SFD data periodically or on demand.

REQUEST

REQUEST BODY - application/json
```
{
```
Backup job to take backup of SFD data periodically

name*	string	Defines the prefix of the SFD backup tar
location*	string	Configured backup location unique identifier
content*	[enum]	**ALLOWED:**CONFIG_DATA, EVENTS_AND_LOGS_DATA, MONITORING_DATA
		The type of SFD data being backed up.
description	string	Schedule backup job description
frequency*	enum	**ALLOWED:**DOES_NOT_REPEAT, HOURLY, DAILY, WEEKLY, MONTHLY
		The frequency at which SFD data will be backed up.
end_recurrence_type	enum	**ALLOWED:**NEVER, NUMBER_OF_BACKUPS, END_TIME
		The type of end recurrence for a backup job
start_time*	integer	Time at which first backup will be taken. The timestamp is defined in epoch milliseconds.
end_time	integer	Time at which backup job will stop taking further backups. The timestamp is defined in epoch milliseconds. This field is needed if the recurrence type is END_TIME
backup_instances	integer	Defines the number of instances after which backup job will stop taking further backups. This field is needed if the recurrence type is NUMBER_OF_BACKUPS.

```
}
```

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json
```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json
```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
        }]
    }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
        }]
    }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
        }]
    }
```

4.7 GET /backups/jobs/{id}

Get backup job by id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup job

RESPONSE

STATUS CODE - 200: Response to get single backup job by id.

RESPONSE MODEL - application/json

```
{
```
Backup job to take backup of SFD data periodically

id	string	Unique identifier of the Backup Job
status	enum	ALLOWED:ACTIVE, EXPIRED
		Backup job status. If it is expired it will stop generating backup instances.

```
    user_info {
```
This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

```
    }
```

name*	string	Defines the prefix of the SFD backup tar
location*	string	Configured backup location unique identifier
content*	[enum]	ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA, MONITORING_DATA
		The type of SFD data being backed up.
description	string	Schedule backup job description
frequency*	enum	ALLOWED:DOES_NOT_REPEAT, HOURLY, DAILY, WEEKLY, MONTHLY
		The frequency at which SFD data will be backed up.
end_recurrence_type	enum	ALLOWED:NEVER, NUMBER_OF_BACKUPS, END_TIME
		The type of end recurrence for a backup job
start_time*	integer	Time at which first backup will be taken. The timestamp is defined in epoch milliseconds.
end_time	integer	Time at which backup job will stop taking further backups. The timestamp is defined in epoch milliseconds. This field is needed if the recurrence type is END_TIME
backup_instances	integer	Defines the number of instances after which backup job will stop taking further backups. This field is needed if the recurrence type is NUMBER_OF_BACKUPS.

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.

```
      message          string        Success or error message
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      }]
   }
```

STATUS CODE - **default**: success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id    string        This represents the id of the new object created for the POST API call.
      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      }]
   }
```

4.8 PUT /backups/jobs/{id}

Modify backup job configurations

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup job to be updated

REQUEST BODY - application/json
```
{
```
Backup job to take backup of SFD data periodically

```
   name*                string      Defines the prefix of the SFD backup tar
   location*            string      Configured backup location unique identifier
   content*             [enum]      ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA, MONITORING_DATA
                                    The type of SFD data being backed up.
   description          string      Schedule backup job description
   frequency*           enum        ALLOWED:DOES_NOT_REPEAT, HOURLY, DAILY, WEEKLY, MONTHLY
                                    The frequency at which SFD data will be backed up.
   end_recurrence_type  enum        ALLOWED:NEVER, NUMBER_OF_BACKUPS, END_TIME
                                    The type of end recurrence for a backup job
   start_time*          integer     Time at which first backup will be taken. The timestamp is defined in epoch milliseconds.
   end_time             integer     Time at which backup job will stop taking further backups. The timestamp is defined in epoch
                                    milliseconds. This field is needed if the recurrence type is END_TIME
```

backup_instances	integer	Defines the number of instances after which backup job will stop taking further backups. This field is needed if the recurrence type is NUMBER_OF_BACKUPS.

}

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
		Success or error message

```
        message           string
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in
                                        the Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    messages [{
    Array of object:
        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    messages [{
    Array of object:
        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

4.9 DELETE /backups/jobs/{id}

Deletes a backup job By Id

This api deletes backup job.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup job

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id    string       This represents the id of the new object created for the POST API call.
  id               string       This represents the key for the localized property file to be used by UI to show the localized string.
  message          string       Success or error message
  messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  messages [{
  Array of object:

    id                 string       This represents the key for the localized property file to be used by UI to show the localized string.
    message            string       Success or error message
    field_name         string       Field name where the error was seen
    messageParams      [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
  }]
}
```

4.10 GET /backups/instances

Get list of all backup instances.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
job-id	string	Get all the backup instances related to a particular job

RESPONSE

STATUS CODE - 200: Response to get single backup instance by id.

RESPONSE MODEL - application/json

```
{
Lists

  data [{
  Array of object:  The list of backup instances taken on this SFD

    id                         string       Unique identifier of the backup instance
    name                       string       Name of the backup instance
    status                     enum         ALLOWED:COMPLETED, COMPLETED_WITH_ERROR,
                                            IN_PROGRESS, ANOTHER_BACKUP_IN_PROGRESS, NOT_SET
                                            the current status of this backup instance.
    size                       integer      Size of the backup tar file in KB.
    version                    string       SFD Version
    content                    [enum]       ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA,
                                            MONITORING_DATA
                                            The type of SFD data being backed up.
    location                   string       Path on Remote location at which backup tar is uploaded
    start_time                 integer      Time in seconds since epoch at which backup was taken.
    completed_time             integer      Time at which backup instance will complete Backup. The timestamp is defined in
                                            epoch milliseconds.
    job_name                   string       The name of backup job this instance belongs to.
    description                string       the description for this backup job.
    additional_information     string       Additional information about this back up instance.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

4.11 GET /backups/instances/{id}

Get information of single backup instance by id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the backup instance

RESPONSE

STATUS CODE - 200: Response to get backup instance by id.

RESPONSE MODEL - application/json

```
{
The list of backup instances taken on this SFD

   id                      string      Unique identifier of the backup instance
   name                    string      Name of the backup instance
   status                  enum        ALLOWED:COMPLETED, COMPLETED_WITH_ERROR, IN_PROGRESS,
```

```
                                      ANOTHER_BACKUP_IN_PROGRESS,  NOT_SET
                                      the current status of this backup instance.
      size                  integer   Size of the backup tar file in KB.
      version               string    SFD Version
      content               [enum]    ALLOWED:CONFIG_DATA,  EVENTS_AND_LOGS_DATA,
                                      MONITORING_DATA
                                      The type of SFD data being backed up.
      location              string    Path on Remote location at which backup tar is uploaded
      start_time            integer   Time in seconds since epoch at which backup was taken.
      completed_time        integer   Time at which backup instance will complete Backup. The timestamp is defined in epoch
                                      milliseconds.
      job_name              string    The name of backup job this instance belongs to.
      description           string    the description for this backup job.
      additional_information string   Additional information about this back up instance.
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
  {
      new_object_id   string      This represents the id of the new object created for the POST API call.
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
      messages [{
      Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
  {
      new_object_id   string      This represents the id of the new object created for the POST API call.
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
      messages [{
      Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
      new_object_id   string      This represents the id of the new object created for the POST API call.
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

| message | string | Success or error message |
| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

4.12 GET /backups/remote-files

Get list of backup files to restore from

Get backups from remote server. If user provides a directory, then return list of backups under this dir. If user provides a file name, then return a single file.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*file_path	string	the path where backups are stored in remote server.
*username	string	Username of remote server
*password	string	Password of remote server.

RESPONSE

STATUS CODE - 200: Response to get backups list from remote server

RESPONSE MODEL - application/json

{
List of backups from remote server

data [{
Array of object: Information about the backup file.

file_id	string	Unique identifier of the backup file
backup_file_name	string	File name of the backup including extension
content	[enum]	ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA, MONITORING_DATA
		The type of SFD data being backed up.
size	integer	The size of this backup file in KB.
backup_time	integer	Time at which the backup was taken. The timestamp is defined in epoch milliseconds.
version	string	Version of SFD. This field is needed for getting restore status. It is not needed when retrieving backups.

}]
}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
		Params array to substitute in the message. This will be used by UI to substitue the params in the

```
    messageParams  [string]        Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:
```

```
      id            string      This represents the key for the localized property file to be used by UI to show the localized string.
      message       string      Success or error message
      field_name    string      Field name where the error was seen
      messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    }]
  }
```

4.13 POST /backups/restore

Initiate a restore by given backups id.

REQUEST

REQUEST BODY - application/json
```
{
Requst to initiate a restore

   file_id  string   Unique identifier of the backup file
}
```

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json
```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id            string      This represents the key for the localized property file to be used by UI to show the localized string.
    message       string      Success or error message
    field_name    string      Field name where the error was seen
    messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json
```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id            string      This represents the key for the localized property file to be used by UI to show the localized string.
    message       string      Success or error message
    field_name    string      Field name where the error was seen
    messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

4.14 GET /backups/restore/status

Get current restore status

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get the status of current restore

RESPONSE MODEL - application/json

```
{
The detailed information of whole restore status.

    file_info {
    Information about the backup file.

        file_id             string        Unique identifier of the backup file
        backup_file_name    string        File name of the backup including extension
        content             [enum]        ALLOWED:CONFIG_DATA, EVENTS_AND_LOGS_DATA,
                                          MONITORING_DATA
```

The type of SFD data being backed up.

size	integer	The size of this backup file in KB.
backup_time	integer	Time at which the backup was taken. The timestamp is defined in epoch milliseconds.
version	string	Version of SFD. This field is needed for getting restore status. It is not needed when retrieving backups.

}

restore_info {
Information about the restore result. It will be shown in restore detail page once restore is completed.

content	[enum]	**ALLOWED:**CONFIG_DATA, EVENTS_AND_LOGS_DATA, MONITORING_DATA
		The type of SFD data being backed up.
version	string	Restored SFD version
acknowledged_by	string	User id of NFC operator who previously have acknowledged this restore.
acknowledged_at	integer	The time in seconds since epoch at which this restore was acknowledged by NFC operator. This field is empty if the acknowledge is in FALSE state.
start_time	integer	Time at which last restore was started. The timestamp is defined in epoch milliseconds.
end_time	integer	Time at which last restore was completed. The timestamp is defined in epoch milliseconds.
restore_status	enum	**ALLOWED:**SUCCESS, FAILED, NOT_SET, ACK
		Restore status
message	string	detailed success or failure message about restore

}

state	enum	**ALLOWED:**NOT_STARTED, DOWNLOADING_FILE_IN_PROGRESS, DOWNLOADING_FILE_FAILED, VALIDATION_IN_PROGRESS, VALIDATION_SUCCESS, VALIDATION_FAILED, RESTORE_STARTED, RESTORE_COMPLETED, RESTORE_FAILED
		Describe the current status of restore.
error_message	string	Showing the error message when restore failed

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message

```
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
  }
```

4.15 POST /backups/restore/status

send request to acknowledge the status

REQUEST

No request parameters

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
message              string        Success or error message
messageParams        [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
messages [{
Array of object:

  id                 string        This represents the key for the localized property file to be used by UI to show the localized string.
  message            string        Success or error message
  field_name         string        Field name where the error was seen
  messageParams      [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
}]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id      string        This represents the id of the new object created for the POST API call.
  id                 string        This represents the key for the localized property file to be used by UI to show the localized string.
  message            string        Success or error message
  messageParams      [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
  messages [{
  Array of object:

    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    field_name       string        Field name where the error was seen
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
  }]
}
```

5. BARE-METAL-HOST

Bare Metal Host object within a fabric intent

5.1 GET /fabric-intents/{fabric-intent-id}/bare-metal-hosts

Retrieve all Bare Metal Host objects within a fabric intent.

This API returns all bare metal host objects within a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Response to get all Bare Metal Hosts or service appliances

RESPONSE MODEL - application/json

{
A list of all the configured Bare Metal Hosts or Service Appliances

  data [{
Array of object: Represents all the configurations details of a Bare Metal Host or Service Appliance.

host_oid	string	Unique identifier for the bare metal host.
host_name	string	Name of the Bare Metal Host or Service Appliance.

    tenant {
Tenant using the Host. This will be available only in the BGP EVPN fabric.

id	string	ID of the tenant.
name	string	Name of the tenant

    }

port_type	enum	**ALLOWED:** TRUNK, ACCESS
		Type of switched interface to be created on the leaf switch for VLAN(s).
use_switch_native_vlan	boolean	Specifies if switch native vlan needs to be used
native_vlan	integer	VLAN that will handle untagged traffic received on TRUNK ports. This will hold the native Vlan ID if switch native vlan is not used.
workload_vlan	[integer]	
description	string	An optional description for the host.

    leaf_switch_config {
Leaf switch rack and the ports on the leaf switches, which the host is connected to.

      switch_1_ports {
A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare metal hosts,
1) It can be used to get all the leaf switch ports tha are connected to the host.
2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

switch_id	string	Unique identifier of the switch
switch_name	string	Name of the switch

        ports [{
Array of object:

port_id	string	Unique identifier of the port
port_name	string	Name of the port

        }]

      }

      switch_2_ports {
A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare

metal hosts,
1) It can be used to get all the leaf switch ports tha are connected to the host.
2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

```
    switch_id      string   Unique identifier of the switch
    switch_name  string   Name of the switch
    ports [{
    Array of object:

        port_id     string   Unique identifier of the port
        port_name  string   Name of the port
    }]
    }
  }
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string    This represents the key for the localized property file to be used by UI to show the localized string.
        message         string    Success or error message
        field_name      string    Field name where the error was seen
        messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string    This represents the key for the localized property file to be used by UI to show the localized string.
        message         string    Success or error message
        field_name      string    Field name where the error was seen
        messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

5.2 POST /fabric-intents/{fabric-intent-id}/bare-metal-hosts

Create a Bare Metal Host or Service Appliance object within a fabric intent.

A non-virtualized host that is connected to a leaf pair in the fabric. To configure this in a data-center, we will need to specify which leafs, and the ports on the leafs to which this bare metal host is connected to. This will allow configuration of

allowed VLANs and switched interfaces on the leaf switches during deployment, so that traffic from these hosts can be handled. This operation can only be done on a fabric intent in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

REQUEST BODY - application/json

```
{
```
Represents all the input parameters required to configure a Bare Metal Host or Service Appliance.

host_name*	string	Name of the Bare Metal Host or Service Appliance.
tenant_oid	string	Id of the tenant who is using the Host. This will be needed only for BGP EVPN Fabric.
port_type*	enum	**ALLOWED:** TRUNK, ACCESS
		Type of switched interface to be created on the leaf switch for VLAN(s).
use_switch_native_vlan	boolean	Specifies if switch native vlan needs to be used
native_vlan	integer	VLAN that will handle untagged traffic received on TRUNK ports. This will hold the native Vlan ID if switch native vlan is not being used.
workload_vlan*	[integer]	
description	string	An optional description for the host.

```
  leaf_switch_config* {
```
Leaf switch rack and the ports on the leaf switches, which the host is connected to.

switch_1_id*	string	ID of one switch in the leaf rack.
switch_2_id*	string	ID of the other switch in the leaf rack.
switch_1_port_ids*	[string]	
switch_2_port_ids*	[string]	

```
  }
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message

messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

5.3 GET /fabric-intents/{fabric-intent-id}/bare-metal-hosts/{id}

Retrieve a Bare Metal Host object within a fabric intent.

This API returns a bare metal host object identified by 'id' within a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the bare metal host object

RESPONSE

STATUS CODE - 200: Response to get a Bare Metal Host or Service Appliance

RESPONSE MODEL - application/json

```
{
```
A list of all the configured Bare Metal Hosts or Service Appliances
```
    data [{
```
Array of object: Represents all the configurations details of a Bare Metal Host or Service Appliance.

host_oid	string	Unique identifier for the bare metal host.
host_name	string	Name of the Bare Metal Host or Service Appliance.

```
        tenant {
```
Tenant using the Host. This will be available only in the BGP EVPN fabric.

id	string	ID of the tenant.
name	string	Name of the tenant

```
        }
```

port_type	enum	**ALLOWED:** TRUNK, ACCESS
		Type of switched interface to be created on the leaf switch for VLAN(s).
use_switch_native_vlan	boolean	Specifies if switch native vlan needs to be used
native_vlan	integer	VLAN that will handle untagged traffic received on TRUNK ports. This will hold the native Vlan ID if switch native vlan is not used.
workload_vlan	[integer]	
description	string	An optional description for the host.

```
        leaf_switch_config {
```
Leaf switch rack and the ports on the leaf switches, which the host is connected to.
```
            switch_1_ports {
```
A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare metal hosts,
1) It can be used to get all the leaf switch ports tha are connected to the host.
2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

switch_id	string	Unique identifier of the switch
switch_name	string	Name of the switch

```
                ports [{
```
Array of object:

port_id	string	Unique identifier of the port
port_name	string	Name of the port

```
                }]
            }
            switch_2_ports {
```
A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare metal hosts,
1) It can be used to get all the leaf switch ports tha are connected to the host.
2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

switch_id	string	Unique identifier of the switch
switch_name	string	Name of the switch

```
                ports [{
```
Array of object:

port_id	string	Unique identifier of the port
port_name	string	Name of the port

```
                }]
            }
        }
```

```
      }]
   }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

5.4 PUT /fabric-intents/{fabric-intent-id}/bare-metal-hosts/{id}

Update a Bare Metal Host object within a fabric intent.

This API updates a bare metal host object identified by 'id' within a fabric intent identified by 'fabric-intent-Id'. This operation can only be done if the fabric intent is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the bare metal host object

REQUEST BODY - application/json

{

Represents all the input parameters required to configure a Bare Metal Host or Service Appliance.

host_name*	string	Name of the Bare Metal Host or Service Appliance.
tenant_oid	string	Id of the tenant who is using the Host. This will be needed only for BGP EVPN Fabric.
port_type*	enum	**ALLOWED:** TRUNK, ACCESS
		Type of switched interface to be created on the leaf switch for VLAN(s).
use_switch_native_vlan	boolean	Specifies if switch native vlan needs to be used
native_vlan	integer	VLAN that will handle untagged traffic received on TRUNK ports. This will hold the native Vlan ID if switch native vlan is not being used.
workload_vlan*	[integer]	
description	string	An optional description for the host.

leaf_switch_config* {

Leaf switch rack and the ports on the leaf switches, which the host is connected to.

switch_1_id*	string	ID of one switch in the leaf rack.
switch_2_id*	string	ID of the other switch in the leaf rack.
switch_1_port_ids*	[string]	
switch_2_port_ids*	[string]	

  }

}

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

5.5 DELETE /fabric-intents/{fabric-intent-id}/bare-metal-hosts/{id}

Delete a Bare Metal Host object within a fabric intent.

This API deletes a bare metal host object identified by '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 fabric intent is in draft state

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the bare metal host object

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id             string        This represents the key for the localized property file to be used by UI to show the localized string.
      message        string        Success or error message
      field_name     string        Field name where the error was seen
      messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id             string        This represents the key for the localized property file to be used by UI to show the localized string.
      message        string        Success or error message
      field_name     string        Field name where the error was seen
      messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:
```

```
          id              string        This represents the key for the localized property file to be used by UI to show the localized string.
          message         string        Success or error message
          field_name      string        Field name where the error was seen
          messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.

      }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
      new_object_id   string        This represents the id of the new object created for the POST API call.
      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

          id              string        This represents the key for the localized property file to be used by UI to show the localized string.
          message         string        Success or error message
          field_name      string        Field name where the error was seen
          messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.

      }]
  }
```

5.6 GET /fabric-intents/{fabric-intent-id}/bare-metal-hosts/availability

Retrieve all available vlans and hostlink ports in the fabric for a leaf rack

This API returns all the vlans that have been configured on a leaf rack via the host networks and vxlan segments. IT also returns all the hostlink ports on the leaf rack that are free, and can be used to connect a bare metal host.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-1-id	string	Unique identifier of one of switches in the leaf rack
*switch-2-id	string	Unique identifier of the other switch in the leaf rack

RESPONSE

STATUS CODE - 200: Response to get all available vlans and ports on a leaf rack, to configure bare metal hosts.

RESPONSE MODEL - application/json

```
  {
  All the vlans that are configured on a leaf rack. Also retrieves all the hostlink ports that are free on the leaf rack, that can be used to connect/
  configure a bare metal host.

      switch_1 {
      A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare metal hosts,
      1) It can be used to get all the leaf switch ports tha are connected to the host.
```

2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

```
    switch_id      string   Unique identifier of the switch
    switch_name    string   Name of the switch
    ports [{
    Array of object:

        port_id    string   Unique identifier of the port
        port_name  string   Name of the port
    }]
}
switch_2 {
```
A model representing a switch, and some/all of the ports on it. This representation can be reused for a lot of use-cases.. For bare metal hosts,
1) It can be used to get all the leaf switch ports tha are connected to the host.
2) It can be used to get all available ports on a leaf switch, which can then be used to configure a host.
For other cases, it can be use to fetch port information for a switch.

```
    switch_id      string   Unique identifier of the switch
    switch_name    string   Name of the switch
    ports [{
    Array of object:

        port_id    string   Unique identifier of the port
        port_name  string   Name of the port
    }]
}
configured_vlans                    [integer]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
    }]
}
```

6. CONFIG

Switch configuration based on fabric intent.

6.1 GET /fabric-intents/{fabric-intent-id}/configurations/vlans

Retrieve host network generated configuration for this Fabric-Intent

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.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Success response to retrieve the VLAN configuration for fabric intent

RESPONSE MODEL - application/json

```
{
  data [{
```
Array of object: This object represents the host side generated configuration for the fabric intent on the switches. Till fabric intent is not deployed it will return the intent configuration.

`vlan_id`	integer	VLAN configured on the fabric intent.
`tenant {`		

Represents a tenant using the fabric.

`tenant_id`	string	Unique identifier of the tenant.
`name*`	string	Name of the tenant
`description`	string	Optional description for the tenant.
`}`		
`description`	string	Description provided on the fabric intent for this vlan.
`type`	enum	**ALLOWED:** MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

```
    switch_vlan_config [{
```
Array of object: VLAN configuration on the switches. This covers the VRRP, Vlan interfaces and port channels.

```
      vrrp {
```
`ip_address`	string	The virtual ip address for the VLAN interface.

```
      }
      virtual_intfs [{
```
Array of object: VLAN virtual interface

`switch_id`	string	The unique identifier of the switch. In L3 fabric case this will be leaf switch and in L2 fabric case this will be Spine switch.
`switch_name`	string	Name of the switch identified by switch_id

```
        intf_name       string    The name of the VLAN interface .
        ip_address      string    The ip address for the VLAN interface.
      }]
      port_channels [{
      Array of object:  The Port channel information for the Vlans created on leaf switches.

        port_channel_name  string  The name of port channel configured on switch.
        lag_id             integer The lag id on the port channel. This will match with the port channel on the peer
                                   switch.
        switch_id          string  The unique identifier of the Leaf switch on which port channel is created.
        switch_name        string  Name of the switch identified by switch_id.
        members [{
        Array of object:  The information about an Ethernet interface.

          id            string   The object id of the interface.
          name          string   the name of the interface.
          switch_id     string   Oid of the switch, on which the interface resides.
          switch_name   string   Name of the switch, on which the interface resides.
        }]
      }]
    }]
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

     id            string     This represents the key for the localized property file to be used by UI to show the localized string.
     message       string     Success or error message
     field_name    string     Field name where the error was seen
     messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

     id            string     This represents the key for the localized property file to be used by UI to show the localized string.
     message       string     Success or error message
     field_name    string     Field name where the error was seen
     messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   }]
}
```

STATUS CODE - **default**: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:
        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

6.2 GET /fabric-intents/{id}/configurations/count

Retrieve a count of the various types of configurations for a fabric intent.

This API retrieves a count of interlinks, vlts, edgelinks and vlans for a fabric intent.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tenant-id	string	Unique identifier of the tenant in an EVPN Fabric.

RESPONSE

STATUS CODE - 200: Response to get count of interlink, vlan, vlt and edgelinks for a fabric intent.

RESPONSE MODEL - application/json

```
{
Object representing the count of interlinks, vlts, vlans and edgelinks for a fabric intent.

    interlinks        integer    Count of individual connections between leafs and spines.
    vlt_interfaces    integer    Count of connections between two leafs and between two spines.
    vlans             integer    Total number of vlans configured.
    edge_links        integer    Count of the number of connection from edge-leafs to the edge-cloud.
    tenants           integer    The number of tenants defined in a VxLAN overlay over L3 Fabric.
    vnis              integer    A count of VxLAN segments defined for all the tenants in a VxLAN overlay over L3 Fabric.
    vlt_pairs         integer    Count of vlt pairs in the fabric.
    bare_metal_hosts  integer    Count of bare metal hosts in the fabric.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

6.3 GET /fabric-intents/{id}/configurations/bgp

Retrieves the ASN number of each switch, its bgp neighbors and loopback address

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of bgp neighbor details for every switch managed by SFD.

RESPONSE MODEL - application/json

```
{
```
List of BGP neighbor details for each switch.
```
    data [{
```
Array of object: The BGP configuration on the switch
```
        switch_id       string      Id of the switch.
        name            string      Name of the switch
        switch_role     enum        ALLOWED:LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
                                    The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF
        as_number       integer     AS number on the switch
        ip_address      string      The loopback IP address or the physical adjacency IP address of the switch
        neighbors [{
```
Array of object: The BGP neighbors for this switch
```
            peer_switch_id      string      Object id of the remote switch
            peer_switch_name    string      Name of the the remote switch
            peer_switch_role    enum        ALLOWED:LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
                                            The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF
            peer_as_number      integer     AS (Autonomus System) of the remote switch
            peer_address        string      Ip Address of the remote switch
        }]
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    messages [{
```
Array of object:
```
        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
```

| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

6.4 GET /fabric-intents/{id}/configurations/vlt-interfaces

Retrieves the VLT interface links between each switch pairs (leaf pairs in an L2/L3 fabric and spine pairs in an L2 fabric)

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of bgp neighbor details for every switch managed by SFD.

RESPONSE MODEL - application/json

{
List of all VLT interfaces configured between switch pairs.

data [{
Array of object: Represents details of VLTi links between two leafs pairs in an L2/L3 fabric, and also between spine pairs in an L2 fabric

self {
Details of the source switch for the VLT link.

domain_id	integer	VLT Domain ID
switch_id	string	The source switch ID.
switch_name	string	The source switch name.

}
peer {

```
        Details of the peer switch for the VLT link.
            domain_id     integer   VLT domain ID.
            switch_id     string    The peer switch ID.
            switch_name   string    The peer switch name.
        }
        links [{
        Array of object:

            self_interface {
            The information about an Ethernet interface.

                id              string   The object id of the interface.
                name            string   the name of the interface.
                switch_id       string   Oid of the switch, on which the interface resides.
                switch_name     string   Name of the switch, on which the interface resides.
            }
            peer_interface {
            The information about an Ethernet interface.

                id              string   The object id of the interface.
                name            string   the name of the interface.
                switch_id       string   Oid of the switch, on which the interface resides.
                switch_name     string   Name of the switch, on which the interface resides.
            }
        }]
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
      }]
   }
```

STATUS CODE - default: success or error response

   RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

6.5 GET /fabric-intents/{id}/configurations/ufd

Retrieves the UFD interfaces for all the switches. The downlink interfaces will be shown only for an ACTIVE fabric intent.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of ufd interfaces for all the switches.

   RESPONSE MODEL - application/json

```
{
List of UFD interface details for all the switches.
   data [{
   Array of object:  Lists the UFD interfaces and other UFD information for a switch.

      switch_id       string      ID of the switch.
      switch_name     string      Name of the switch.
      enabled         boolean     Represents whether UFD is configured on the switch.
      group_id        integer     The id of the UFD. There will be one UFD object per leaf switch.
      interface_members [{
      Array of object:  The information about the UFD interface which is member of a group

         type            enum        ALLOWED:UPLINK, DOWNLINK
                                     Type of the UFD interface

         members {
         The information about an Ethernet interface.

            id              string      The object id of the interface.
            name            string      the name of the interface.
            switch_id       string      Oid of the switch, on which the interface resides.
            switch_name     string      Name of the switch, on which the interface resides.
```

```
        }
      }]
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
```

```
        }
```

6.6 GET /fabric-intents/{id}/configurations/l3-interlinks

Retrieves all the port channel configurations

In an L3 fabric, it retrieves port channels between all the spine and leaf/edge-leaf pairs in the fabric. In an L2 fabric, it retrieves port channels between all the spine and edge-leaf pairs in the fabric.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of interlink configurations for all the switches.

RESPONSE MODEL - application/json

```
{
```
List of interlink configuration details.
```
    data [{
```
Array of object: Represents a connected leaf and spine port channel, and its member interfaces. In an L3 fabric, it represents port channels between a spine and leaf/edge-leaf pair. In an L2 fabric, it represents port channels between a spine and edge-leaf pair.
```
        leaf_port_channel {
```
Port channel on a switch, in an L3 fabric. It will have the interlink IP address assigned to the port channel, in addition to all the other properties of a Port Channel.
```
            id              string  ID of the port channel.
            name            string  Name of the port channel.
            switch_id       string  ID if the switch, whose interfaces are part of this port channel.
            switch_name     string  Name of the switch, whise interfaces are part of this port channel.
            members [{
```
Array of object: The information about an Ethernet interface.
```
                id              string  The object id of the interface.
                name            string  the name of the interface.
                switch_id       string  Oid of the switch, on which the interface resides.
                switch_name     string  Name of the switch, on which the interface resides.
            }]
            ip_address      string  The interlink IP address for this port channel.
        }
        spine_port_channel {
```
Port channel on a switch, in an L3 fabric. It will have the interlink IP address assigned to the port channel, in addition to all the other properties of a Port Channel.
```
            id              string  ID of the port channel.
            name            string  Name of the port channel.
            switch_id       string  ID if the switch, whose interfaces are part of this port channel.
            switch_name     string  Name of the switch, whise interfaces are part of this port channel.
            members [{
```
Array of object: The information about an Ethernet interface.
```
                id              string  The object id of the interface.
                name            string  the name of the interface.
                switch_id       string  Oid of the switch, on which the interface resides.
                switch_name     string  Name of the switch, on which the interface resides.
            }]
            ip_address      string  The interlink IP address for this port channel.
        }
```

```
links [{
Array of object:

    leaf_interface {
    The information about an Ethernet interface.

        id              string   The object id of the interface.
        name            string   the name of the interface.
        switch_id       string   Oid of the switch, on which the interface resides.
        switch_name     string   Name of the switch, on which the interface resides.
    }
    spine_interface {
    The information about an Ethernet interface.

        id              string   The object id of the interface.
        name            string   the name of the interface.
        switch_id       string   Oid of the switch, on which the interface resides.
        switch_name     string   Name of the switch, on which the interface resides.
    }
  }]
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string        This represents the id of the new object created for the POST API call.
  id              string        This represents the key for the localized property file to be used by UI to show the localized string.
  message         string        Success or error message
  messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id   string        This represents the id of the new object created for the POST API call.
  id              string        This represents the key for the localized property file to be used by UI to show the localized string.
  message         string        Success or error message
  messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

6.7 GET /fabric-intents/{id}/configurations/l2-interlinks

Retrieves all the interlinks configurations in an L2 fabric

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of interlink configurations for all the switches in an L2 fabric.

RESPONSE MODEL - application/json

```
{
List of interlink configuration details for all the switches in an L2 fabric.
    data [{
    Array of object:  Represents a VLT port channel on each switch and its peer VLTi switch, in an L2 Fabric.

        vlt_port_channel {
        A logical interface on a switch, that will bind a group of ethernet interface and provides link aggregation. In addition to this, it will be tied to
        a port-channel on its VLT peer, via the lag-id. Through this, any host/switch connected to the VLTi pair can leverage link aggregation and
        redundancy provided by the VLTi pair.

            id               string       ID of the port channel.
            name             string       Name of the port channel.
            switch_id        string       ID if the switch, whose interfaces are part of this port channel.
            switch_name      string       Name of the switch, whise interfaces are part of this port channel.
            members [{
            Array of object:  The information about an Ethernet interface.

                id               string   The object id of the interface.
                name             string   the name of the interface.
                switch_id        string   Oid of the switch, on which the interface resides.
                switch_name      string   Name of the switch, on which the interface resides.

            }]
            lag_id           integer
        }
        peer_vlt_port_channel {
        A logical interface on a switch, that will bind a group of ethernet interface and provides link aggregation. In addition to this, it will be tied to
        a port-channel on its VLT peer, via the lag-id. Through this, any host/switch connected to the VLTi pair can leverage link aggregation and
        redundancy provided by the VLTi pair.
```

```
        id              string      ID of the port channel.
        name            string      Name of the port channel.
        switch_id       string      ID if the switch, whose interfaces are part of this port channel.
        switch_name     string      Name of the switch, whise interfaces are part of this port channel.
        members [{
        Array of object:  The information about an Ethernet interface.

            id                  string    The object id of the interface.
            name                string    the name of the interface.
            switch_id           string    Oid of the switch, on which the interface resides.
            switch_name         string    Name of the switch, on which the interface resides.
        }]
        lag_id          integer
    }
    links [{
    Array of object:

        self_interface {
        The information about an Ethernet interface.

            id                  string    The object id of the interface.
            name                string    the name of the interface.
            switch_id           string    Oid of the switch, on which the interface resides.
            switch_name         string    Name of the switch, on which the interface resides.
        }
        other_interface {
        The information about an Ethernet interface.

            id                  string    The object id of the interface.
            name                string    the name of the interface.
            switch_id           string    Oid of the switch, on which the interface resides.
            switch_name         string    Name of the switch, on which the interface resides.
        }
    }]
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams       [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
```

```
messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                           Message in the localized file.
messages [{
Array of object:

    id              string     This represents the key for the localized property file to be used by UI to show the localized string.
    message         string     Success or error message
    field_name      string     Field name where the error was seen
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string     This represents the id of the new object created for the POST API call.
  id              string     This represents the key for the localized property file to be used by UI to show the localized string.
  message         string     Success or error message
  messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                             Message in the localized file.
  messages [{
  Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    }]
}
```

6.8 GET /fabric-intents/{id}/configurations/vteps

Retrieves VxLAN Tunnel End-point details for all the switches in the BGP eVPN over L3 Fabric.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of VTEP details for all the switches in a BGP eVPN over L3 fabric.

RESPONSE MODEL - application/json

```
{
A list of VTEP details for all the switches in a BGP eVPN over L3 fabric.
  data [{
  Array of object:  The VxLAN Tunnel Endpoint details on a switch in a BGP eVPN over L3 fabric.

    vtep_ip         string   The loopback interface IP address, acting as the VTEP IP for the switch
    description     string   Description for this VTEP.
    routerMac       string   Router MAC IP address.
    vtepSwitchPair [{
    Array of object:  list of all VTEP switches.

        switch_1_id     string   Unique identifier of switch-1 in the leaf pair.
        switch_1_name   string   Name of switch-1 in the leaf pair.
```

```
            switch_2_id      string    Unique identifier of switch-2 in the leaf pair.
            switch_2_name    string    Name of switch-2 in the leaf pair.
        }]
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
```

```
    }]
  }
```

6.9 GET /fabric-intents/{id}/configurations/vxlan-segments

Retrieves Vxlan Segment configurations in an Vxlan Overlay over L3 fabric.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
switch-id	string	If switch id is passed then Vxlan Segments on this switch Id will be only returned

RESPONSE

STATUS CODE - 200: Response to get a list of all Vxlan Segment configurations in an Vxlan OVerlay over L3 fabric.

RESPONSE MODEL - application/json

`{`
List of configurations generatd for all the Vxlan Segments in a Vxlan Overlay over L3 Fabric.

  `data [{`
Array of object: The configurations generated for a Vxlan Segment

vni	integer	the L2 Virtual Network Identifier for the Vxlan Segment.
vni_type	enum	**ALLOWED:** VNI_TYPE_L2VNI, VNI_TYPE_L3VNI The NFC VNI type:VNI_TYPE_L2VNI/ VNI_TYPE_L3VNI.
static_anycast_gateway_ip_address	string	The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.
tenant_id	string	Unique identifier of the tenant whom this segment belongs to.
tenant_name	string	Name of the tenant whom this segment belongs to.

    `switch_pairs [{`
Array of object: The BGP EVPN configuration on a switch rack, which will be part of a VxLAN segment. It specifies: The route-distinguisher that will be used to ensure globally unique prefix set in the BGP IP table, across tenants. The autogenerated RD will be of the format vni:vni The route-target, that will be used to map advertised prefixes to the corresponding tenant VRF table. The auto-generated RT will be of the format vtep:vni. The Vxlan Tunnel Endpoint IP address for the rack. The vlan ID on the rack, which is part of the segment Details of switches that are part of the rack

switch_1_id	string	Unique identifier of switch-1 in the leaf pair.
switch_1_name	string	Name of switch-1 in the leaf pair.
switch_2_id	string	Unique identifier of switch-2 in the leaf pair.
switch_2_name	string	Name of switch-2 in the leaf pair.
virtual_network_ip_1	string	The virtual network interface IP for leaf switch-1 in CIDR notation
virtual_network_ip_2	string	The virtual network interface IP for leaf switch-2 in CIDR notation
vtep_ip	string	VTEP interface IP on leaf-rack in CIDR notation
rd	string	The route-distinguisher that will be used to ensure globally unique prefix set in the BGP IP table, across tenants. The autogenerated RD will be of the format vni:vni
rt	string	The route-target, that will be used to map advertised prefixes to the corresponding tenant VRF table. The auto-generated RT will be of the format vtep:vni.

```
            vlan_id                        integer   The vlan-id on each rack, which this segment stretches on to.
        }]
        description                                  string    An optional description for the VxLAN
                                                               segment.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
```

```
    }]
  }
```

6.10 GET /fabric-intents/{id}/configurations/tenants

Retrieves configurations for all the tenants using the fabric.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get a list of configurations generated for all the tenants using the faric.

RESPONSE MODEL - application/json

```
{
```
List of configurations generated for all the tenants using the fabric.
```
  data [{
```
Array of object: Represents the configurations that are generated for a tenant.
```
    l3_vni        integer   L3 VNI of tenant. This will be used to route packets between Vxlan Segments for a tenant.
    irb_type      enum      ALLOWED:SYMMETRIC, ASYMMETRIC
```
The type of distributed routing used for this tenant.
```
    vm_manager {
```
The VM manager this Tenant is associated to.
```
      id        string    Unique identified of the VM manager.
      name      string    Name of the VM manager.
    }
    name*         string    Name of the tenant
    description   string    Optional description for the tenant.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
  messages [{
```
Array of object:
```
    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

6.11 GET /fabric-intents/{fabric-intent-id}/configurations/host-networks

Retrieves host networks that are configured on all the switch racks for the fabric intent

This API will be used to retrieve host network configurations for an active intent. If called for an non-active intent, it will return a 400 error. For an L3 Fabric, the host networks will be returned. For an EVPN Fabric, the non-stretched vlans will be returned. For an L2 fabric, the host networks will be returned with leaf pairs on which the port channels were created dynamically or via bare metal host configuration. It will also retrieve the spine rack.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent.

RESPONSE

STATUS CODE - 200: Response to get all host networks

RESPONSE MODEL - application/json

```
{
This object is returned in the GET api of host network object

    data [{
```

Array of object: Name and description ref object

id `string` Unique identifier of the nfc host network object.

tenant {

Represents a tenant using the fabric.

   tenant_id `string` Unique identifier of the tenant.

   name* `string` Name of the tenant

   description `string` Optional description for the tenant.

}

tenant_id `string` Unique identifier of the tenant. This is required in a multi-tenant fabric.

vlan_id* `integer` `between 1 and 4096`

Id of the Vlan on host network

type* `enum` **ALLOWED:** `MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER`

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

data* [{

Array of object: Switch pair Host Network Config. For L3 fabric without overlay, if the same VLAN is in another rack, it will have a different IP subnet and they are 2 different bcast domains. So, user needs to provide switch ids and SVI, VRRP VIP per leaf pair if the VLAN is going to span multiple leaf switches. But for L2 fabric switch ids are not needed a SVI is configured on Spine switches and there are going to be only two spines. For l3 fabric switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.For l2 fabric these will be spine switches but these are optional because only 2 spine switches will be there.

   switch_id_1 `string` Unique identifier of the switch 1

   switch_id_2 `string` Unique identifier of the switch 2

   svi_ip_1* `string` **PATTERN:** `((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

SVI interface IP for leaf switch in CIDR notation

   svi_ip_2* `string` **PATTERN:** `((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

SVI interface IP for peer leaf/spine switch in CIDR notation

   vrrp_virtual_ip* `string` **PATTERN:** `((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

Host Network Gateway IP in CIDR notation.

}]

name `string` **PATTERN:** `^(?!\s*$).+`

Name of the object

description `string` description of the object

}]

}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

{

new_object_id `string` This represents the id of the new object created for the POST API call.

id `string` This represents the key for the localized property file to be used by UI to show the localized string.

message `string` Success or error message

messageParams `[string]` Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{

Array of object:

```
        id             string        This represents the key for the localized property file to be used by UI to show the localized string.
        message        string        Success or error message
        field_name     string        Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id             string        This represents the key for the localized property file to be used by UI to show the localized string.
        message        string        Success or error message
        field_name     string        Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id             string        This represents the key for the localized property file to be used by UI to show the localized string.
        message        string        Success or error message
        field_name     string        Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
  }
```

6.12 GET /fabric-intents/{fabric-intent-id}/configurations/rack-vlan-members/{vlan-id}

Retrieves all the port channels that have been created for a vlan, on a switch rack

This API will be called only for an active intent. If called for an inactive intent, it will return a 400 error. For an L3 fabric, it will return all host port channels configured for the vlan on the specified leaf rack. For an L2 fabric, if a leaf rack is specified, then it will return all the host and interlink port channels for the vlan. If a spine rack is specified, it will return all the interlink port channels for the vlan.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent.
*vlan-id	integer	The integer Vlan ID

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-1-id	string	Unique identifier of one switch in the leaf rack
*switch-2-id	string	Unique identifier of the other switch in the leaf rack

RESPONSE

STATUS CODE - 200: Response to get a list of all the port channels created for a vlan on a switch rack

RESPONSE MODEL - application/json

{
Represents all the port channels created for a vlan, on a switch rack

  data [{
Array of object: Represents a port channel created for a vlan, on a switch rack

    port_channel_on_switch_1 {
A logical interface on a switch, that will bind a group of ethernet interface and provides link aggregation. In addition to this, it will be tied to a port-channel on its VLT peer, via the lag-id. Through this, any host/switch connected to the VLTi pair can leverage link aggregation and redundancy provided by the VLTi pair.

id	string	ID of the port channel.
name	string	Name of the port channel.
switch_id	string	ID if the switch, whose interfaces are part of this port channel.
switch_name	string	Name of the switch, whise interfaces are part of this port channel.

      members [{
Array of object: The information about an Ethernet interface.

id	string	The object id of the interface.
name	string	the name of the interface.
switch_id	string	Oid of the switch, on which the interface resides.
switch_name	string	Name of the switch, on which the interface resides.

      }]

lag_id	integer	

    }

    port_channel_on_switch_2 {
A logical interface on a switch, that will bind a group of ethernet interface and provides link aggregation. In addition to this, it will be tied to a port-channel on its VLT peer, via the lag-id. Through this, any host/switch connected to the VLTi pair can leverage link aggregation and redundancy provided by the VLTi pair.

id	string	ID of the port channel.
name	string	Name of the port channel.
switch_id	string	ID if the switch, whose interfaces are part of this port channel.
switch_name	string	Name of the switch, whise interfaces are part of this port channel.

      members [{
Array of object: The information about an Ethernet interface.

id	string	The object id of the interface.
name	string	the name of the interface.
switch_id	string	Oid of the switch, on which the interface resides.
switch_name	string	Name of the switch, on which the interface resides.

      }]

lag_id	integer	

    }

  }]

}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

7. EDGE-LEAF

Edge leafs Service APIs

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

Get all Edge-Connections for given fabric-intent-id
Retrieves all Edge-Connections

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tenant-id	string	Tenant whose edge connections need to be fetched.

RESPONSE

STATUS CODE - 200: Response for Get all Edge-Connections

RESPONSE MODEL - application/json

```
{
List of Fabric Intent output object returned for GET API call
    data [{
    Array of object:
        id                  string                  Unique identifier of the Edge connection of fabric intent
        name                string                  Name of this Edge Connection
        tenant {
        Represents a tenant using the fabric.
            tenant_id   string   Unique identifier of the tenant.
            name*       string   Name of the tenant
            description string   Optional description for the tenant.
        }
        localAddress {
        base object for CIDR IP Adress
            IpAddress*  string   PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                 (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                 Address part of the subnet in the CIDR notation
            prefixLen*  integer  between 0 and  32
                                 DEFAULT:16
                                 Mask part of the subnet in the CIDR notation
        }
        remoteAddress {
        base object for CIDR IP Adress
            IpAddress*  string   PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                 (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                 Address part of the subnet in the CIDR notation
            prefixLen*  integer  between 0 and  32
                                 DEFAULT:16
```

```
      }
      localAsn                    integer                ASN number of the source, i.e. source of this Edge-Connection
      remoteAsn                   integer                ASN number of the destination, i.e. other end of this Edge-
                                                         Connection
      localInterfaceInfo {
         localInterfaceId    string    Interface ID of the source Edge-Leaf which will form Edge-Connection
         localInterfaceName  string    name of local interface
      }
      edgeSwitchInfo {
         edgeSwitchId    string    ObjectId of the Edge switch
         edgeSwitchName  string    Name of the Edge Switch
      }
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      field_name       string        Field name where the error was seen
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      field_name       string        Field name where the error was seen
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
```

| message | string | Success or error message |
| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

```
messages [{
Array of object:

   id            string    This represents the key for the localized property file to be used by UI to show the localized string.
   message       string    Success or error message
   field_name    string    Field name where the error was seen
   messageParams [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                           Message in the localized file.
}]
}
```

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

Create an Edge Connection for given fabric-intent-id

Edge connectivity helps fabric to communicate with workloads outside the fabric. This api creates a new Edge Connection.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id  string    This represents the id of the new object created for the POST API call.
   id             string    This represents the key for the localized property file to be used by UI to show the localized string.
   message        string    Success or error message
   messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

   messages [{
   Array of object:

      id            string    This represents the key for the localized property file to be used by UI to show the localized string.
      message       string    Success or error message
      field_name    string    Field name where the error was seen
      messageParams [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id  string    This represents the id of the new object created for the POST API call.
   id             string    This represents the key for the localized property file to be used by UI to show the localized string.
   message        string    Success or error message
   messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

   messages [{
   Array of object:

      id            string    This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams  [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
  }
```

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

Get Edge-Connection defined by its unique ID for given fabric-intent-id

Retrieves Edge-Connection by its unique ID

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the Edge-Connection

RESPONSE

STATUS CODE - 200: Response for Get Edge-Connections by Id

RESPONSE MODEL - application/json

```
{
  id                      string              Unique identifier of the Edge connection of fabric intent
  name                    string              Name of this Edge Connection
  tenant {
  Represents a tenant using the fabric.

      tenant_id    string   Unique identifier of the tenant.
      name*        string   Name of the tenant
      description  string   Optional description for the tenant.
  }
  localAddress {
  base object for CIDR IP Adress

      IpAddress*   string   PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                            2[0-4][0-9]|[01]?[0-9][0-9]?)

                            Address part of the subnet in the CIDR notation

      prefixLen*   integer  between 0 and  32
                            DEFAULT:16

                            Mask part of the subnet in the CIDR notation

  }
  remoteAddress {
  base object for CIDR IP Adress

      IpAddress*   string   PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                            2[0-4][0-9]|[01]?[0-9][0-9]?)

                            Address part of the subnet in the CIDR notation

      prefixLen*   integer  between 0 and  32
                            DEFAULT:16

                            Mask part of the subnet in the CIDR notation

  }
  localAsn                integer             ASN number of the source, i.e. source of this Edge-Connection
  remoteAsn               integer             ASN number of the destination, i.e. other end of this Edge-Connection
  localInterfaceInfo {
      localInterfaceId    string   Interface ID of the source Edge-Leaf which will form Edge-Connection
      localInterfaceName  string   name of local interface
  }
  edgeSwitchInfo {
      edgeSwitchId      string   ObjectId of the Edge switch
      edgeSwitchName    string   Name of the Edge Switch
  }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  messages [{
  Array of object:

      id            string       This represents the key for the localized property file to be used by UI to show the localized string.
      message       string       Success or error message
      field_name    string       Field name where the error was seen
```

```
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    messages [{
    Array of object:

        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    messages [{
    Array of object:

        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
  }
```

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

Update an Edge Connection for given fabric-intent-id

Edge connectivity helps fabric to communicate with workloads outside the fabric. This api updates an existing Edge-Connection.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the Edge-Connection

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

       id               string      This represents the key for the localized property file to be used by UI to show the localized string.
       message          string      Success or error message
       field_name       string      Field name where the error was seen
       messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

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

Delete an Edge Connection for given fabric-intent-id

Edge connectivity helps fabric to communicate with workloads outside the fabric. This api deletes an existing Edge-Connection.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the Edge-Connection

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

       id               string      This represents the key for the localized property file to be used by UI to show the localized string.
       message          string      Success or error message
       field_name       string      Field name where the error was seen
       messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string       This represents the key for the localized property file to be used by UI to show the localized string.
        message           string       Success or error message
        field_name        string       Field name where the error was seen
        messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
  {
    new_object_id     string         This represents the id of the new object created for the POST API call.
    id                string         This represents the key for the localized property file to be used by UI to show the localized string.
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string       This represents the key for the localized property file to be used by UI to show the localized string.
        message           string       Success or error message
        field_name        string       Field name where the error was seen
        messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
    new_object_id     string         This represents the id of the new object created for the POST API call.
    id                string         This represents the key for the localized property file to be used by UI to show the localized string.
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string       This represents the key for the localized property file to be used by UI to show the localized string.
        message           string       Success or error message
        field_name        string       Field name where the error was seen
        messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
  }
```

8. EVENTS

Events generated in the NFC

8.1 GET /events

Returns list of NFC events.

This API returns all the events generated within NFC.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
type	string	Support partial search for event type. For example, by inputting 'INTERFACE', the returned result will be all events whose type contain "INTERFACE", like INTERFACE_LINK_DOWN_EVENT.
severity	string	Get all the NFC events based on event severity generated within NFC. The Event Severity can be - CLEAR, INFO, WARNING, ERROR or CRITICAL.
referenced-object-id	string	Get all the NFC events generated on the referenced object id. The referenced object id is the unique identifier of the NFC managed object.
related-object-id	string	Get all the NFC events based on related object. The related object id is the unique identifier of the NFC managed object. For example, it can be a switch oid or a fabric oid.
start-time	int64	Get all the NFC events 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.
end-time	int64	Get all the NFC events created before end timestamp(inclusive). The default value for end timestamp is set as current time. The timestamp value is defined in milliseconds since epoch.
message	string	message to support partial search. For example, the message can be "switch up" to search all information containing both "switch" and "up".

RESPONSE

STATUS CODE - 200: Response to get all the NFC events

RESPONSE MODEL - application/json

```
{
Get all the nfc events
  data [{
  Array of object:  Nfc event object
    id          string    Unique identifier of the nfc event object
    type        string    Type of event generated. Ex: INTERFACE_LINK_DOWN_EVENT
    severity    enum      ALLOWED:INFO, WARNING, ERROR, CRITICAL, CLEARED
                          Severity level of the events/alerts
    timestamp   integer   The time in seconds since epoch at which the event was generated.
    message     string    Detailed message describing the generated event.
    referenced_object_id {
    This object defines the NFC object type and the unique identifier for that object type
      id        string    Unique identifier of the referenced object
      type      string    Type of referenced object. Ex - Interface, Switch, etc
    }
  }]
```

```
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string        This represents the id of the new object created for the POST API call.
  id              string        This represents the key for the localized property file to be used by UI to show the localized string.
  message         string        Success or error message
  messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string        This represents the id of the new object created for the POST API call.
  id              string        This represents the key for the localized property file to be used by UI to show the localized string.
  message         string        Success or error message
  messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

8.2 GET /events/{id}

Returns NFC event.

This API returns a NFC event based on Event Id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the NFC event.

RESPONSE

STATUS CODE - 200: Response to get a NFC event

RESPONSE MODEL - application/json

```
{
```

Nfc event object

```
id          string    Unique identifier of the nfc event object
type        string    Type of event generated. Ex: INTERFACE_LINK_DOWN_EVENT
severity    enum      ALLOWED:INFO, WARNING, ERROR, CRITICAL, CLEARED
                      Severity level of the events/alerts
timestamp   integer   The time in seconds since epoch at which the event was generated.
message     string    Detailed message describing the generated event.
referenced_object_id {
This object defines the NFC object type and the unique identifier for that object type

    id    string   Unique identifier of the referenced object
    type  string   Type of referenced object. Ex - Interface, Switch, etc
}
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
new_object_id   string      This represents the id of the new object created for the POST API call.
id              string      This represents the key for the localized property file to be used by UI to show the localized string.
message         string      Success or error message
messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

messages [{
Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

}]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
new_object_id   string      This represents the id of the new object created for the POST API call.
id              string      This represents the key for the localized property file to be used by UI to show the localized string.
message         string      Success or error message
messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
messages [{
Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

}]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
new_object_id   string      This represents the id of the new object created for the POST API call.
id              string      This represents the key for the localized property file to be used by UI to show the localized string.
message         string      Success or error message
messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
}]
}
```

9. FABRIC

NFC Fabric

9.1 GET /fabrics

Fabric object always point to the active FabricIntent

Fabric object is created when any FabricIntent is deployed. This Fabric object points to the FabricIntent which is active and gives Operational state of the FabricIntent

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response for get all Fabric objects

RESPONSE MODEL - application/json

{
This object represent the list of fabric object

    data [{
    Array of object: Fabric

        id   string   Unique identifier of the Fabric object
        fabric_intent_id   string   FabricIntent ID which is being reffered to by this Fabric object.
        fabric_intent_name string   active fabric intent name.
        type   enum   **DEFAULT:**NOT_DEFINED

                                ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT, BGP_EVPN

                                Type of the interlink. This defines how the switches are connected. Based on the type set, corresponding object needs to be set with this input.

        fabric_health   number   current active fabric health in percent.
        switch_info [{
        Array of object: This object represents switch health

            id   string   Unique identifier of the switch.
            name   string   Name of the switch.
            health number   current switch health in percentage.
        }]
    }]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{
    new_object_id   string   This represents the id of the new object created for the POST API call.
    id   string   This represents the key for the localized property file to be used by UI to show the localized string.
    message   string   Success or error message
    messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

    messages [{
    Array of object:

        id   string   This represents the key for the localized property file to be used by UI to show the localized string.
        message   string   Success or error message
        field_name string   Field name where the error was seen
        messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
    }]

```
        }
```

STATUS CODE - default: success or error response

    RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

10. FABRIC-INTENT

Fabric intent provisioning

10.1 GET /fabric-intents

Get all Fabric-Intents
Retrieves all fabric intents

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get all fabric intents

RESPONSE MODEL - application/json

{
List of Fabric Intent output object returned for GET API call

   data [{
   Array of object: Fabric Intent output object returned for GET API call

id	string	Unique identifier of the fabric intent object
name	string	Name of the new fabric-intent
wiring_diagram_id	string	Object id of wiring-diagram on which this intent will be applied.
description	string	Text to describe the fabric-intent

     user_info {
     This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

     }

fabric-type   enum   **DEFAULT:**NOT_DEFINED

                             ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT, BGP_EVPN

                             Type of the interlink. This defines how the switches are connected. Based on the type set, corresponding object needs to be set with this input.

   state {
   Describes the current state and state transitions of this fabric-intent.

current_state enum   **ALLOWED:**DRAFT, PENDING_APPROVAL, APPROVED, DEPLOY_IN_PROGRESS, ACTIVE, INACTIVE

                             States of fabric intent.

timestamp	integer	The time in seconds since epoch at which the current state was set.
timestamp_iso	string	the time in ISO format at which the current state was set.

    }
  }]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the

```
                              Message in the localized file.
      messages [{
      Array of object:
         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
      }]
   }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
   {
      new_object_id   string      This represents the id of the new object created for the POST API call.
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

      messages [{
      Array of object:
         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
      }]
   }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id   string      This represents the id of the new object created for the POST API call.
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

      messages [{
      Array of object:
         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
      }]
   }
```

10.2 POST /fabric-intents

Create a Fabric-Intent

A fabric-intent is a desired state of network and is achieved by providing seed configurations. NFC will translate the provided fabric-intent to the configurations and will deploy to physical switches provided in the topology. Fabric-intent will contain many objects which define the desired need of network like Interlink, host-networks, Edge connectivity etc. A fabric-intent has its own states. Upon creation it is in 'Draft' state. Edits on it or contained objects are allowed. Once the fabric-intent is deployed then it is moved to 'Active' state. Edits in 'Active' state are not allowed. User needs to clone the 'Acitve' intent and new fabric-intent in 'Draft' state will be created. All the contained objects will also be cloned.

REQUEST

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

10.3 GET /fabric-intents/{id}

Get a Fabric-Intent

retrieves a fabric intent represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Response to get a fabric intent

RESPONSE MODEL - application/json

{
Fabric Intent output object returned for GET API call

id	string	Unique identifier of the fabric intent object
name	string	Name of the new fabric-intent
wiring_diagram_id	string	Object id of wiring-diagram on which this intent will be applied.
description	string	Text to describe the fabric-intent

user_info {
This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

}

fabric-type   enum   **DEFAULT:**NOT_DEFINED

         ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT, BGP_EVPN

         Type of the interlink. This defines how the switches are connected. Based on the type set, corresponding object needs to be set with this input.

state {
Describes the current state and state transitions of this fabric-intent.

current_state   enum   **ALLOWED:**DRAFT, PENDING_APPROVAL, APPROVED, DEPLOY_IN_PROGRESS, ACTIVE, INACTIVE

         States of fabric intent.

timestamp	integer	The time in seconds since epoch at which the current state was set.
timestamp_iso	string	the time in ISO format at which the current state was set.

}

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

```
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id    string      This represents the id of the new object created for the POST API call.
  id               string      This represents the key for the localized property file to be used by UI to show the localized string.
  message          string      Success or error message
  messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  messages [{
  Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id    string      This represents the id of the new object created for the POST API call.
  id               string      This represents the key for the localized property file to be used by UI to show the localized string.
  message          string      Success or error message
  messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  messages [{
  Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
  }
```

10.4 PUT /fabric-intents/{id}

Updates the fabric-intent

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

10.5 DELETE /fabric-intents/{id}

Delete a Fabric-Intent

Deletes a fabric intent represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
```

```
      messages [{
      Array of object:

         id                string       This represents the key for the localized property file to be used by UI to show the localized string.
         message           string       Success or error message
         field_name        string       Field name where the error was seen
         messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

      }]
   }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
   {
      new_object_id     string       This represents the id of the new object created for the POST API call.
      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

      messages [{
      Array of object:

         id                string       This represents the key for the localized property file to be used by UI to show the localized string.
         message           string       Success or error message
         field_name        string       Field name where the error was seen
         messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

      }]
   }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id     string       This represents the id of the new object created for the POST API call.
      id                string       This represents the key for the localized property file to be used by UI to show the localized string.
      message           string       Success or error message
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

      messages [{
      Array of object:

         id                string       This represents the key for the localized property file to be used by UI to show the localized string.
         message           string       Success or error message
         field_name        string       Field name where the error was seen
         messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

      }]
   }
```

10.6 POST /fabric-intents/{id}/clone

Clone a Fabric-Intent

Clone an 'Active' fabric intent represented by the requested 'id'. A new fabric-intent, in Draft state, will be created. All contained objects will also be cloned.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

REQUEST BODY - application/json

{

Inputs required to clone a fabric intent

   wiring_diagram_id*   string   Object id of wiring-diagram on which this intent will be applied.

}

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]

}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:
```
     id                string      This represents the key for the localized property file to be used by UI to show the localized string.
     message           string      Success or error message
     field_name        string      Field name where the error was seen
     messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  messages [{
```
Array of object:
```
     id                string      This represents the key for the localized property file to be used by UI to show the localized string.
     message           string      Success or error message
     field_name        string      Field name where the error was seen
     messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
  }]
}
```

10.7 POST /fabric-intents/{id}/check-deploy-impact

Checks the impact of this fabric intent deployment

"Before deploying fabric intent, check can be done if the deployment of this fabric intent is service impacting or not."

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Success response to check deploy impact.

RESPONSE MODEL - application/json

```
{
```
This object returns response to check deploy impact for a fabric intent."
```
  impact   enum   ALLOWED:NONE, SERVICE_IMPACTING
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
```

message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  }]
}

10.8 GET /fabric-intents/{id}/configurations

Retrieve generated configuration for this Fabric-Intent

This returns the generated configuration for the fabric intent represented by this 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Success response to retrieve the fabric intent configuration

RESPONSE MODEL - application/json

```
{
```
This object represents the generated configuration for the fabric intent.

```
  switches [{
```
Array of object: This objects represents the network configuration applied on the switch

```
    id                      string                This is unique identifier of the switch in the fabric
    name                    string                The name of the switch.
    interfaces [{
```
Array of object:

```
      id        string      Unique identifier of the interface in the switch
      type      enum        ALLOWED:ETHERNET, LOOPBACK, ROUTED_VLAN, AGGREGATION, UNDEFINED
                            Describes the type of interface
      role      enum        ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK,
                            LOOPBACK, UNDEFINED, NOT_APPLICABLE
                            Describes the type of connection from one interface to another.
      name      string      Unique name of the interface in the fabric
      addresses [{
```
Array of object: The addressed assigned to this interface.

```
        ip_type      enum      DEFAULT:IPV4
                              ALLOWED:IPV4
                              Type of IP Address
        ip_address   string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                              IP Address assigned to this interface
        prefix       integer   this is prefix of the network.
      }]
    }]
    bgp_config {
```
The BGP configuration on the switch

```
      switch_id      string      Id of the switch.
      name           string      Name of the switch
      switch_role    enum        ALLOWED:LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
                                The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF
      as_number      integer     AS number on the switch
      ip_address     string      The loopback IP address or the physical adjacency IP address of the switch
      neighbors [{
```
Array of object: The BGP neighbors for this switch

```
        peer_switch_id      string      Object id of the remote switch
        peer_switch_name    string      Name of the the remote switch
        peer_switch_role    enum        ALLOWED:LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
                                      The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF
        peer_as_number      integer     AS (Autonomus System) of the remote switch
        peer_address        string      Ip Address of the remote switch
      }]
    }
    rstp {
      enabled   boolean   If enabled RSTP will be configured on leaf switches
    }
    ufd {
```

Lists the UFD interfaces and other UFD information for a switch.

```
switch_id       string    ID of the switch.
switch_name     string    Name of the switch.
enabled         boolean   Represents whether UFD is configured on the switch.
group_id        integer   The id of the UFD. There will be one UFD object per leaf switch.
interface_members [{
```
Array of object: The information about the UFD interface which is member of a group

```
    type            enum        ALLOWED:UPLINK, DOWNLINK
                                Type of the UFD interface

    members {
```
The information about an Ethernet interface.

```
        id              string   The object id of the interface.
        name            string   the name of the interface.
        switch_id       string   Oid of the switch, on which the interface resides.
        switch_name     string   Name of the switch, on which the interface resides.
    }
  }]
}
vlt {
```
VLT configuration on each leaf switch.

```
    domain_id               integer       domain id of the VLT
    peer_switch_id          string        The object id of the peer switch
    peer_switch_name        string        The name of the peer switch
    interface_members [{
```
Array of object: The information about an Ethernet interface.

```
        id              string   The object id of the interface.
        name            string   the name of the interface.
        switch_id       string   Oid of the switch, on which the interface resides.
        switch_name     string   Name of the switch, on which the interface resides.
    }]
}
lacp {
```
LACP (Link aggregation control protocol) is configured when there are multiple links between a leaf switch and a spine switch.

```
    system_priority                integer
    aggregate_interface [{
```
Array of object: This represents the port channel interface.

```
        id              string   The object identifier of this object
        period_type     string   SLOW or FAST
        mode            string   Active or passive
        min_links       integer  The minimum number of link to form the LACP aggregate interface
        lag_id          integer  LAG ID is only for L2 fabric interlink
        interface_members [{
```
Array of object: The information about an Ethernet interface.

```
            id              string   The object id of the interface.
            name            string   the name of the interface.
            switch_id       string   Oid of the switch, on which the interface resides.
            switch_name     string   Name of the switch, on which the interface resides.
        }]
    }]
}
}]
connections [{
```
Array of object: This object represents the connections and ip address assigned to the ethernet interfaces

```
    id      string   Unique identifier of the connection object
    name    string   name of the connection
    role    enum     ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK, LOOPBACK,
                      UNDEFINED, NOT_APPLICABLE
```

```
    endpoint1 {
```
A connection is between two endpoints. This object represents one endpoint of the connection. It tells the switch name, ethernet interface of the endpoint.

```
        switch_id      string    Id of the switch to which this endpoint belongs.
        switch_name    string    The switch name to which this endpoint belongs.
        interface_id   string    Id of the ethernet interface on the this endpoint
        ipaddress      string    IP Address assigned to this ethernet interface in CIDR notation
    }
    endpoint2 {
```
A connection is between two endpoints. This object represents one endpoint of the connection. It tells the switch name, ethernet interface of the endpoint.

```
        switch_id      string    Id of the switch to which this endpoint belongs.
        switch_name    string    The switch name to which this endpoint belongs.
        interface_id   string    Id of the ethernet interface on the this endpoint
        ipaddress      string    IP Address assigned to this ethernet interface in CIDR notation
    }
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string          This represents the id of the new object created for the POST API call.
    id               string          This represents the key for the localized property file to be used by UI to show the localized string.
    message          string          Success or error message
    messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string          This represents the id of the new object created for the POST API call.
    id               string          This represents the key for the localized property file to be used by UI to show the localized string.
    message          string          Success or error message
    messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

10.9 POST /fabric-intents/{id}/approval-request

Send approval request for fabric intent approval.

Fabric-intent needs to be approved before it can be deployed. Once this request is received then fabric-intent will be placed in pending-approval. Once the approval is received then fabric-intent state will change to approved. If the fabric-intent is already in pending-approved state then this api invocation is ignored.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 202: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
```

messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

10.10 POST /fabric-intents/{id}/cancel-approval

Cancel the approval fabric intent approval.

If approval request for the fabric-intent is sent then fabric-intent will be in the pending_approval or approved state. If user wants to edit the fabric-intent then user needs to cancel the approval which will change the state of the fabric intent to the Draft state. In the Draft state user can update the fabric intent.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

Message in the localized file.
      }]
   }

STATUS CODE - default: success or error response

   RESPONSE MODEL - application/json

   {
      new_object_id   string   This represents the id of the new object created for the POST API call.
      id   string   This represents the key for the localized property file to be used by UI to show the localized string.
      message   string   Success or error message
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id   string   This represents the key for the localized property file to be used by UI to show the localized string.
         message   string   Success or error message
         field_name   string   Field name where the error was seen
         messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
      }]
   }

10.11 POST /fabric-intents/{id}/validate

Validate if fabric-intent can be deployed.

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.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Validate response for the fabric intent

   RESPONSE MODEL - application/json

   {
   This object represents the response to the validate request of fabric-intent. This will tell if the fabric-intent can be deployed or not. It will list all the
   message if fabric-intent cannot be deployed.
      deployable   boolean   If the fabric-intent is deployable or not
      messages [{
      Array of object: Message object to define the id and message string

         id   string   This represents the key for the localized property file to be used by UI to show the localized string.
         message   string   Success or error message
      }]
   }

STATUS CODE - 401: You are not authorized to perform this operation.

   RESPONSE MODEL - application/json

   {
      new_object_id   string   This represents the id of the new object created for the POST API call.
      id   string   This represents the key for the localized property file to be used by UI to show the localized string.

```
    message            string        Success or error message
    messageParams      [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

       id               string        This represents the key for the localized property file to be used by UI to show the localized string.
       message          string        Success or error message
       field_name       string        Field name where the error was seen
       messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

10.12 POST /fabric-intents/{id}/deploy

Deploy a fabric-intent to the topology.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
      }]
    }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

10.13 GET /fabric-intents/{id}/deploy-status

Retrieves the current deploy status of the fabric-intent.

This API returns the progression on the current deployment of the fabric-intent. If intent is already deployed then it will return the last deployment progression.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Deploy status response for the fabric intent

RESPONSE MODEL - application/json

```
{
This object defines the progress of deployment of the fabric-intent. It will provide the state of configuration on the switches for a fabric intent.

    deployment_state    enum    ALLOWED:NOT_STARTED, SUCCESS, IN_PROGRESS, PARTIAL_FAILED,
                                FAILED
                                The status of deployment. PARTIAL_FAILED status indicate that there were failure on some switches.

    timestamp {
    Time of the start and end of deployment.

        start_time        integer    The time in secs since epoch at which the deployment was started.
        start_time_iso    string     The time, in iso format, at which the deployment was started.
        end_time          integer    The time in secs since epoch at which the deployment was ended.
        end_time_iso      string     The time, in iso format, at which the deployment was ended.
    }
    deployment_count {
    This tells about the deployment count of switches w.r.t success, in-progress or failure.

        success_count        integer    The count of switches where configuration is done successfully.
        in_progress_count    integer    The count of switches where configuration is in progress.
```

```
            error_count          integer    The count of switches where configuration has failed.
         }
         deployment_progression [{
         Array of object:  This object defines the deployment progression on the individual switch

            id                   string      Unique identifier of the switch object
            name                 string      Name of the switch.
            progress             number      The configuration progress of the switch in percentage.
            status               enum        ALLOWED:SUCCESS, IN_PROGRESS, FAILED
                                             The configuration status on the switch.

            timestamp {
            Time of the start and end of deployment.

               start_time        integer    The time in secs since epoch at which the deployment was started.
               start_time_iso    string     The time, in iso format, at which the deployment was started.
               end_time          integer    The time in secs since epoch at which the deployment was ended.
               end_time_iso      string     The time, in iso format, at which the deployment was ended.
            }
            messages [{
            Array of object:  Message object to define the id and message string

               id        string   This represents the key for the localized property file to be used by UI to show the localized string.
               message   string   Success or error message
            }]
         }]
      }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
   {
      new_object_id   string       This represents the id of the new object created for the POST API call.
      id              string       This represents the key for the localized property file to be used by UI to show the localized string.
      message         string       Success or error message
      messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      messages [{
      Array of object:

         id              string     This represents the key for the localized property file to be used by UI to show the localized string.
         message         string     Success or error message
         field_name      string     Field name where the error was seen
         messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
      }]
   }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
   {
      new_object_id   string       This represents the id of the new object created for the POST API call.
      id              string       This represents the key for the localized property file to be used by UI to show the localized string.
      message         string       Success or error message
      messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      messages [{
      Array of object:

         id              string     This represents the key for the localized property file to be used by UI to show the localized string.
         message         string     Success or error message
         field_name      string     Field name where the error was seen
         messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
```

```
      }]
    }
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

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

Retrieves the deployment status by id of the fabric-intent.

This API returns the deployment status by id of the fabric-intent.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*deployment-id	string	Unique identifier of the fabric intent deployment

RESPONSE

STATUS CODE - **200:** Deploy status response for the fabric intent

RESPONSE MODEL - application/json

```
{
This object defines the progress of deployment of the fabric-intent. It will provide the state of configuration on the switches for a fabric intent.

    deployment_state   enum   ALLOWED:NOT_STARTED, SUCCESS, IN_PROGRESS, PARTIAL_FAILED,
                              FAILED
                              The status of deployment. PARTIAL_FAILED status indicate that there were failure on some switches.

    timestamp {
    Time of the start and end of deployment.

        start_time       integer   The time in secs since epoch at which the deployment was started.
        start_time_iso   string    The time, in iso format, at which the deployment was started.
        end_time         integer   The time in secs since epoch at which the deployment was ended.
        end_time_iso     string    The time, in iso format, at which the deployment was ended.
    }
    deployment_count {
    This tells about the deployment count of switches w.r.t success, in-progress or failure.

        success_count        integer   The count of switches where configuration is done successfully.
        in_progress_count    integer   The count of switches where configuration is in progress.
```

```
        error_count        integer    The count of switches where configuration has failed.
    }
    deployment_progression [{
    Array of object:  This object defines the deployment progression on the individual switch

        id                 string      Unique identifier of the switch object
        name               string      Name of the switch.
        progress           number      The configuration progress of the switch in percentage.
        status             enum        ALLOWED:SUCCESS, IN_PROGRESS, FAILED
                                       The configuration status on the switch.

        timestamp {
        Time of the start and end of deployment.

           start_time      integer   The time in secs since epoch at which the deployment was started.
           start_time_iso  string    The time, in iso format, at which the deployment was started.
           end_time        integer   The time in secs since epoch at which the deployment was ended.
           end_time_iso    string    The time, in iso format, at which the deployment was ended.
        }
        messages [{
        Array of object:  Message object to define the id and message string

           id         string   This represents the key for the localized property file to be used by UI to show the localized string.
           message    string   Success or error message
        }]
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string     This represents the key for the localized property file to be used by UI to show the localized string.
        message         string     Success or error message
        field_name      string     Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string     This represents the key for the localized property file to be used by UI to show the localized string.
        message         string     Success or error message
        field_name      string     Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
```

```
      }]
  }
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

11. HOST-NETWORK

Host Network object with in a fabric intent

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

Retrieve all Host Network objects within a fabric intent. Optionally, it can be filtered for a single tenant in a multi-tenant fabric.

This API returns all host network objects within a fabric intent identified by 'fabric-intent-Id'. Optionally, the host networks can be filtered based on a specific tenant in a multi-tenant fabric.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tenant-id	string	Tenant whose host networks need to be fetched.

RESPONSE

STATUS CODE - 200: Response to get all host networks

RESPONSE MODEL - application/json

{
This object is returned in the GET api of host network object

  data [{
  Array of object: Name and description ref object

    id   string   Unique identifier of the nfc host network object.

    tenant {
    Represents a tenant using the fabric.

      tenant_id   string   Unique identifier of the tenant.
      name*   string   Name of the tenant
      description string   Optional description for the tenant.
    }
    tenant_id   string   Unique identifier of the tenant. This is required in a multi-tenant fabric.
    vlan_id*   integer   between 1 and 4096

                         Id of the Vlan on host network

    type*   enum   ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

    data* [{
    Array of object: Switch pair Host Network Config. For L3 fabric without overlay, if the same VLAN is in another rack, it will have a different

IP subnet and they are 2 different bcast domains. So, user needs to provide switch ids and SVI, VRRP VIP per leaf pair if the VLAN is going to span multiple leaf switches. But for L2 fabric switch ids are not needed a SVI is configured on Spine switches and there are going to be only two spines. For l3 fabric switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.For l2 fabric these will be spine switches but these are optional because only 2 spine switches will be there.

```
        switch_id_1        string    Unique identifier of the switch 1
        switch_id_2        string    Unique identifier of the  switch 2
        svi_ip_1*          string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                     (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                                     [0-9]|3[0-2]))
                                     SVI interface IP for leaf switch in CIDR notation
        svi_ip_2*          string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                     (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                                     [0-9]|3[0-2]))
                                     SVI interface IP for peer leaf/spine switch in CIDR notation
        vrrp_virtual_ip*   string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                     (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                                     [0-9]|3[0-2]))
                                     Host Network Gateway IP in CIDR notation.
    }]
    name            string    PATTERN:^(?!\s*$).+
                              Name of the object
    description  string    description of the object
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
```

```
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

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

Create a Host Network object with in a fabric intent.

A host network provides network connectivity to vCenter managed worloads attached to fabric managed by NFC. To configure a host network following inputs are needed: 1. Vlan Id of the network, 2. Two SVI IP address for leaf/spine switches which are in VLTLINK pair 3. VRRP virtual IP which is host network gateway IP

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

REQUEST BODY - application/json

```
{
Name and description ref object

    tenant_id   string      Unique identifier of the tenant. This is required in a multi-tenant fabric.
    vlan_id*    integer     between 1 and  4096
                            Id of the Vlan on host network

    type*       enum        ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN,
                            TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER
                            Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch.
                            Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and
                            currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one
                            physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an
                            isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all
                            switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage)
                            Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4.
                            TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its
                            mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan
                            is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for
                            Miscellaneous configurations.

    data* [{
    Array of object:  Switch pair Host Network Config. For L3 fabric without overlay, if the same VLAN is in another rack, it will have a different IP
    subnet and they are 2 different bcast domains. So, user needs to provide switch ids and SVI, VRRP VIP per leaf pair if the VLAN is going to span
    multiple leaf switches. But for L2 fabric switch ids are not needed a SVI is configured on Spine switches and there are going to be only two spines.
    For l3 fabric switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.For l2 fabric these will be spine switches but these are optional
    because only 2 spine switches will be there.
```

switch_id_1	string	Unique identifier of the switch 1
switch_id_2	string	Unique identifier of the switch 2
svi_ip_1*	string	PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for leaf switch in CIDR notation
svi_ip_2*	string	PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for peer leaf/spine switch in CIDR notation
vrrp_virtual_ip*	string	PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		Host Network Gateway IP in CIDR notation.

```
}]
name          string    PATTERN:^(?!\s*$).+
```
Name of the object
```
description   string    description of the object
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
      }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

> **RESPONSE MODEL - application/json**
>
> ```
> {
>    new_object_id   string      This represents the id of the new object created for the POST API call.
>    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
>    message         string      Success or error message
>    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
>                                Message in the localized file.
>
>    messages [{
>    Array of object:
>
>       id               string      This represents the key for the localized property file to be used by UI to show the localized string.
>       message          string      Success or error message
>       field_name       string      Field name where the error was seen
>       messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
>                                    Message in the localized file.
>    }]
> }
> ```

STATUS CODE - default: success or error response

> **RESPONSE MODEL - application/json**
>
> ```
> {
>    new_object_id   string      This represents the id of the new object created for the POST API call.
>    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
>    message         string      Success or error message
>    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
>                                Message in the localized file.
>
>    messages [{
>    Array of object:
>
>       id               string      This represents the key for the localized property file to be used by UI to show the localized string.
>       message          string      Success or error message
>       field_name       string      Field name where the error was seen
>       messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
>                                    Message in the localized file.
>    }]
> }
> ```

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

Retrieve a Host Network object within a fabric intent.

This API returns an host network object identified by 'host -network-id' within a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*host-network-id	string	Unique identifier of the host network object

RESPONSE

STATUS CODE - 200: Response to get host network

RESPONSE MODEL - application/json

```
{
```
Name and description ref object

id	string	Unique identifier of the nfc host network object.
tenant {		

Represents a tenant using the fabric.

tenant_id	string	Unique identifier of the tenant.
name*	string	Name of the tenant
description	string	Optional description for the tenant.
}		
tenant_id	string	Unique identifier of the tenant. This is required in a multi-tenant fabric.
vlan_id*	integer	between 1 and 4096

Id of the Vlan on host network

type*	enum	ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

```
    data* [{
```
Array of object: Switch pair Host Network Config. For L3 fabric without overlay, if the same VLAN is in another rack, it will have a different IP subnet and they are 2 different bcast domains. So, user needs to provide switch ids and SVI, VRRP VIP per leaf pair if the VLAN is going to span multiple leaf switches. But for L2 fabric switch ids are not needed a SVI is configured on Spine switches and there are going to be only two spines. For l3 fabric switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.For l2 fabric these will be spine switches but these are optional because only 2 spine switches will be there.

switch_id_1	string	Unique identifier of the switch 1
switch_id_2	string	Unique identifier of the switch 2
svi_ip_1*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))

SVI interface IP for leaf switch in CIDR notation

svi_ip_2*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))

SVI interface IP for peer leaf/spine switch in CIDR notation

vrrp_virtual_ip*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))

Host Network Gateway IP in CIDR notation.

```
    }]
```
name	string	PATTERN:^(?!\s*$).+

Name of the object

description	string	description of the object

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
messages [{		

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

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

Update a Host Network object within a fabric intent.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*host-network-id	string	Unique identifier of the host network object

REQUEST BODY - application/json

{

Name and description ref object

`tenant_id`	string	Unique identifier of the tenant. This is required in a multi-tenant fabric.
`vlan_id*`	integer	between 1 and 4096
		Id of the Vlan on host network
`type*`	enum	**ALLOWED:** MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

`data* [{`

Array of object: Switch pair Host Network Config. For L3 fabric without overlay, if the same VLAN is in another rack, it will have a different IP subnet and they are 2 different bcast domains. So, user needs to provide switch ids and SVI, VRRP VIP per leaf pair if the VLAN is going to span multiple leaf switches. But for L2 fabric switch ids are not needed a SVI is configured on Spine switches and there are going to be only two spines. For l3 fabric switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.For l2 fabric these will be spine switches but these are optional because only 2 spine switches will be there.

`switch_id_1`	string	Unique identifier of the switch 1
`switch_id_2`	string	Unique identifier of the switch 2
`svi_ip_1*`	string	**PATTERN:** ((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		SVI interface IP for leaf switch in CIDR notation
`svi_ip_2*`	string	**PATTERN:** ((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		SVI interface IP for peer leaf/spine switch in CIDR notation
`vrrp_virtual_ip*`	string	**PATTERN:** ((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		Host Network Gateway IP in CIDR notation.

`}]`

`name`	string	**PATTERN:** ^(?!\s*$).+
		Name of the object
`description`	string	description of the object

}

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

{

`new_object_id`	string	This represents the id of the new object created for the POST API call.
`id`	string	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	string	Success or error message
`messageParams`	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

`messages [{`

Array of object:

`id`	string	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	string	Success or error message
`field_name`	string	Field name where the error was seen
`messageParams`	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
      }]
    }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

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

Delete a Host Network object within a fabric intent.

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 fabric intent is in draft state

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*host-network-id	string	Unique identifier of the host network object

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

12. HOSTS

Information about hosts that are connected/discovered in the fabric.

12.1 GET /hosts

this API retrieves all the connected/discovered hosts.

Retrieve a list of hosts that have been connected/discovered in the fabric. If switch-id param is set, then hosts connected to that switch will be returned. Else, all the hosts in the fabric will be returned.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
switch-id	string	Unique identifier of the switch

RESPONSE

STATUS CODE - 200: Represent a list of connected/discovered hosts in the fabric.

RESPONSE MODEL - application/json

{
Represents a list of hosts discovered/connected in the fabric.

    data [{
Array of object: A Model representing an object's unique identifier and name. This can be used in any model where an object's name and identifier needs to be represented.

        connections [{
Array of object: Details of the hostlink connection endpoinnts between the host and the leaf switch

            switch_identifier {
A Model representing an object's unique identifier and name. This can be used in any model where an object's name and identifier needs to be represented.

                id   string Unique identifier of the object.
                name string Name of the object.
            }
            switch_port {
A Model representing an object's unique identifier and name. This can be used in any model where an object's name and identifier needs to be represented.

                id   string Unique identifier of the object.
                name string Name of the object.
            }
            host_port {
A Model representing an object's unique identifier and name. This can be used in any model where an object's name and identifier needs to be represented.

                id   string Unique identifier of the object.
                 name string Name of the object.
            }
            host_pnic_mac_address   string   Mac address of the host port
            vm_manager_id   string   The VM Manager this connection is associated to.
        }]
        associated_vm_managers [{
Array of object: Nfc vCenter/NSX Object

            id   string Unique identifier of the nfc vCenter/NSX object
            name   string Name of the vCenter/NSX VM Manager.
            type   enum **ALLOWED:** VCENTER, NSX

                      Type of the Vm-manager. Currently vCenter and NSX are supported.

```
      url            string      URL of VM manager
      description    string      description of VM Manager
      username       string      VM Manager username
      tenants [{
      Array of object:  Tenant info object

         tenant_id      string      Unique identifier of the tenant.
         tenant_name    string      Name of the tenant.
      }]
      state             enum       ALLOWED:OPERATIONAL, NOT_REACHABLE, INVALID_CREDENTIALS
                                   Operational state of the VM-Manager
   }]
   status                  enum                   ALLOWED:CONNECTED, NOT_CONNECTED
                                                  Whether the host is connected to a leaf switch, and is operational
   type                    enum                   ALLOWED:VIRTUALIZED, BARE_METAL
                                                  Type of the host.
   id                      string                 Unique identifier of the object.
   name                    string                 Name of the object.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id  string      This represents the id of the new object created for the POST API call.
   id             string      This represents the key for the localized property file to be used by UI to show the localized string.
   message        string      Success or error message
   messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id             string      This represents the key for the localized property file to be used by UI to show the localized string.
      message        string      Success or error message
      field_name     string      Field name where the error was seen
      messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id  string      This represents the id of the new object created for the POST API call.
   id             string      This represents the key for the localized property file to be used by UI to show the localized string.
   message        string      Success or error message
   messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id             string      This represents the key for the localized property file to be used by UI to show the localized string.
      message        string      Success or error message
      field_name     string      Field name where the error was seen
      messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

13. IMAGE-SERVER

SFD will use this image-server to upgrade or downgrade image on the switch

13.1 GET /image-servers

Get all image servers

Get all image servers in the system

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Resposne to get all image-server

RESPONSE MODEL - application/json

```
{
```
This object is returned in the GET api of ImageServer
```
  data [{
```
Array of object: This object is returned in the GET api of ImageServer

`id`	`string`	This is unique identifier of the image server
`name`	`string`	`min:1 chars`
		name of this image server
`description`	`string`	description of the imaFabricTopologyServicege server
`url`	`string`	IP or FQDN of image-server
`base_path`	`string`	base directory for image server
`image_source_url`	`string`	READ-ONLY, Source URL of image-server formed by URL and base_path
`protocol`	`string`	supported protocols to access the image server

```
    credential {
      username  string
    }
    user_info {
```
This object describes the user information with respect to object like who created or updated the object

`created_by`	`string`	Name of the user who created the object.
`created_at`	`integer`	creation date of this object
`last_updated_by`	`string`	Name of the user who last updated this object
`last_updated_at`	`integer`	last update date of this object

```
    }
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

`new_object_id`	`string`	This represents the id of the new object created for the POST API call.
`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`field_name`	`string`	Field name where the error was seen

```
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
      }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id                 string      This represents the key for the localized property file to be used by UI to show the localized string.
      message            string      Success or error message
      field_name         string      Field name where the error was seen
      messageParams      [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id                 string      This represents the key for the localized property file to be used by UI to show the localized string.
      message            string      Success or error message
      field_name         string      Field name where the error was seen
      messageParams      [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

13.2 POST /image-servers

Create an image server to upgrade or downgrade the image on the switch

SFD will use this image server to update (upgrade or downgrade) the image on the switch. The operator will need to download the image from switch vendor site and place the image in the this image server. SFD is going to inform the switch about the image server and path of the file. The switch will perform the download of the image from the image server.

REQUEST

REQUEST BODY - application/json
```
{
Name and description ref object

   url*          string  min:1 chars

                         IP or FQDN of image server 1. IP Address
                         x.x.x.x:<port-number>
                         2. url(including base path) with port:
```

```
base_path        string    DEFAULT:/
                           base directory for image server
protocol*        enum      ALLOWED:TFTP, FTP, SFTP, SCP, HTTP
                           supported protocols to access the image server
credential {
```
Credentials are not needed for HTTP and TFTP
```
  username  string
  password  string
}
name*            string    PATTERN:^(?!\s*$).+
                           Name of the object
description      string    description of the object
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized
                              string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
```
Array of object:
```
    id             string     This represents the key for the localized property file to be used by UI to show the localized
                              string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in
                              the Message in the localized file.
  }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized
                              string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
```
Array of object:
```
    id             string     This represents the key for the localized property file to be used by UI to show the localized
                              string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in
                              the Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized
                                 string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:
        id               string      This represents the key for the localized property file to be used by UI to show the localized
                                     string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                     the Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized
                                 string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:
        id               string      This represents the key for the localized property file to be used by UI to show the localized
                                     string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                     the Message in the localized file.
    }]
}
```

13.3 GET /image-servers/{id}

Get an image server by id

Get an image server by an unique identifier

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the Image-Server.

RESPONSE

STATUS CODE - 200: Resposne to get image-server by ID

RESPONSE MODEL - application/json

```
{
```
This object is returned in the GET api of ImageServer

```
id                string    This is unique identifier of the image server
name              string    min:1 chars
                            name of this image server
description       string    description of the imaFabricTopologyServicege server
url               string    IP or FQDN of image-server
base_path         string    base directory for image server
image_source_url  string    READ-ONLY, Source URL of image-server formed by URL and base_path
protocol          string    supported protocols to access the image server
credential {
  username  string
}
user_info {
This object describes the user information with respect to object like who created or updated the object

  created_by       string   Name of the user who created the object.
  created_at       integer  creation date of this object
  last_updated_by  string   Name of the user who last updated this object
  last_updated_at  integer  last update date of this object
}
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:

    id             string     This represents the key for the localized property file to be used by UI to show the localized string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:

    id             string     This represents the key for the localized property file to be used by UI to show the localized string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

      id             string        This represents the key for the localized property file to be used by UI to show the localized string.
      message        string        Success or error message
      field_name     string        Field name where the error was seen
      messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
}
```

13.4 PUT /image-servers/{id}

Update an image server

Update an image server represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the image server

REQUEST BODY - application/json

```
{
Name and description ref object

    url*            string   min:1 chars
                             IP or FQDN of image server 1. IP Address
                             x.x.x.x:<port-number>
                             2. url(including base path) with port:
                             domain.com:<port-number>
                             3. FQDN
                             domain.com
    base_path       string   DEFAULT:/
                             base directory for image server
    protocol*       enum     ALLOWED:TFTP, FTP, SFTP, SCP, HTTP
                             supported protocols to access the image server
    credential {
    Credentials are not needed for HTTP and TFTP

      username      string
      password      string
    }
    name*           string   PATTERN:^(?!\s*$).+
                             Name of the object
    description     string   description of the object
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message           string          Success or error message
      messageParams     [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
      messages [{
      Array of object:

         id              string          This represents the key for the localized property file to be used by UI to show the localized string.
         message         string          Success or error message
         field_name      string          Field name where the error was seen
         messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
      }]
   }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id     string          This represents the id of the new object created for the POST API call.
   id                string          This represents the key for the localized property file to be used by UI to show the localized string.
   message           string          Success or error message
   messageParams     [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
   }]
}
```

13.5 DELETE /image-servers/{id}

Delete an image server

Deletes an ImageServer represented by the requested id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the image server

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id     string          This represents the id of the new object created for the POST API call.
   id                string          This represents the key for the localized property file to be used by UI to show the localized string.
   message           string          Success or error message
   messageParams     [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
```

```
        message           string         Success or error message
        field_name        string         Field name where the error was seen
        messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id     string         This represents the id of the new object created for the POST API call.
    id                string         This represents the key for the localized property file to be used by UI to show the localized string.
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string         This represents the key for the localized property file to be used by UI to show the localized string.
        message           string         Success or error message
        field_name        string         Field name where the error was seen
        messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string         This represents the id of the new object created for the POST API call.
    id                string         This represents the key for the localized property file to be used by UI to show the localized string.
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string         This represents the key for the localized property file to be used by UI to show the localized string.
        message           string         Success or error message
        field_name        string         Field name where the error was seen
        messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string         This represents the id of the new object created for the POST API call.
    id                string         This represents the key for the localized property file to be used by UI to show the localized string.
    message           string         Success or error message
    messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string         This represents the key for the localized property file to be used by UI to show the localized string.
        message           string         Success or error message
        field_name        string         Field name where the error was seen
        messageParams     [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
```

```
    }]
}
```

14. INTERLINK

Interlink object with in a fabric intent

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

Retrieve all Interlink objects with in a fabric intent.

This API returns all interlink objects with in a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Response to get all Interlinks

RESPONSE MODEL - application/json

{

List of interlink objects returned for GET API call

  data [{

  Array of object: Input object to create an Interlink object.

id	string	Unique identifier of the interlink object
fabricIntentId	string	Identified of the Fabric Intent that this interlink object belongs
name	string	min:1 chars
		name of the Interlink
type	enum	DEFAULT:NOT_DEFINED

                      ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT, BGP_EVPN

                      Type of the interlink. This defines how the switches are connected. Based on the type set, corresponding object needs to be set with this input.

  L3_BGP {

  Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

ufd	boolean	DEFAULT:true

                If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its enabled by default.

rstp	boolean	DEFAULT:true

                If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured. Its enabled by default.

mtu	integer	DEFAULT:9000

                MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum is 9000.

    interlink_subnet {

    subnet which will be used to configure the interfaces on the switches

address*	string	DEFAULT:192.168.0.0

                PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

                Address part of the subnet in the CIDR notation

prefix_len*	integer	between 1 and 32

                DEFAULT:16

                Mask part of the subnet in the CIDR notation

    }

    loopback_seed_address {

Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

```
address      string    DEFAULT:10.10.10.1
                       PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                       (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                       Address part of the subnet in the CIDR notation
prefix_len integer    DEFAULT:32
                       Mask part of the subnet in the CIDR notation
}
bgp {
Properties related to BGP configuration

   type          enum      DEFAULT:eBGP
                           ALLOWED:eBGP, iBGP
                           type of the BGP network
   as_leaf_range [{
   Array of object: AS (autonoumus system) number for the switches.

      start integer between 64512 and  65534
      end   integer between 64512 and  65534
   }]
   as_spine_range [{
   Array of object: AS (autonoumus system) number for the switches.

      start integer between 64512 and  65534
      end   integer between 64512 and  65534
   }]
}
bfd {
BFD settings for the fabric

   fabric_bfd_parameters {
   Parameters of a BFD session. At this time, the parameters are read-only.

      interval   integer between 100 and  1000
                           DEFAULT:200
                           Hello packets transmission interval in milliseconds
      min_rx     integer between 100 and  1000
                           DEFAULT:200
                           minimum receive interval for Hello packets in milliseconds
      multiplier integer between 1 and  50
                           DEFAULT:3
                           Number of Hello packets miss that can be tolerated
   }
   edge_bfd_parameters {
   Parameters of a BFD session. At this time, the parameters are read-only.

      interval   integer between 100 and  1000
                           DEFAULT:200
                           Hello packets transmission interval in milliseconds
      min_rx     integer between 100 and  1000
                           DEFAULT:200
                           minimum receive interval for Hello packets in milliseconds
      multiplier integer between 1 and  50
                           DEFAULT:3
                           Number of Hello packets miss that can be tolerated
   }
   enable_edge_bfd         boolean        BFD state for edge connections
   }
}
L2_VLT {
Layer 2 VLT network intent of the fabric. Layer 2 will be upto spine layer.

   ufd     boolean      DEFAULT:true
                       If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be
                       configured. Its enabled by default.
```

```
mtu          integer        DEFAULT:9000
```
MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum is 9000.

```
edge_interlink_ebgp {
```
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

```
  interlink_subnet {
```
subnet which will be used to configure the interfaces on the switches

```
    address*     string    DEFAULT:192.168.0.0
                           PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                           (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
```
Address part of the subnet in the CIDR notation

```
    prefix_len*  integer   between 1 and  32
                           DEFAULT:16
```
Mask part of the subnet in the CIDR notation

```
  }
  loopback_seed_address {
```
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

```
    address      string    DEFAULT:10.10.10.1
                           PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                           (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
```
Address part of the subnet in the CIDR notation

```
    prefix_len   integer   DEFAULT:32
```
Mask part of the subnet in the CIDR notation

```
  }
  bgp {
```
Properties related to BGP configuration

```
    type         enum      DEFAULT:eBGP
                           ALLOWED:eBGP, iBGP
```
type of the BGP network

```
    as_leaf_range [{
```
Array of object: AS (autonoumus system) number for the switches.

```
      start  integer  between 64512 and  65534
      end    integer  between 64512 and  65534
    }]
    as_spine_range [{
```
Array of object: AS (autonoumus system) number for the switches.

```
      start  integer  between 64512 and  65534
      end    integer  between 64512 and  65534
    }]
  }
  bfd {
```
BFD settings for the fabric

```
    fabric_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
      interval     integer   between 100 and  1000
                             DEFAULT:200
```
Hello packets transmission interval in milliseconds

```
      min_rx       integer   between 100 and  1000
                             DEFAULT:200
```
minimum receive interval for Hello packets in milliseconds

```
      multiplier   integer   between 1 and  50
                             DEFAULT:3
```
Number of Hello packets miss that can be tolerated

```
    }
    edge_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
      interval     integer   between 100 and  1000
```

```
                                        DEFAULT:200
                                        Hello packets transmission interval in milliseconds
            min_rx       integer    between 100 and  1000
                                        DEFAULT:200
                                        minimum receive interval for Hello packets in milliseconds
            multiplier   integer    between 1 and  50
                                        DEFAULT:3
                                        Number of Hello packets miss that can be tolerated
        }
        enable_edge_bfd          boolean        BFD state for edge connections
      }
    }
}
BGP_EVPN {
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

    vtep_seed_address {
    The seed address for VxLAN Tunnel EndPoints.

        address      string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                Address part of the subnet in the CIDR notation
        prefix_len  integer    between 32 and  32
                                DEFAULT:32
                                Mask part of the subnet in the CIDR notation

    }
    ufd     boolean    DEFAULT:true
                        If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured.
                        Its enabled by default.
    rstp    boolean    DEFAULT:true
                        If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be
                        configured. Its enabled by default.
    mtu     integer    DEFAULT:9000
                        MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1.
                        For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700
                        and maximum is 9000.
    interlink_subnet {
    subnet which will be used to configure the interfaces on the switches

        address*     string    DEFAULT:192.168.0.0
                                PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                Address part of the subnet in the CIDR notation
        prefix_len* integer    between 1 and  32
                                DEFAULT:16
                                Mask part of the subnet in the CIDR notation

    }
    loopback_seed_address {
    Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

        address      string    DEFAULT:10.10.10.1
                                PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                Address part of the subnet in the CIDR notation
        prefix_len  integer    DEFAULT:32
                                Mask part of the subnet in the CIDR notation

    }
    bgp {
    Properties related to BGP configuration

        type          enum      DEFAULT:eBGP
                                ALLOWED:eBGP, iBGP
                                type of the BGP network
        as_leaf_range [{
```

```
              Array of object:  AS (autonoumus system) number for the switches.
                    start   integer  between 64512 and  65534
                    end     integer  between 64512 and  65534
                }]
                as_spine_range [{
              Array of object:  AS (autonoumus system) number for the switches.

                    start   integer  between 64512 and  65534
                    end     integer  between 64512 and  65534
                }]
            }
            bfd {
          BFD settings for the fabric

                fabric_bfd_parameters {
              Parameters of a BFD session. At this time, the parameters are read-only.

                    interval    integer  between 100 and  1000
                                          DEFAULT:200

                                          Hello packets transmission interval in milliseconds
                    min_rx      integer  between 100 and  1000
                                          DEFAULT:200

                                          minimum receive interval for Hello packets in milliseconds
                    multiplier integer  between 1 and  50
                                          DEFAULT:3

                                          Number of Hello packets miss that can be tolerated

                }
                edge_bfd_parameters {
              Parameters of a BFD session. At this time, the parameters are read-only.

                    interval    integer  between 100 and  1000
                                          DEFAULT:200

                                          Hello packets transmission interval in milliseconds
                    min_rx      integer  between 100 and  1000
                                          DEFAULT:200

                                          minimum receive interval for Hello packets in milliseconds
                    multiplier integer  between 1 and  50
                                          DEFAULT:3

                                          Number of Hello packets miss that can be tolerated

                }
                enable_edge_bfd      boolean      BFD state for edge connections
            }
          }
        }]
    }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
```

}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

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

Create an Interlink object with in a fabric intent.

An interlink object defines how the Leaf-Spine 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.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

REQUEST BODY - application/json

```
{
```
Input object to create an Interlink object.

```
    name                 string              min:1 chars
                                             name of the Interlink
```

```
type              enum          DEFAULT:NOT_DEFINED
                                ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT,
                                BGP_EVPN
                                Type of the interlink. This defines how the switches are connected. Based on the type set,
                                corresponding object needs to be set with this input.
```

L3_BGP {
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

```
  ufd       boolean      DEFAULT:true
                         If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                         enabled by default.
  rstp      boolean      DEFAULT:true
                         If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured.
                         Its enabled by default.
  mtu       integer      DEFAULT:9000
                         MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                         Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum
                         is 9000.
```

interlink_subnet {
subnet which will be used to configure the interfaces on the switches

```
  address*      string      DEFAULT:192.168.0.0
                            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                            (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                            Address part of the subnet in the CIDR notation
  prefix_len*   integer     between 1 and  32
                            DEFAULT:16
                            Mask part of the subnet in the CIDR notation
```

}

loopback_seed_address {
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

```
  address      string      DEFAULT:10.10.10.1
                           PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                           2[0-4][0-9]|[01]?[0-9][0-9]?)
                           Address part of the subnet in the CIDR notation
  prefix_len   integer     DEFAULT:32
                           Mask part of the subnet in the CIDR notation
```

}

bgp {
Properties related to BGP configuration

```
  type          enum       DEFAULT:eBGP
                           ALLOWED:eBGP, iBGP
                           type of the BGP network
```

as_leaf_range [{
Array of object: AS (autonoumus system) number for the switches.

```
    start   integer   between 64512 and  65534
    end     integer   between 64512 and  65534
```

}]

as_spine_range [{
Array of object: AS (autonoumus system) number for the switches.

```
    start   integer   between 64512 and  65534
    end     integer   between 64512 and  65534
```

}]

}

bfd {
BFD settings for the fabric

fabric_bfd_parameters {
Parameters of a BFD session. At this time, the parameters are read-only.

```
    interval    integer   between 100 and  1000
                          DEFAULT:200
                          Hello packets transmission interval in milliseconds
```

```
        min_rx      integer   between 100 and  1000
                              DEFAULT:200
                              minimum receive interval for Hello packets in milliseconds
        multiplier integer   between 1 and  50
                              DEFAULT:3
                              Number of Hello packets miss that can be tolerated
      }
      edge_bfd_parameters {
      Parameters of a BFD session. At this time, the parameters are read-only.

        interval    integer   between 100 and  1000
                              DEFAULT:200
                              Hello packets transmission interval in milliseconds
        min_rx      integer   between 100 and  1000
                              DEFAULT:200
                              minimum receive interval for Hello packets in milliseconds
        multiplier integer   between 1 and  50
                              DEFAULT:3
                              Number of Hello packets miss that can be tolerated
      }
      enable_edge_bfd        boolean        BFD state for edge connections
    }
  }
  L2_VLT {
  Layer 2 VLT network intent of the fabric. Layer 2 will be upto spine layer.

    ufd        boolean      DEFAULT:true
                            If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                            enabled by default.
    mtu        integer      DEFAULT:9000
                            MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                            Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum
                            is 9000.
    edge_interlink_ebgp {
    Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

      interlink_subnet {
      subnet which will be used to configure the interfaces on the switches

        address*     string    DEFAULT:192.168.0.0
                              PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                              Address part of the subnet in the CIDR notation
        prefix_len* integer   between 1 and  32
                              DEFAULT:16
                              Mask part of the subnet in the CIDR notation
      }
      loopback_seed_address {
      Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

        address     string    DEFAULT:10.10.10.1
                              PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                              Address part of the subnet in the CIDR notation
        prefix_len integer    DEFAULT:32
                              Mask part of the subnet in the CIDR notation
      }
      bgp {
      Properties related to BGP configuration

        type        enum      DEFAULT:eBGP
                              ALLOWED:eBGP, iBGP
                              type of the BGP network
        as_leaf_range [{
        Array of object: AS (autonoumus system) number for the switches.
```

```
                start  integer  between 64512 and  65534
                end    integer  between 64512 and  65534
            }]
            as_spine_range [{
            Array of object: AS (autonoumus system) number for the switches.

                start  integer  between 64512 and  65534
                end    integer  between 64512 and  65534
            }]
        }
        bfd {
        BFD settings for the fabric

            fabric_bfd_parameters {
            Parameters of a BFD session. At this time, the parameters are read-only.

                interval    integer  between 100 and  1000
                                     DEFAULT:200

                                     Hello packets transmission interval in milliseconds
                min_rx      integer  between 100 and  1000
                                     DEFAULT:200

                                     minimum receive interval for Hello packets in milliseconds
                multiplier  integer  between 1 and  50
                                     DEFAULT:3

                                     Number of Hello packets miss that can be tolerated

            }
            edge_bfd_parameters {
            Parameters of a BFD session. At this time, the parameters are read-only.

                interval    integer  between 100 and  1000
                                     DEFAULT:200

                                     Hello packets transmission interval in milliseconds
                min_rx      integer  between 100 and  1000
                                     DEFAULT:200

                                     minimum receive interval for Hello packets in milliseconds
                multiplier  integer  between 1 and  50
                                     DEFAULT:3

                                     Number of Hello packets miss that can be tolerated

            }
            enable_edge_bfd       boolean       BFD state for edge connections
        }
    }
}
BGP_EVPN {
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

    vtep_seed_address {
    The seed address for VxLAN Tunnel EndPoints.

        address    string  PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                            2[0-4][0-9]|[01]?[0-9][0-9]?)
                            Address part of the subnet in the CIDR notation
        prefix_len integer between 32 and  32
                            DEFAULT:32

                            Mask part of the subnet in the CIDR notation

    }
    ufd    boolean  DEFAULT:true
                    If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                    enabled by default.
    rstp   boolean  DEFAULT:true
                    If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured.
                    Its enabled by default.
    mtu    integer  DEFAULT:9000
                    MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                    Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum
```

```
interlink_subnet {
```
subnet which will be used to configure the interfaces on the switches

    `address*`   `string`   `DEFAULT:`192.168.0.0

                         `PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                         (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

                         Address part of the subnet in the CIDR notation

    `prefix_len*` `integer` `between 1 and  32`

                         `DEFAULT:`16

                         Mask part of the subnet in the CIDR notation

```
}
loopback_seed_address {
```
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

    `address`   `string`   `DEFAULT:`10.10.10.1

                         `PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                         2[0-4][0-9]|[01]?[0-9][0-9]?)

                         Address part of the subnet in the CIDR notation

    `prefix_len` `integer` `DEFAULT:`32

                         Mask part of the subnet in the CIDR notation

```
}
bgp {
```
Properties related to BGP configuration

    `type`   `enum`   `DEFAULT:`eBGP

                         `ALLOWED:`eBGP, iBGP

                         type of the BGP network

    `as_leaf_range [{`

    Array of object: AS (autonoumus system) number for the switches.

      `start` `integer` `between 64512 and  65534`
      `end`   `integer` `between 64512 and  65534`

    `}]`
    `as_spine_range [{`

    Array of object: AS (autonoumus system) number for the switches.

      `start` `integer` `between 64512 and  65534`
      `end`   `integer` `between 64512 and  65534`

    `}]`
```
}
bfd {
```
BFD settings for the fabric

    `fabric_bfd_parameters {`

    Parameters of a BFD session. At this time, the parameters are read-only.

      `interval`   `integer` `between 100 and  1000`

                         `DEFAULT:`200

                         Hello packets transmission interval in milliseconds

      `min_rx`   `integer` `between 100 and  1000`

                         `DEFAULT:`200

                         minimum receive interval for Hello packets in milliseconds

      `multiplier` `integer` `between 1 and  50`

                         `DEFAULT:`3

                         Number of Hello packets miss that can be tolerated

    `}`
    `edge_bfd_parameters {`

    Parameters of a BFD session. At this time, the parameters are read-only.

      `interval`   `integer` `between 100 and  1000`

                         `DEFAULT:`200

                         Hello packets transmission interval in milliseconds

      `min_rx`   `integer` `between 100 and  1000`

                         `DEFAULT:`200

                         minimum receive interval for Hello packets in milliseconds

```
        multiplier  integer  between 1 and  50
                                DEFAULT:3
                                Number of Hello packets miss that can be tolerated
        }
        enable_edge_bfd       boolean        BFD state for edge connections
      }
    }
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized
                                    string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                    the Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized
                                    string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                    the Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
```

messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
messages [{		
Array of object:		

	id	string	This represents the key for the localized property file to be used by UI to show the localized string.
	message	string	Success or error message
	field_name	string	Field name where the error was seen
	messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

	id	string	This represents the key for the localized property file to be used by UI to show the localized string.
	message	string	Success or error message
	field_name	string	Field name where the error was seen
	messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

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

Retrieve an Interlink object with in a fabric intent.

This API returns an interlink object identified by 'interlink-id' with in a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*interlink-id	string	Unique identifier of the interlink object

RESPONSE

STATUS CODE - 200: Success response to retrieve the interlink

RESPONSE MODEL - application/json

{
Input object to create an Interlink object.

id	string	Unique identifier of the interlink object
fabricIntentId	string	Identified of the Fabric Intent that this interlink object belongs
name	string	min:1 chars
		name of the Interlink
type	enum	DEFAULT:NOT_DEFINED
		ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT,

L3_BGP {

Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

    ufd   boolean   DEFAULT:true

        If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its enabled by default.

    rstp   boolean   DEFAULT:true

        If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured. Its enabled by default.

    mtu   integer   DEFAULT:9000

        MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum is 9000.

    interlink_subnet {

    subnet which will be used to configure the interfaces on the switches

        address*   string   DEFAULT:192.168.0.0

            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

            Address part of the subnet in the CIDR notation

        prefix_len* integer between 1 and 32

            DEFAULT:16

            Mask part of the subnet in the CIDR notation

    }

    loopback_seed_address {

    Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

        address   string   DEFAULT:10.10.10.1

            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

            Address part of the subnet in the CIDR notation

        prefix_len integer DEFAULT:32

            Mask part of the subnet in the CIDR notation

    }

    bgp {

    Properties related to BGP configuration

        type   enum   DEFAULT:eBGP

            ALLOWED:eBGP, iBGP

            type of the BGP network

        as_leaf_range [{

        Array of object: AS (autonoumus system) number for the switches.

            start integer between 64512 and 65534

            end   integer between 64512 and 65534

        }]

        as_spine_range [{

        Array of object: AS (autonoumus system) number for the switches.

            start integer between 64512 and 65534

            end   integer between 64512 and 65534

        }]

    }

    bfd {

    BFD settings for the fabric

        fabric_bfd_parameters {

        Parameters of a BFD session. At this time, the parameters are read-only.

            interval   integer between 100 and 1000

                DEFAULT:200

                Hello packets transmission interval in milliseconds

            min_rx   integer between 100 and 1000

                DEFAULT:200

minimum receive interval for Hello packets in milliseconds

```
        multiplier  integer  between 1 and  50
                              DEFAULT:3
```
Number of Hello packets miss that can be tolerated
```
      }
      edge_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.
```
        interval    integer  between 100 and  1000
                              DEFAULT:200
```
Hello packets transmission interval in milliseconds
```
        min_rx      integer  between 100 and  1000
                              DEFAULT:200
```
minimum receive interval for Hello packets in milliseconds
```
        multiplier  integer  between 1 and  50
                              DEFAULT:3
```
Number of Hello packets miss that can be tolerated
```
      }
      enable_edge_bfd        boolean        BFD state for edge connections
    }
  }
}
L2_VLT {
```
Layer 2 VLT network intent of the fabric. Layer 2 will be upto spine layer.
```
    ufd      boolean     DEFAULT:true
```
If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its enabled by default.
```
    mtu      integer     DEFAULT:9000
```
MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum is 9000.

```
  edge_interlink_ebgp {
```
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric
```
    interlink_subnet {
```
subnet which will be used to configure the interfaces on the switches
```
      address*     string   DEFAULT:192.168.0.0
                            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                            (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
```
Address part of the subnet in the CIDR notation
```
      prefix_len*  integer  between 1 and  32
                            DEFAULT:16
```
Mask part of the subnet in the CIDR notation
```
    }
    loopback_seed_address {
```
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.
```
      address      string   DEFAULT:10.10.10.1
                            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                            (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
```
Address part of the subnet in the CIDR notation
```
      prefix_len   integer  DEFAULT:32
```
Mask part of the subnet in the CIDR notation
```
    }
    bgp {
```
Properties related to BGP configuration
```
      type         enum     DEFAULT:eBGP
                            ALLOWED:eBGP, iBGP
```
type of the BGP network
```
      as_leaf_range [{
```
Array of object: AS (autonoumus system) number for the switches.
```
        start  integer  between 64512 and  65534
        end    integer  between 64512 and  65534
```

```
    }]
  as_spine_range [{
Array of object: AS (autonoumus system) number for the switches.

    start  integer  between 64512 and  65534
    end    integer  between 64512 and  65534
  }]
}
bfd {
BFD settings for the fabric

  fabric_bfd_parameters {
Parameters of a BFD session. At this time, the parameters are read-only.

    interval   integer  between 100 and  1000
                        DEFAULT:200
                        Hello packets transmission interval in milliseconds
    min_rx     integer  between 100 and  1000
                        DEFAULT:200
                        minimum receive interval for Hello packets in milliseconds
    multiplier integer  between 1 and  50
                        DEFAULT:3
                        Number of Hello packets miss that can be tolerated

  }
  edge_bfd_parameters {
Parameters of a BFD session. At this time, the parameters are read-only.

    interval   integer  between 100 and  1000
                        DEFAULT:200
                        Hello packets transmission interval in milliseconds
    min_rx     integer  between 100 and  1000
                        DEFAULT:200
                        minimum receive interval for Hello packets in milliseconds
    multiplier integer  between 1 and  50
                        DEFAULT:3
                        Number of Hello packets miss that can be tolerated

  }
  enable_edge_bfd       boolean        BFD state for edge connections
}
}
}
BGP_EVPN {
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

  vtep_seed_address {
The seed address for VxLAN Tunnel EndPoints.

    address    string   PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                        (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                        Address part of the subnet in the CIDR notation
    prefix_len integer  between 32 and  32
                        DEFAULT:32
                        Mask part of the subnet in the CIDR notation

  }
  ufd     boolean   DEFAULT:true
                    If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                    enabled by default.
  rstp    boolean   DEFAULT:true
                    If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be
                    configured. Its enabled by default.
  mtu     integer   DEFAULT:9000
                    MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                    Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and
                    maximum is 9000.
  interlink_subnet {
```

subnet which will be used to configure the interfaces on the switches

```
    address*      string    DEFAULT:192.168.0.0
                            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                            (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                            Address part of the subnet in the CIDR notation
    prefix_len*   integer   between 1 and  32
                            DEFAULT:16
                            Mask part of the subnet in the CIDR notation
}
loopback_seed_address {
```
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

```
    address       string    DEFAULT:10.10.10.1
                            PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                            (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                            Address part of the subnet in the CIDR notation
    prefix_len    integer   DEFAULT:32
                            Mask part of the subnet in the CIDR notation
}
bgp {
```
Properties related to BGP configuration

```
    type          enum      DEFAULT:eBGP
                            ALLOWED:eBGP, iBGP
                            type of the BGP network
    as_leaf_range [{
```
Array of object: AS (autonoumus system) number for the switches.

```
      start  integer  between 64512 and  65534
      end    integer  between 64512 and  65534
    }]
    as_spine_range [{
```
Array of object: AS (autonoumus system) number for the switches.

```
      start  integer  between 64512 and  65534
      end    integer  between 64512 and  65534
    }]
}
bfd {
```
BFD settings for the fabric

```
    fabric_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
      interval    integer  between 100 and  1000
                          DEFAULT:200
                          Hello packets transmission interval in milliseconds
      min_rx      integer  between 100 and  1000
                          DEFAULT:200
                          minimum receive interval for Hello packets in milliseconds
      multiplier  integer  between 1 and  50
                          DEFAULT:3
                          Number of Hello packets miss that can be tolerated
    }
    edge_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
      interval    integer  between 100 and  1000
                          DEFAULT:200
                          Hello packets transmission interval in milliseconds
      min_rx      integer  between 100 and  1000
                          DEFAULT:200
                          minimum receive interval for Hello packets in milliseconds
      multiplier  integer  between 1 and  50
                          DEFAULT:3
```

```
        }
        enable_edge_bfd        boolean        BFD state for edge connections
      }
    }
  }
```

Number of Hello packets miss that can be tolerated

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  messages [{
  Array of object:
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
```

```
      }]
    }
```

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

Update an Interlink object with in a fabric intent.

This API updates an interlink object identified by 'interlink-id' with in a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*interlink-id	string	Unique identifier of the interlink object

REQUEST BODY - application/json

```
{
```
Input object to create an Interlink object.

name   string   min:1 chars

name of the Interlink

type   enum   DEFAULT:NOT_DEFINED

ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT, BGP_EVPN

Type of the interlink. This defines how the switches are connected. Based on the type set, corresponding object needs to be set with this input.

L3_BGP {

Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

    ufd   boolean   DEFAULT:true

If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its enabled by default.

    rstp   boolean   DEFAULT:true

If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured. Its enabled by default.

    mtu   integer   DEFAULT:9000

MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum is 9000.

    interlink_subnet {

subnet which will be used to configure the interfaces on the switches

        address*   string   DEFAULT:192.168.0.0

PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

Address part of the subnet in the CIDR notation

        prefix_len* integer   between 1 and 32

DEFAULT:16

Mask part of the subnet in the CIDR notation

    }

    loopback_seed_address {

Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

        address   string   DEFAULT:10.10.10.1

PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)

Address part of the subnet in the CIDR notation

        prefix_len integer   DEFAULT:32

Mask part of the subnet in the CIDR notation

    }

```
bgp {
Properties related to BGP configuration

    type          enum          DEFAULT:eBGP
                                ALLOWED:eBGP, iBGP
                                type of the BGP network

    as_leaf_range [{
    Array of object:  AS (autonoumus system) number for the switches.

        start  integer  between 64512 and  65534
        end    integer  between 64512 and  65534
    }]
    as_spine_range [{
    Array of object:  AS (autonoumus system) number for the switches.

        start  integer  between 64512 and  65534
        end    integer  between 64512 and  65534
    }]
}
bfd {
BFD settings for the fabric

    fabric_bfd_parameters {
    Parameters of a BFD session. At this time, the parameters are read-only.

        interval    integer  between 100 and  1000
                                DEFAULT:200
                                Hello packets transmission interval in milliseconds

        min_rx      integer  between 100 and  1000
                                DEFAULT:200
                                minimum receive interval for Hello packets in milliseconds

        multiplier  integer  between 1 and  50
                                DEFAULT:3
                                Number of Hello packets miss that can be tolerated

    }
    edge_bfd_parameters {
    Parameters of a BFD session. At this time, the parameters are read-only.

        interval    integer  between 100 and  1000
                                DEFAULT:200
                                Hello packets transmission interval in milliseconds

        min_rx      integer  between 100 and  1000
                                DEFAULT:200
                                minimum receive interval for Hello packets in milliseconds

        multiplier  integer  between 1 and  50
                                DEFAULT:3
                                Number of Hello packets miss that can be tolerated

    }
    enable_edge_bfd         boolean        BFD state for edge connections
    }
}
L2_VLT {
Layer 2 VLT network intent of the fabric. Layer 2 will be upto spine layer.

    ufd      boolean    DEFAULT:true
                        If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                        enabled by default.
    mtu      integer    DEFAULT:9000
                        MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                        Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum
                        is 9000.
    edge_interlink_ebgp {
    Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

        interlink_subnet {
        subnet which will be used to configure the interfaces on the switches

            address*      string    DEFAULT:192.168.0.0
```

```
                              PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                              Address part of the subnet in the CIDR notation
    prefix_len* integer  between 1 and  32
                         DEFAULT:16
                         Mask part of the subnet in the CIDR notation
}
loopback_seed_address {
Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

    address      string   DEFAULT:10.10.10.1
                          PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                          (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                          Address part of the subnet in the CIDR notation
    prefix_len integer   DEFAULT:32
                         Mask part of the subnet in the CIDR notation
}
bgp {
Properties related to BGP configuration

    type         enum     DEFAULT:eBGP
                          ALLOWED:eBGP, iBGP
                          type of the BGP network
    as_leaf_range [{
    Array of object: AS (autonoumus system) number for the switches.

       start integer  between 64512 and  65534
       end   integer  between 64512 and  65534
    }]
    as_spine_range [{
    Array of object: AS (autonoumus system) number for the switches.

       start integer  between 64512 and  65534
       end   integer  between 64512 and  65534
    }]
}
bfd {
BFD settings for the fabric

    fabric_bfd_parameters {
    Parameters of a BFD session. At this time, the parameters are read-only.

       interval    integer  between 100 and  1000
                            DEFAULT:200
                            Hello packets transmission interval in milliseconds
       min_rx      integer  between 100 and  1000
                            DEFAULT:200
                            minimum receive interval for Hello packets in milliseconds
       multiplier integer  between 1 and  50
                            DEFAULT:3
                            Number of Hello packets miss that can be tolerated
    }
    edge_bfd_parameters {
    Parameters of a BFD session. At this time, the parameters are read-only.

       interval    integer  between 100 and  1000
                            DEFAULT:200
                            Hello packets transmission interval in milliseconds
       min_rx      integer  between 100 and  1000
                            DEFAULT:200
                            minimum receive interval for Hello packets in milliseconds
       multiplier integer  between 1 and  50
                            DEFAULT:3
                            Number of Hello packets miss that can be tolerated
    }
```

```
            enable_edge_bfd          boolean          BFD state for edge connections
        }
    }
}
BGP_EVPN {
Base model holding interlink address, loopback seed and BGP configurations for an L3 Fabric

    vtep_seed_address {
    The seed address for VxLAN Tunnel EndPoints.

        address      string    PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                               2[0-4][0-9]|[01]?[0-9][0-9]?)
                               Address part of the subnet in the CIDR notation
        prefix_len   integer   between 32 and  32
                               DEFAULT:32
                               Mask part of the subnet in the CIDR notation

    }
    ufd      boolean     DEFAULT:true
                         If this property is enabled then on the leaf switches UFD (Uplink Failure detection) will be configured. Its
                         enabled by default.
    rstp     boolean     DEFAULT:true
                         If this property is enabled then on the leaf switches RSTP (Rapid Spanning Tree Protocol) will be configured.
                         Its enabled by default.
    mtu      integer     DEFAULT:9000
                         MTU is maximum transmission unit. The fabric intent MTU must match that on the leaf switches. 1. For
                         Vcenter usecase minimum is 1500 and maximum is 9000 bytes. 2. For NSX minimum is 1700 and maximum
                         is 9000.
    interlink_subnet {
    subnet which will be used to configure the interfaces on the switches

        address*      string    DEFAULT:192.168.0.0
                                PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}
                                (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)
                                Address part of the subnet in the CIDR notation
        prefix_len*  integer   between 1 and  32
                                DEFAULT:16
                                Mask part of the subnet in the CIDR notation

    }
    loopback_seed_address {
    Loopback subnet seed address which will be used to configure the loopback addresses on the switches.

        address      string    DEFAULT:10.10.10.1
                               PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                               2[0-4][0-9]|[01]?[0-9][0-9]?)
                               Address part of the subnet in the CIDR notation
        prefix_len   integer   DEFAULT:32
                               Mask part of the subnet in the CIDR notation

    }
    bgp {
    Properties related to BGP configuration

        type         enum      DEFAULT:eBGP
                               ALLOWED:eBGP, iBGP
                               type of the BGP network

        as_leaf_range [{
        Array of object:  AS (autonoumus system) number for the switches.

            start  integer  between 64512 and  65534
            end    integer  between 64512 and  65534
        }]
        as_spine_range [{
        Array of object:  AS (autonoumus system) number for the switches.

            start  integer  between 64512 and  65534
            end    integer  between 64512 and  65534
        }]
```

```
      }
      bfd {
```
BFD settings for the fabric

```
         fabric_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
            interval    integer   between 100 and  1000
```
DEFAULT:200

Hello packets transmission interval in milliseconds

```
            min_rx      integer   between 100 and  1000
```
DEFAULT:200

minimum receive interval for Hello packets in milliseconds

```
            multiplier  integer   between 1 and  50
```
DEFAULT:3

Number of Hello packets miss that can be tolerated

```
         }
         edge_bfd_parameters {
```
Parameters of a BFD session. At this time, the parameters are read-only.

```
            interval    integer   between 100 and  1000
```
DEFAULT:200

Hello packets transmission interval in milliseconds

```
            min_rx      integer   between 100 and  1000
```
DEFAULT:200

minimum receive interval for Hello packets in milliseconds

```
            multiplier  integer   between 1 and  50
```
DEFAULT:3

Number of Hello packets miss that can be tolerated

```
         }
         enable_edge_bfd        boolean        BFD state for edge connections
      }
   }
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized
                               string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
```
Array of object:

```
      id              string      This represents the key for the localized property file to be used by UI to show the localized
                                  string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                  the Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

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

Delete an Interlink object with in a fabric intent.

This API deletes an interlink object identified by 'interlink-id' with in a fabric intent identified by 'fabric-intent-Id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*interlink-id	string	Unique identifier of the interlink object

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:
```

```
        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        field_name     string       Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        field_name     string       Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
  }
```

15. LIFE CYCLE MANAGEMENT

15.1 GET /lcm/update-jobs

API to get all switch image update jobs

This api will return all the switch image update jobs present in the system

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get all switch image update jobs

RESPONSE MODEL - application/json

{
This object represent the list of switch image server update jobs.

  data [{
  Array of object:

id	string	unique ID of this switch image update job.
name	string	name of this switch image update job.
description	string	description of the switch image update job.
job_type	enum	**ALLOWED:**SCHEDULED, NOW, NOT_SET
		Whether the job is to be scheduled or executed now. This will be popluated once the job is deployed.
scheduled_at	integer	Time in the future that this job needs to be executed, if scheduled, represented in seconds since epoch. This will be popluated once the job is deployed.
os_image_version	string	OS image version that will be installed on the switches.
image_file_name	string	Filename of the image.
job_state	enum	**ALLOWED:**DRAFT, PENDING_APPROVAL, APPROVED, SCHEDULED, IN_PROGRESS, DONE, FAILED, NOT_SET, PARTIAL_SUCCESS
		State of the image update job.
start_time	integer	The overall start time for the update job, in seconds since epoch.
end_time	integer	The overall end time for the update job, in seconds since epoch.

    switch_group {
The switch group on which the job will be deployed. Once the job is approved, the group wont be returned, but it's switch members will be returned.

id	string	Id of the switch / switch group whose image need to be updated.
name	string	Name of the switch / switch group whose image need to be updated.

    }
    switch_members [{
Array of object:

id	string
name	string

    }]
    image_server {

id	string	Id of the image server object.
name	string	Name of the image server object.

    }
    user_info {
This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

    }

```
    extended_path       string       Optional path, if specified, will be appended to the image source URL.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:

    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:

    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:

    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

15.2 POST /lcm/update-jobs

API to create a new job to update switch image.

REQUEST

REQUEST BODY - application/json

```
{
```
Name and description ref object

`image_server_oid*`	`string`	The image server object id that has the details to download the image.
`switch_group_oid*`	`string`	Id of the switch / switch group whose image need to be updated.
`os_image_version*`	`string`	OS image version that will be installed on the switches.
`image_file_name*`	`string`	Filename of the image. It should be taken from the support models and its image file names.
`extended_path`	`string`	Optional path, if specified, will be appeded to the image source URL.
`name*`	`string`	**PATTERN:**`^(?!\s*$).+`
		Name of the object
`description`	`string`	description of the object

```
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
```
`new_object_id`	`string`	This represents the id of the new object created for the POST API call.
`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`field_name`	`string`	Field name where the error was seen
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
```
`new_object_id`	`string`	This represents the id of the new object created for the POST API call.
`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`field_name`	`string`	Field name where the error was seen
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
}
```

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

API to get a switch image update job represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job

RESPONSE

STATUS CODE - 200: Response to get switch image update job by ID

RESPONSE MODEL - application/json

```
{
    id             string        unique ID of this switch image update job.
    name           string        name of this switch image update job.
    description    string        description of the switch image update job.
    job_type       enum          ALLOWED:SCHEDULED, NOW, NOT_SET
```

		Whether the job is to be scheduled or executed now. This will be popluated once the job is deployed.
scheduled_at	integer	Time in the future that this job needs to be executed, if scheduled, represented in seconds since epoch. This will be popluated once the job is deployed.
os_image_version	string	OS image version that will be installed on the switches.
image_file_name	string	Filename of the image.
job_state	enum	**ALLOWED:**DRAFT, PENDING_APPROVAL, APPROVED, SCHEDULED, IN_PROGRESS, DONE, FAILED, NOT_SET, PARTIAL_SUCCESS State of the image update job.
start_time	integer	The overall start time for the update job, in seconds since epoch.
end_time	integer	The overall end time for the update job, in seconds since epoch.

switch_group {
The switch group on which the job will be deployed. Once the job is approved, the group wont be returned, but it's switch members will be returned.

id	string	Id of the switch / switch group whose image need to be updated.
name	string	Name of the switch / switch group whose image need to be updated.

}
switch_members [{
Array of object:

id	string
name	string

}]
image_server {

id	string	Id of the image server object.
name	string	Name of the image server object.

}
user_info {
This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

}

extended_path	string	Optional path, if specified, will be appended to the image source URL.

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.

```
        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

        messages [{
        Array of object:

            id              string       This represents the key for the localized property file to be used by UI to show the localized string.
            message         string       Success or error message
            field_name      string       Field name where the error was seen
            messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.

        }]
    }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
    {
        new_object_id  string       This represents the id of the new object created for the POST API call.
        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

        messages [{
        Array of object:

            id              string       This represents the key for the localized property file to be used by UI to show the localized string.
            message         string       Success or error message
            field_name      string       Field name where the error was seen
            messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.

        }]
    }
```

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

API to update a switch image update job represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the image update job.

REQUEST BODY - application/json

```
{
Name and description ref object

    image_server_oid*   string    The image server object id that has the details to download the image.
    switch_group_oid*   string    Id of the switch / switch group whose image need to be updated.
    os_image_version*   string    OS image version that will be installed on the switches.
    image_file_name*    string    Filename of the image. It should be taken from the support models and its image file names.
    extended_path       string    Optional path, if specified, will be appeded to the image source URL.
    name*               string    PATTERN:^(?!\s*$).+
                                  Name of the object
    description         string    description of the object
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

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

API to delete a switch image update job.

Deletes a switch image update job represented by the requested 'id'. A job can be deleted in DRAFT and APPROVED and DONE state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
```

Message in the localized file.

```
messages [{
Array of object:

    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    field_name        string      Field name where the error was seen
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string      This represents the id of the new object created for the POST API call.
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
            message         string        Success or error message
            field_name      string        Field name where the error was seen
            messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                          Message in the localized file.
        }]
    }
```

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

API to request approval for a switch image update job.

Request approval for a switch image update job represented by the requested 'id'. The job has to be in approved state to deploy.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
    {
        new_object_id   string        This represents the id of the new object created for the POST API call.
        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

        messages [{
        Array of object:
            id              string        This represents the key for the localized property file to be used by UI to show the localized string.
            message         string        Success or error message
            field_name      string        Field name where the error was seen
            messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                          Message in the localized file.
        }]
    }
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
    {
        new_object_id   string        This represents the id of the new object created for the POST API call.
        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

        messages [{
        Array of object:
            id              string        This represents the key for the localized property file to be used by UI to show the localized string.
            message         string        Success or error message
            field_name      string        Field name where the error was seen
            messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                          Message in the localized file.
        }]
```

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      field_name       string        Field name where the error was seen
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      field_name       string        Field name where the error was seen
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
   Array of object:

      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      field_name       string        Field name where the error was seen
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   }]
}
```

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

API to cancel a job that is scheduled to deploy

API to cancel a job that is scheduled to deploy. The cancelled job will return back to Approved state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:
        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:
        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
```

		Params array to substitute in the message. This will be used by UI to substitue the params in the
messageParams	[string]	Message in the localized file.

    messages [{
    Array of object:

        id   string   This represents the key for the localized property file to be used by UI to show the localized string.
        message   string   Success or error message
        field_name   string   Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{
    new_object_id   string   This represents the id of the new object created for the POST API call.
    id   string   This represents the key for the localized property file to be used by UI to show the localized string.
    message   string   Success or error message
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id   string   This represents the key for the localized property file to be used by UI to show the localized string.
        message   string   Success or error message
        field_name   string   Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}

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

API to deploy a switch image update job.

Deploy a switch image update job represented by the requested 'id'. The operator will specify whether 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.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job.

REQUEST BODY - application/json

{
    job_type*   enum   **ALLOWED:** SCHEDULED, NOW
                                Whether the job is to be scheduled or executed now.
    scheduled_at   integer   Time in the future that this job needs to be executed, if scheduled, represented in seconds since epoch.
}

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

{

```
        new_object_id    string      This represents the id of the new object created for the POST API call.
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
        messages [{
        Array of object:

           id                string      This represents the key for the localized property file to be used by UI to show the localized string.
           message           string      Success or error message
           field_name        string      Field name where the error was seen
           messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
        }]
     }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
     {
        new_object_id    string      This represents the id of the new object created for the POST API call.
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
        messages [{
        Array of object:

           id                string      This represents the key for the localized property file to be used by UI to show the localized string.
           message           string      Success or error message
           field_name        string      Field name where the error was seen
           messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
        }]
     }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
     {
        new_object_id    string      This represents the id of the new object created for the POST API call.
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
        messages [{
        Array of object:

           id                string      This represents the key for the localized property file to be used by UI to show the localized string.
           message           string      Success or error message
           field_name        string      Field name where the error was seen
           messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
        }]
     }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
     {
        new_object_id    string      This represents the id of the new object created for the POST API call.
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
```

| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

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

API to get status of a switch image update job.

Get the status of a switch image update job represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch image update job.

RESPONSE

STATUS CODE - 200: Response to get status for a switch image update job.

RESPONSE MODEL - application/json

{
This object returns the status of switch image update job.

start_time	integer	Time in seconds since epoch, when the update job started.
end_time	integer	Time in seconds since epoch, when the update job ended.
status	enum	ALLOWED:NOT_STARTED, IN_PROGRESS, PARTIAL_SUCCESS, SUCCESS, FAILED Represents the overall status of the image update job.

data [{
Array of object: Represents the image update job status for a switch.

switch_member {
| id | string | ID of the switch. |
| name | string | name of the switch. |
}

| update_progress_status | enum | ALLOWED:DOWNLOAD_IN_PROGRESS, INSTALL_IN_PROGRESS, REBOOT_IN_PROGRESS, SWITCH_UNREACHABLE, SWITCH_REACHABILITY_TIMED_OUT, INSTALL_REQUEST_RECEIVED, SUCCESS, FAILED, NOT_SET
Represents the overall status of the image upadate process. |
| error | enum | ALLOWED:NOT_SET, MALFORMED_IMAGE_URL, ANOTHER_INSTALL_IN_PROGRESS, IMAGE_URL_NOT_REACHABLE, DOWNLOAD_FAILED, EXTRACTION_FAILED, DOWNLOAD_VALIDATION_FAILED, IMAGE_INSTALL_FAILED, IMAGE_ACTIVATION_FAILED, IMAGE_SET_BOOT_FAILED, SWITCH_UNREACHABLE
Represents an error during image update, if the progress_status is marked as FAILED. |

download_status {
Represents the status of image download.

| status | enum | ALLOWED:NOT_SET, IDLE, DOWNLOAD_IN_PROGRESS, DOWNLOAD_FAILED, |

```
                   VALIDATION_IN_PROGRESS, VALIDATION_FAILED,
                   EXTRACTION_IN_PROGRESS, EXTRACTION_FAILED, TRANSFER_FAILED,
                   SUCCESS
        file_transfer_status {
        Details of the file transfer process.

            progress_percentage  integer
            start_time           integer   start time in seconds since epoch.
            end_time             integer   end time in seconds since epoch.
            file_size            integer   Size of the file in bytes.
            transfer_rate        integer   file transfer rate in kbps
            message              string    Free form text message from switch.
        }
    }
    install_status {
    Represents the status of image installation.

        status  enum  ALLOWED:NOT_SET, IDLE, INSTALL_IN_PROGRESS, INSTALL_FAILED,
                      BOOT_SET_IN_PROGRESS, BOOT_SET_FAILED, REBOOT_IN_PROGRESS,
                      SUCCESS
        install_status {
        Details of the image install process

            start_time  integer   Start time in seconds since epoch.
            end_time    integer   End time in seconds since epoch.
            message     string    Free form text message from switch.
        }
    }
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

      id                string     This represents the key for the localized property file to be used by UI to show the localized string.
      message           string     Success or error message
      field_name        string     Field name where the error was seen
      messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
  }
```

16. METRICS

Time series based metrics.

16.1 POST /metrics

Gets metric time series within a time range.

Fetches individual set of metric time series or multiple sets of time series.
Omit any optional parameters which are not used.

- To retrieve single/multiple set(s) of time series for a single entity provide entity_id.
- To retrieve single/multiple set(s) of time series for multiple related entities omit
- entity_id and provide a tag which applies to all the time series.

Metrics can be retrieved as raw values or as evaluated points.
For raw metrics do not add the function_name parameter.

Example 1 - Single Entity for Single Raw Time Series Example:

Retrieve in packets between 8am and 9am on April 3rd, 2020.
metric_names = ["in_pkts"]
start_time_unix = 1585926005 (8:00AM on 04/03/2020 as a unix timestamp)
end_time_unix = 1585929605 (9:00AM on 04/03/2020 as a unix timestamp)
entity_id = the unique identifier of the entity

Result:
A default interval is used since interval was omitted from request body.
interval is the interval at which a metric is retrieved in the time range.
E.g. For 8:00am to 9:00am the default interval is 60s. The resulting time
series will have metric points at 8:00am, 8:01am, 8:02am...8:59am, 9:00am

Example 2 - Single Entity for Single Evaluated Time Series:

Using the same parameters as Example 1 but to retrieve the rate of in packets
from 8am to 9am add to the request body:
function_name = "RATE"

Result:
Again, a default interval of 60s will be used since one was not provided.
The resulting set of metric points will have the same timestamps as Example 1
but the value at each timestamp will be the one minute rate of change of in_pkts.

Example 3 - Single Entity for Multiple Raw Time Series Example:

Using the same params as Example 1 above but this time replace metric_names with:
metric_names = ["in_pkts", "in_discards", "out_pkts"]

Result:
Three time series for the entity following the same conventions established in the
previous examples.

Example 4 - Multiple Entity for Single Raw Time Series Example:

In this case we do not want a unique identifier but instead a tag which applies to
any time series which share a metric name and a tag.
Using the same params as in Example 1 above but this time omit entity_id param and add:
tags = [{"switch_oid", "2:222222"}]

Result:

Multiple time series for any entity which share metric_name and switch_id.
In this example it is a in_pkts time series for all interfaces of switch "2:222222".

Example 5 - Retrieving the Latest Metric Point per Time Series:

To fetch the latest metric value for any of the examples above use current time,
as a unix timestamp, for both start_time_unix and end_time_unix.

Result:
One metric point for each timeseries.

Optionally filters time series results by rank.

REQUEST

REQUEST BODY - application/json

```
{
    metric_names*        [string]
    start_time_unix*  integer
    end_time_unix*    integer
    interval          integer




    entity_id         string
    function_name     enum



    tags [{

        key     string
        value   string
    }]
    rank {
        name    enum

        count   integer
    }
}
```

		Start time, as unix timestamp in seconds, from which the metrics will be fetched. Applies to all time series.
		End time, as unix timestamp in seconds, up to which the metrics will be fetched. Applies to all time series.
		Interval, in seconds, at which a metric point is retrieved within start_time and end_time unix. Applies to all time series. If a interval is not provided then a default interval is used. Time Range Default Intervals: * 0 days - 1 day -> 1 min * 1 day - 1 week -> 1 hour * 1 week - 1 month -> 3 hours * 1 month + -> 1 day Note: these default intervals are inputted in seconds. Used mins/hours/days terminology in description only.
		Unique identifier of the entity.
	ALLOWED:RATE, MAX_OVER_TIME, AVG_OVER_TIME	Enum for supported metric function to apply to metrics data. E.g. 'rate()' function. RATE is recommended to only be used for counters. Can only be used if a time range is provided. OVER_TIME functions can only be used if a time range is provided.

Array of object:

name	ALLOWED:TOPK, BOTTOMK	Enum for supported filter of metrics time series data. This is used for topk or bottomk time series.
count		Number of timeseries to return from ranking.

RESPONSE

STATUS CODE - 200: Response for getting metric time series

RESPONSE MODEL - application/json

```
{

    start_time_unix  integer    Start time, as unix timestamp in seconds, at which the metrics were fetched.
    end_time_unix    integer    End time, as unix timestamp in seconds, up to which the metrics were fetched.
    interval         integer    Interval at which metrics swerde fetched.
    metrics [{

        metric_name              string
```

Metric time series.

Array of object: Set of metric time series.

```
   tags [{
   Array of object:

      key      string
      value    string
   }]
   timeseries [{
   Array of object:  Metric points returned from metrics store.

      timestamp   integer   Unix timestamp of metric value.
      value       number    Value of the metric point.
   }]
 }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id               string      This represents the key for the localized property file to be used by UI to show the localized string.
      message          string      Success or error message
      field_name       string      Field name where the error was seen
      messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
```

```
    messages [{
       Array of object:

          id                string      This represents the key for the localized property file to be used by UI to show the localized string.
          message           string      Success or error message
          field_name        string      Field name where the error was seen
          messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

       }]
    }
```

16.2 POST /metrics/aggregation

Gets aggregated metric time series.

Fetches metric time series aggregation by tag.
Can be used to fetch an individual set of metric time series or multiple sets of time series.
Refer to /metrics for details for parameters:
- metric_names
- start_time_unix
- end_time_unix
- interval
- function_name
- tags
The parameter aggregate_by denotes the tag which will be used to aggregate the time series which
results from the metrics request using the list of parameters above.

Use Case Ex. - Get the total number of packets for vteps shared across switches.

There is a fabric with 2 switches and 4 leafs. It has 2 vteps which are shared by leaf pairs.
Thus, vtepA is on leaf1 & leaf2 and vtepB is on leaf3 & leaf4.
Each leaf has the number of packets recieved, as vtep_in_pkts, on itself only.
To get the total number of vtep_in_pkts from vtepA to vtepB it is necessary to aggregate vtep_in_pkts from
each pair of leaf switches.
This is done by aggregating over a tag in vtep_in_pkts timeseries which can group them into being either
part of vtepA or vtepB.

Note:
Be mindful when using aggregations for multiple metric names. This will not result in distinct
aggregations by metric name. Instead all those metrics will be aggregated by aggregation tag.

Additionally, in the response, the metric name 'metric_aggregation' denotes the time series
as the result of an aggregation.

REQUEST

REQUEST BODY - application/json
```
{
    aggregation_function*            enum        ALLOWED:SUM
                                                 Enum for supported aggregation function to apply to metrics data.
                                                 E.g. 'SUM' function.
    aggregation_by*                  string      Name of tag which timeseries from metric_request will be
                                                 aggregated by.
    metric_request* {
       metric_names*     [string]
       start_time_unix*  integer     Start time, as unix timestamp in seconds, from which the metrics will be fetched. Applies to all
                                     time series.
       end_time_unix*    integer     End time, as unix timestamp in seconds, up to which the metrics will be fetched. Applies to all
                                     time series.
       interval          integer     Interval, in seconds, at which a metric point is retrieved within start_time and end_time unix.
                                     Applies to
                                     all time series. If a interval is not provided then a default interval is used.
                                     Time Range Default Intervals:
                                     * 0 days  - 1 day   -> 1 min
```

```
                                    * 1 day  - 1 week  -> 1 hour
                                    * 1 week - 1 month -> 3 hours
                                    * 1 month +        -> 1 day
                                    Note: these default intervals are inputted in seconds. Used mins/hours/days terminology in
                                    description only.
      entity_id         string      Unique identifier of the entity.
      function_name     enum        ALLOWED:RATE, MAX_OVER_TIME, AVG_OVER_TIME
                                    Enum for supported metric function to apply to metrics data. E.g. 'rate()' function.
                                    RATE is recommended to only be used for counters. Can only be used if a time range is
                                    provided. OVER_TIME functions can only be used if a time range is provided.

      tags [{
      Array of object:

         key    string
         value  string
      }]
      rank {
         name   enum       ALLOWED:TOPK, BOTTOMK
                           Enum for supported filter of metrics time series data. This is used for topk or bottomk time series.

         count  integer    Number of timeseries to return from ranking.
      }
    }
  }
```

RESPONSE

STATUS CODE - 200: Response for getting metric time series

RESPONSE MODEL - application/json

```
{
Metric time series.
      start_time_unix  integer   Start time, as unix timestamp in seconds, at which the metrics were fetched.
      end_time_unix    integer   End time, as unix timestamp in seconds, up to which the metrics were fetched.
      interval         integer   Interval at which metrics were fetched.
      metrics [{
      Array of object:  Set of metric time series.

         metric_name          string
         tags [{
         Array of object:

            key    string
            value  string
         }]
         timeseries [{
         Array of object:  Metric points returned from metrics store.

            timestamp  integer   Unix timestamp of metric value.
            value      number    Value of the metric point.
         }]
      }]
  }
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
      new_object_id  string     This represents the id of the new object created for the POST API call.
      id             string     This represents the key for the localized property file to be used by UI to show the localized
                                string.
      message        string     Success or error message
      messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
      messages [{
      Array of object:
```

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

16.3 POST /metrics/distribution

Gets metric distribution for a particular timestamp.
Fetches the distribution of a metric by tag at a particular point in time.

Example - Distribution by tag 'role' for metric name 'interface_health':

2 existing timeseries:

- Time series A:
- interface_health{switch_oid = "2:222222", object_id = "11:111111", role = "edge"}
- Time series B:

- interface_health{switch_oid = "2:222222", object_id = "11:222222", role = "vlt"}

Metric `interface_health` value can range from 0 to 100.

Example: Retrieve distribution of `interface_health` for all interfaces on switch 2:222222 by role at 9:00AM on 04/03/2020.

Request

```
metric_name: "interface_health"
distribution_by: "role"
timestamp_unix: 1585929605
buckets: [
        {
          "name": "unhealthy",
          "start_value": 0,
          "end_value": 25
        },
        {
          "name": "healthy",
          "start_value": 26,
          "end_value": 100
        }
      ]
tags = [{"switch_oid", "2:222222"}]
```

Result:

`interface_health` time series are retrieved for switch 2:222222 at 9:00AM on 04/03/2020.
The time series will each have one value which is the value at 9:00AM on 04/03/2020.
Time series A value = 81. Time series B value = 20.
The count of time series will distributed into healthy and unhealthy buckets according to the values.

Response

Thus resulting in a list of 2 buckets:

```
distributions: [
            {
              bucket: {
                "bucket name": "unhealthy",
                "start_value": 0,
                "end_value": 25
              },
              distribution: {
                [ {"role": "vlt", "count": 1} ]
              }
            },
            {
              bucket: {
                "bucket name": "healthy",
                "start_value": 26,
                "end_value": 100
              },
              distribution: {
                [ {"role": "edge", "count": 1} ]
              }
            },
          ]
```

If no buckets are provided then metric_name will be distributed into default buckets.
The parameter tags is not required but it is highly reccomended to add least switch_oid.

REQUEST

REQUEST BODY - application/json

```
{
  metric_name*      string    Name of metric which will be used to determine distribution by buckets.
  distribution_by*  string    Name of tag which comprises distributions.
  timestamp_unix*   integer   Timestamp at which metric_name's value will be distributed by according to distribution_by.
  buckets [{
  Array of object:

    bucket_name  string   Name of bucket.
    start_value  integer  Starting value of bucket.
    end_value    integer  Ending value of bucket.
  }]
  tags [{
  Array of object:

    key    string
    value  string
  }]
}
```

RESPONSE

RESPONSE MODEL - application/json

```
{
Count of time series distributed by buckets.

  distributions [{
  Array of object:

    bucket {
      bucket_name  string   Name of bucket.
      start_value  integer  Starting value of bucket.
      end_value    integer  Ending value of bucket.
    }
    distribution [{
    Array of object:

      key    string
      value  string
    }]
  }]
}
```

RESPONSE MODEL - application/json

```
{
  new_object_id  string    This represents the id of the new object created for the POST API call.
  id             string    This represents the key for the localized property file to be used by UI to show the localized string.
  message        string    Success or error message
  messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                           Message in the localized file.
  messages [{
  Array of object:

    id             string    This represents the key for the localized property file to be used by UI to show the localized string.
    message        string    Success or error message
    field_name     string    Field name where the error was seen
    messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                             Message in the localized file.
  }]
```

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:

    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:

    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

17. MULTI-TENANCY

APIs for Tenants and VxLAN segments, in a fabric intent.

17.1 GET /fabric-intents/{fabric-intent-id}/tenants

Details of all the tenants using the fabric.
This API will list all the tenants that are using the fabric managed by SFD.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

RESPONSE

STATUS CODE - 200: Response to get a list of all tenants using the fabric.

RESPONSE MODEL - application/json

```
{
```
List of all tenants using the fabric.
```
    data [{
```
Array of object: Represents a tenant using the fabric.

`id`	`string`	Unique identifier of the tenant
`fabric-intent-id`	`string`	Unique identifier of the fabric intent that defines the fabric configuration used by the tenant.
`l3-vni`	`integer`	L3 VNI of tenant
`irb_type`	`enum`	**ALLOWED:** SYMMETRIC, ASYMMETRIC
		The distributed routing type:SYMMETRIC/ASYMMETRIC.

```
        vm_manager {
```
The VM manager this Tenant is associated to.

`id`	`string`	Unique identified of the VM manager.
`name`	`string`	Name of the VM manager.

```
        }
```

`name*`	`string`	Name of the tenant
`description`	`string`	Optional description for the tenant.

```
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

`new_object_id`	`string`	This represents the id of the new object created for the POST API call.
`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`field_name`	`string`	Field name where the error was seen
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id              string       This represents the key for the localized property file to be used by UI to show the localized string.
      message         string       Success or error message
      field_name      string       Field name where the error was seen
      messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id              string       This represents the key for the localized property file to be used by UI to show the localized string.
      message         string       Success or error message
      field_name      string       Field name where the error was seen
      messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

   }]
}
```

17.2 POST /fabric-intents/{fabric-intent-id}/tenants

Add a Tenant.

This API creates a tenant object. Tenant defines a common access and privilege space for a client. So, this object represents a client who uses the fabric managed by SFD. The tenant will be created for a fabric intent. It can only be created when the intent is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

REQUEST BODY - application/json

```
{
```
Represents a tenant using the fabric.

```
    vm_manager_id   string      The VM manager this Tenant is associated to.
    irb-type        enum        ALLOWED:SYMMETRIC, ASYMMETRIC
                                The distributed routing type:SYMMETRIC/ASYMMETRIC.
    name*           string      Name of the tenant
    description     string      Optional description for the tenant.
}
```

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized
                                    string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                    the Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized
                                    string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                    the Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized
                                string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
```

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

17.3 GET /fabric-intents/{fabric-intent-id}/tenants/{id}

Gets details of a tenant by ID.

This API will get details of a tenant, identified by 'id', using a fabric-intent identified by 'fabric-intent-id'

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the tenant

RESPONSE

STATUS CODE - 200: Response to get details of a particular tenant by ID

RESPONSE MODEL - application/json

{
Represents a tenant using the fabric.

id	string	Unique identifier of the tenant
fabric-intent-id	string	Unique identifier of the fabric intent that defines the fabric configuration used by the tenant.
l3-vni	integer	L3 VNI of tenant
irb_type	enum	**ALLOWED:**SYMMETRIC, ASYMMETRIC
		The distributed routing type:SYMMETRIC/ASYMMETRIC.

vm_manager {
The VM manager this Tenant is associated to.

id	string	Unique identified of the VM manager.

```
        name   string   Name of the VM manager.
    }
    name*          string   Name of the tenant
    description    string   Optional description for the tenant.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
```

```
    }]
  }
```

17.4 PUT /fabric-intents/{fabric-intent-id}/tenants/{id}

Updates a tenant by ID.

This API will be used to update properties of an existing tenant. This can only be used if the fabric-intent on which the tenant is defined, is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the tenant.

REQUEST BODY - application/json
```
{
```
Represents a tenant using the fabric.

```
   vm_manager_id   string   The VM manager this Tenant is associated to.
   irb-type        enum     ALLOWED:SYMMETRIC, ASYMMETRIC
                            The distributed routing type:SYMMETRIC/ASYMMETRIC.
   name*           string   Name of the tenant
   description     string   Optional description for the tenant.
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json
```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json
```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
```

```
    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

17.5 DELETE /fabric-intents/{fabric-intent-id}/tenants/{id}

Deletes a tenant by ID.

This API will be used to delete a tenant identified by 'id', that is defined in a fabric intent identified by 'fabric-intent-id'. A tenant can be deleted only if the fabric intent is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*id	string	Unique identifier of the tenant.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
```

```
      messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

17.6 GET /fabric-intents/{fabric-intent-id}/tenants/{tenant-id}/vxlan-segments

Details of all the VxLAN Segments.

This API will be used to get all VxLAN segments defined for a tenant identified by 'tenant-id', in a fabric-intent identified by 'fabric-intent-id'

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*tenant-id	string	Unique identifier of the tenant

RESPONSE

RESPONSE MODEL - application/json

```
{
```
List of VxLAN segments.
```
   data [{
```
Array of object: Represents a VxLAN Segment for a tenant

`id`	string	Unique identifier of the VxLAN segment
`tenant-id`	string	Unique identifier of the tenant whom this segment belongs to.
`tenant_name`	string	Name of the tenant whom this segment belongs to.
`fabric-intent-id`	string	Unique identifier of the fabric intent that defines the fabric configuration used by the tenant.
`vni*`	integer	`between 1 and  16777215`
		the Virtual Network Identifier for the tenant.
`static_anycast_gateway_ip_address*`	string	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.
`vlan_type`	enum	**ALLOWED:**`MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER`
		Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

```
      switch_pairs* [{
```
Array of object: The switch pair that will be part of a VxLAN Segment stretch. switch_id_1 and switch_id_2 will be leaf switch ids which are in pair. The user will input one SVI IP for each leaf in the pair. The static anycast gateway IP will be common for every leaf-pair part of the VxLAN Segment, and hence it will not be a switch-pair property. It will be defined as a VxLAN Segment property.

`switch_id_1`	string	Unique identifier of switch-1 in the leaf pair.
`switch_1_name`	string	Name of switch-1 in the leaf pair.
`switch_id_2`	string	Unique identifier of switch-2 in the leaf pair.
`switch_2_name`	string	Name of switch-2 in the leaf pair.
`svi_ip_1*`	string	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for leaf switch-1 in CIDR notation
`svi_ip_2*`	string	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for leaf switch-2 in CIDR notation
`vtep_ip`	string	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		VTEP interface IP on leaf-rack in CIDR notation
`vlan_id*`	integer	`between 2 and  4094`

```
        }]
        description                                    string    An optional description for the VxLAN segment.
    }]
}
```

The vlan-id on each rack, which this segment stretches on to.

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id            string     This represents the key for the localized property file to be used by UI to show the localized string.
        message       string     Success or error message
        field_name    string     Field name where the error was seen
        messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id            string     This represents the key for the localized property file to be used by UI to show the localized string.
        message       string     Success or error message
        field_name    string     Field name where the error was seen
        messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id            string     This represents the key for the localized property file to be used by UI to show the localized string.
        message       string     Success or error message
        field_name    string     Field name where the error was seen
        messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    }]
```

```
        }
```

17.7 POST /fabric-intents/{fabric-intent-id}/tenants/{tenant-id}/vxlan-segments

Add a VxLAN segment for a Tenant

This API will be used to create a VxLAN Segment for a tenant. A VxLAN Segment defines a stretch across multiple leaf-pairs, where overlay L2 connectivity will be provided using VxLAN tunnelling, on a L3 fabric. Each VxLAN segment will be identified by a unique l2-vni, that will be used to send encapsulated packets between hosts in the same segment. An internally generated l3-vni will be used for communication across VxLAN segments. A VxLAN Segment can be created, only if the fabric-intent to which the tenant belongs, is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*tenant-id	string	Unique identifier of the tenant

REQUEST BODY - application/json

{

Represents a VxLAN Segment for a tenant

vni*	integer	between 1 and 16777215
		the Virtual Network Identifier for the tenant.
static_anycast_gateway_ip_address*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.
vlan_type	enum	ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER
		Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

switch_pairs* [{

Array of object: The switch pair that will be part of a VxLAN Segment stretch. switch_id_1 and switch_id_2 will be leaf switch ids which are in pair. The user will input one SVI IP for each leaf in the pair. The static anycast gateway IP will be common for every leaf-pair part of the VxLAN Segment, and hence it will not be a switch-pair property. It will be defined as a VxLAN Segment property.

switch_id_1	string	Unique identifier of switch-1 in the leaf pair.
switch_1_name	string	Name of switch-1 in the leaf pair.
switch_id_2	string	Unique identifier of switch-2 in the leaf pair.
switch_2_name	string	Name of switch-2 in the leaf pair.
svi_ip_1*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		SVI interface IP for leaf switch-1 in CIDR notation
svi_ip_2*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|

```
                              2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
                              SVI interface IP for leaf switch-2 in CIDR notation
   vtep_ip        string      PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|
                              2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
                              VTEP interface IP on leaf-rack in CIDR notation
   vlan_id*       integer     between 2 and  4094
                              The vlan-id on each rack, which this segment stretches on to.
  }]
  description                               string    An optional description for the VxLAN segment.
}
```

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized
                               string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string   This represents the key for the localized property file to be used by UI to show the localized
                               string.
      message         string   Success or error message
      field_name      string   Field name where the error was seen
      messageParams   [string] Params array to substitute in the message. This will be used by UI to substitue the params in
                               the Message in the localized file.
   }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized
                               string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string   This represents the key for the localized property file to be used by UI to show the localized
                               string.
      message         string   Success or error message
      field_name      string   Field name where the error was seen
      messageParams   [string] Params array to substitute in the message. This will be used by UI to substitue the params in
                               the Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized
```

message	string	Success or error message

messageParams [string] Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen

messageParams [string] Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message

messageParams [string] Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen

messageParams [string] Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

17.8 GET /fabric-intents/{fabric-intent-id}/vxlan-segments

Details of all the VxLAN Segments.

This API will be used to get all VxLAN segments identified by 'fabric-intent-id'

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
tenant-id	string	Unique identifier of the tenant

RESPONSE

STATUS CODE - 200: Response to get a list of VxLAN Segments.

RESPONSE MODEL - application/json

{
List of VxLAN segments.

```
data [{
```
Array of object: Represents a VxLAN Segment for a tenant

id	string	Unique identifier of the VxLAN segment
tenant-id	string	Unique identifier of the tenant whom this segment belongs to.
tenant_name	string	Name of the tenant whom this segment belongs to.
fabric-intent-id	string	Unique identifier of the fabric intent that defines the fabric configuration used by the tenant.
vni*	integer	between 1 and 16777215

the Virtual Network Identifier for the tenant.

static_anycast_gateway_ip_address*   string   PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.

vlan_type   enum   ALLOWED:`MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER`

Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

```
    switch_pairs* [{
```
Array of object: The switch pair that will be part of a VxLAN Segment stretch. switch_id_1 and switch_id_2 will be leaf switch ids which are in pair. The user will input one SVI IP for each leaf in the pair. The static anycast gateway IP will be common for every leaf-pair part of the VxLAN Segment, and hence it will not be a switch-pair property. It will be defined as a VxLAN Segment property.

switch_id_1	string	Unique identifier of switch-1 in the leaf pair.
switch_1_name	string	Name of switch-1 in the leaf pair.
switch_id_2	string	Unique identifier of switch-2 in the leaf pair.
switch_2_name	string	Name of switch-2 in the leaf pair.

svi_ip_1*   string   PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

SVI interface IP for leaf switch-1 in CIDR notation

svi_ip_2*   string   PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

SVI interface IP for leaf switch-2 in CIDR notation

vtep_ip   string   PATTERN:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`

VTEP interface IP on leaf-rack in CIDR notation

vlan_id*   integer   between 2 and 4094

The vlan-id on each rack, which this segment stretches on to.

```
    }]
    description                                 string    An optional description for the VxLAN segment.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string        This represents the id of the new object created for the POST API call.
   id               string        This represents the key for the localized property file to be used by UI to show the localized string.
   message          string        Success or error message
   messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   messages [{
   Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

   }]
}
```

17.9 GET /fabric-intents/{fabric-intent-id}/tenants/{tenant-id}/vxlan-segments/{id}

Gets details of a VxLAN Segment by ID.

This API will be used to get a specific VxLAN segment defined for a tenant identified by 'tenant-id', in a fabric-intent identified by 'fabric-intent-id'

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*tenant-id	string	Unique identifier of the tenant
*id	string	Unique identifier of the VxLAN Segment

RESPONSE

STATUS CODE - 200: Response to get details of a particular VxLAN Segment by ID

RESPONSE MODEL - application/json

{
Represents a VxLAN Segment for a tenant

id	string	Unique identifier of the VxLAN segment
tenant-id	string	Unique identifier of the tenant whom this segment belongs to.
tenant_name	string	Name of the tenant whom this segment belongs to.
fabric-intent-id	string	Unique identifier of the fabric intent that defines the fabric configuration used by the tenant.
vni*	integer	between 1 and 16777215
		the Virtual Network Identifier for the tenant.
static_anycast_gateway_ip_address*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.
vlan_type	enum	ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER
		Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

switch_pairs* [{
Array of object: The switch pair that will be part of a VxLAN Segment stretch. switch_id_1 and switch_id_2 will be leaf switch ids which are in pair. The user will input one SVI IP for each leaf in the pair. The static anycast gateway IP will be common for every leaf-pair part of the VxLAN Segment, and hence it will not be a switch-pair property. It will be defined as a VxLAN Segment property.

switch_id_1	string	Unique identifier of switch-1 in the leaf pair.
switch_1_name	string	Name of switch-1 in the leaf pair.
switch_id_2	string	Unique identifier of switch-2 in the leaf pair.
switch_2_name	string	Name of switch-2 in the leaf pair.
svi_ip_1*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}

```
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                              [0-9]|3[0-2]))
```
SVI interface IP for leaf switch-1 in CIDR notation

     `svi_ip_2*`   `string` **PATTERN**:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}`
```
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                              [0-9]|3[0-2]))
```
SVI interface IP for leaf switch-2 in CIDR notation

     `vtep_ip`   `string` **PATTERN**:`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}`
```
                              (25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2]
                              [0-9]|3[0-2]))
```
VTEP interface IP on leaf-rack in CIDR notation

     `vlan_id*`   `integer` `between 2 and  4094`

The vlan-id on each rack, which this segment stretches on to.
```
  }]
```
    `description`   `string`   An optional description for the VxLAN segment.
```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```
  `new_object_id` `string`   This represents the id of the new object created for the POST API call.
  `id`   `string`   This represents the key for the localized property file to be used by UI to show the localized string.
  `message`   `string`   Success or error message
  `messageParams` `[string]` Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  `messages [{`
Array of object:

    `id`   `string`   This represents the key for the localized property file to be used by UI to show the localized string.
    `message`   `string`   Success or error message
    `field_name`   `string`   Field name where the error was seen
    `messageParams` `[string]` Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
```
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```
  `new_object_id` `string`   This represents the id of the new object created for the POST API call.
  `id`   `string`   This represents the key for the localized property file to be used by UI to show the localized string.
  `message`   `string`   Success or error message
  `messageParams` `[string]` Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

  `messages [{`
Array of object:

    `id`   `string`   This represents the key for the localized property file to be used by UI to show the localized string.
    `message`   `string`   Success or error message
    `field_name`   `string`   Field name where the error was seen
    `messageParams` `[string]` Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.
```
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```
  `new_object_id` `string`   This represents the id of the new object created for the POST API call.

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

    }]
}

17.10 PUT /fabric-intents/{fabric-intent-id}/tenants/{tenant-id}/vxlan-segments/{id}

Updates a VxLAN Segment by ID.

This API will be used to update the properties of a VxLAN segment identified by 'id'. This is only allowed if the fabric-intent on which the segment's tenant is defined, is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*tenant-id	string	Unique identifier of the tenant
*id	string	Unique identifier of the VxLAN segment.

REQUEST BODY - application/json

{
Represents a VxLAN Segment for a tenant

vni*	integer	between 1 and 16777215
		the Virtual Network Identifier for the tenant.
static_anycast_gateway_ip_address*	string	PATTERN:((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))
		The static anycast gateway ip for a stretched host network. This will be configured on all leafs where this network stretches.
vlan_type	enum	ALLOWED:MANAGEMENT_VLAN, VMOTION_VLAN, STORAGE_VLAN, TRANSPORT_VLAN, WORKLOAD_VLAN, OTHER
		Type of the Vlan 1. MANAGEMENT_VLAN - Management Vlan allows to communicate remotely with a switch. Management Vlan must be provided for all the switches in SFD. This is mandatory param for NSX and currently optional for Vcenter. 2. VMOTION_VLAN - VMOTION is used to migrate live VM traffic from one physical server to another. It transfers unencrypted memory content of your live VMs over the network, so an isolated VLAN/subnet for vMotion is created for all the switches. Its mandatory to provide Vmotion vlan for all switches for NSX usecase. 3. STORAGE_VLAN - VSAN (Storage) provides distributed storage. VSAN (Storage) Vlan isolates the storage traffic. Its mandatory to provide storage Vlan for all switches for NSX usecase. 4. TRANSPORT_VLAN - Transport(TEP) Vlan is for sending the VM traffic from one node to another node. Its mandatory to provide Transport Vlan for all switches for NSX usecase. 5. WORKLOAD_VLAN - Workload Vlan is for sending VM traffic for the Vcenter usecase. 6. OTHER - This is optional Vlan added by the user for Miscellaneous configurations.

switch_pairs* [{
Array of object: The switch pair that will be part of a VxLAN Segment stretch. switch_id_1 and switch_id_2 will be leaf switch ids which are in pair.

The user will input one SVI IP for each leaf in the pair. The static anycast gateway IP will be common for every leaf-pair part of the VxLAN Segment, and hence it will not be a switch-pair property. It will be defined as a VxLAN Segment property.

`switch_id_1`	`string`	Unique identifier of switch-1 in the leaf pair.
`switch_1_name`	`string`	Name of switch-1 in the leaf pair.
`switch_id_2`	`string`	Unique identifier of switch-2 in the leaf pair.
`switch_2_name`	`string`	Name of switch-2 in the leaf pair.
`svi_ip_1*`	`string`	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for leaf switch-1 in CIDR notation
`svi_ip_2*`	`string`	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		SVI interface IP for leaf switch-2 in CIDR notation
`vtep_ip`	`string`	**PATTERN:**`((25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)\.){3}(25[0-5]|2[0-4][0-9]|[01]?[0-9][0-9]?)(\/([0-9]|[1-2][0-9]|3[0-2]))`
		VTEP interface IP on leaf-rack in CIDR notation
`vlan_id*`	`integer`	`between 2 and 4094`
		The vlan-id on each rack, which this segment stretches on to.

```
  }]
  description                                    string    An optional description for the VxLAN segment.
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized
                            string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
  messages [{
  Array of object:
    id              string    This represents the key for the localized property file to be used by UI to show the localized
                              string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in
                              the Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized
                            string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
  messages [{
  Array of object:
    id              string    This represents the key for the localized property file to be used by UI to show the localized
                              string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in
```

```
      }]
    }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

17.11 DELETE /fabric-intents/{fabric-intent-id}/tenants/{tenant-id}/vxlan-segments/{id}

Deletes a VxLAN Segment by ID.

This API will be used to delete a VxLAN segment identified by 'id'. This is only allowed if the fabric intent on which the segment's tenant is defined, is in DRAFT state.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*fabric-intent-id	string	Unique identifier of the fabric intent
*tenant-id	string	Unique identifier of the tenant
*id	string	Unique identifier of the VxLAN Segment.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

18. NFC ACTIVITIES

Activities in the NFC.

18.1 GET /activities

Retrieves the NFC Activities

NFC Activity is summary of operations happening in the NFC. This could be operator driven or any dynamic activity happening in the NFC. This API returns the NFC Activities.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
start-time	int64	Get all the NFC 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.
end-time	int64	Get all the NFC activities created before end timestamp(inclusive). The default value for end timestamp is set as current time. The timestamp value is defined in milliseconds since epoch.
activity-type	enum **ALLOWED:** FABRIC_CONFIG, LCM, BACKUP	Type of activity
activity-sub-type	enum **ALLOWED:** FABRIC_INTENT, DV_PORT_GROUP_ADD, DV_PORT_GROUP_REMOVE, HOST_LINK_ADD, HOST_LINK_REMOVE, LCM_IMAGE_UPDATE, CONFIG_REPLAY, CREATE_BACKUP	Sub-type of activity
status	enum **ALLOWED:** SUCCESS, IN_PROGRESS, PARTIAL_SUCCESS, FAILED	Status of activity
message	string	'Wildcard query on the message field. Supported wildcards are * and ?. Like : Ny* or Ne? .'

RESPONSE

STATUS CODE - 200: Activities response for the NFC

RESPONSE MODEL - application/json

{
List of Activity returned for GET API call

    data [{

    Array of object: Summary of Activity happening in the system. The detailed status can be retrieved by forming either of following urls: 1. /fabric-intents/{referenced_oid}/deployments/{deployment_oid} or 2. /lcm/update-jobs/{referenced_oid}/status 3. /backup/instances/{referenced_oid}

id	string	Unique identifier of the activity object
activity_type	enum	**ALLOWED:** UNAVAILABLE, FABRIC_CONFIG, LCM, BACKUP Type of activity
sub_type	enum	**ALLOWED:** UNAVAILABLE, FABRIC_INTENT, DV_PORT_GROUP_ADD, DV_PORT_GROUP_REMOVE,

```
                                            Sub - Type of activity
      start_time                 integer    Start time of the main job
      end_time                   integer    End time of the main job
      status                     enum       ALLOWED:UNAVAILABLE, SUCCESS, IN_PROGRESS,
                                            PARTIAL_SUCCESS, FAILED
                                            Status of the main job.
      referenced_id              string     Object identifier of the main Job Like  Active fabric intent oid or LCM job oid
      fabric_intent_deployment_id string    Deployment id of the fabric intent. This is populated if the type is fabric-
                                            config.
      name                       string     Name of the activity (Fabric intent name, image update job name, etc.)
      message                    string     Text message describing the activity.
   }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id  string      This represents the id of the new object created for the POST API call.
   id             string      This represents the key for the localized property file to be used by UI to show the localized string.
   message        string      Success or error message
   messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id  string      This represents the id of the new object created for the POST API call.
   id             string      This represents the key for the localized property file to be used by UI to show the localized string.
   message        string      Success or error message
   messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id  string      This represents the id of the new object created for the POST API call.
```

```
id                string      This represents the key for the localized property file to be used by UI to show the localized string.
message           string      Success or error message
messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
messages [{
Array of object:
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    field_name        string      Field name where the error was seen
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
}]
}
```

19. NOTIFICATION-SERVICE

Notification Service APIs

19.1 GET /notifications

Retrieve all the currently applied notification configurations.
This API returns all the currently applied notification configurations.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to a get all configurations request

RESPONSE MODEL - application/json

```
{
```
Notification configuration

```
  smtp {
```
SMTP configuration object

`smtp_host*`	`string`	SMTP Host
`port*`	`integer`	Port
`from_email_id*`	`string`	Email id from which notifications will be sent
`username`	`string`	Username of account
`password`	`string`	Password of account
`auth_required*`	`boolean`	Is authentication required?
`ssl_required*`	`boolean`	Is SSL required?

```
  }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

`new_object_id`	`string`	This represents the id of the new object created for the POST API call.
`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

`id`	`string`	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	`string`	Success or error message
`field_name`	`string`	Field name where the error was seen
`messageParams`	`[string]`	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - default: Response to a get all configurations request

RESPONSE MODEL - application/json

```
{
```
Notification configuration

```
  smtp {
```
SMTP configuration object

```
        smtp_host*      string      SMTP Host
        port*           integer     Port
        from_email_id*  string      Email id from which notifications will be sent
        username        string      Username of account
        password        string      Password of account
        auth_required*  boolean     Is authentication required?
        ssl_required*   boolean     Is SSL required?
    }
}
```

19.2 GET /notifications/smtp

Retrieve the applied SMTP configuration.

This API returns the currently applied SMTP configuration.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to a get SMTP configuration request

RESPONSE MODEL - application/json

```
{
SMTP configuration object

    smtp_host*      string      SMTP Host
    port*           integer     Port
    from_email_id*  string      Email id from which notifications will be sent
    username        string      Username of account
    password        string      Password of account
    auth_required*  boolean     Is authentication required?
    ssl_required*   boolean     Is SSL required?
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string          This represents the id of the new object created for the POST API call.
    id              string          This represents the key for the localized property file to be used by UI to show the localized string.
    message         string          Success or error message
    messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    messages [{
    Array of object:

        id              string          This represents the key for the localized property file to be used by UI to show the localized string.
        message         string          Success or error message
        field_name      string          Field name where the error was seen
        messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
                                    This represents the id of the new object created for the POST API call.
```

```
    new_object_id      string
    id                 string        This represents the key for the localized property file to be used by UI to show the localized string.
    message            string        Success or error message
    messageParams      [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    messages [{
    Array of object:

       id                 string        This represents the key for the localized property file to be used by UI to show the localized string.
       message            string        Success or error message
       field_name         string        Field name where the error was seen
       messageParams      [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.

    }]
}
```

STATUS CODE - default: Response to a get SMTP configuration request

RESPONSE MODEL - application/json

```
{
SMTP configuration object

    smtp_host*       string     SMTP Host
    port*            integer    Port
    from_email_id*   string     Email id from which notifications will be sent
    username         string     Username of account
    password         string     Password of account
    auth_required*   boolean    Is authentication required?
    ssl_required*    boolean    Is SSL required?
}
```

19.3 PUT /notifications/smtp

Apply the specified SMTP configuration.

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

REQUEST

REQUEST BODY - application/json

```
{
SMTP configuration object

    smtp_host*       string     SMTP Host
    port*            integer    Port
    from_email_id*   string     Email id from which notifications will be sent
    username         string     Username of account
    password         string     Password of account
    auth_required*   boolean    Is authentication required?
    ssl_required*    boolean    Is SSL required?
}
```

RESPONSE

STATUS CODE - 200: Response to a notification request

RESPONSE MODEL - application/json

```
{
Notification Request Status object

    status           enum       ALLOWED:SUCCESS, FAILURE
                                Status of the request
```

```
    error_message  string    Error message (in case of failure)
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id  string        This represents the id of the new object created for the POST API call.
    id             string        This represents the key for the localized property file to be used by UI to show the localized string.
    message        string        Success or error message
    messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id                string    This represents the key for the localized property file to be used by UI to show the localized string.
        message           string    Success or error message
        field_name        string    Field name where the error was seen
        messageParams     [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id  string        This represents the id of the new object created for the POST API call.
    id             string        This represents the key for the localized property file to be used by UI to show the localized string.
    message        string        Success or error message
    messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id                string    This represents the key for the localized property file to be used by UI to show the localized string.
        message           string    Success or error message
        field_name        string    Field name where the error was seen
        messageParams     [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: Response to a notification request

RESPONSE MODEL - application/json

```
{
Notification Request Status object
    status            enum      ALLOWED:SUCCESS, FAILURE
                                Status of the request
    error_message  string    Error message (in case of failure)
}
```

19.4 DELETE /notifications/smtp

Delete the applied SMTP configuration.
Deletes the currently applied SMTP configuration.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to a notification request

RESPONSE MODEL - application/json

```
{
```
Notification Request Status object

status	enum	**ALLOWED:**SUCCESS, FAILURE
		Status of the request
error_message	string	Error message (in case of failure)

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - default: Response to a notification request

RESPONSE MODEL - application/json

```
{
```
Notification Request Status object

status	enum	**ALLOWED:**SUCCESS, FAILURE
		Status of the request
error_message	string	Error message (in case of failure)

```
}
```

19.5 POST /notifications/smtp/test

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

REQUEST

REQUEST BODY - application/json
```
{
```
Test email configuration object

recipients*	string	Recipients of the test email
smtp_host*	string	SMTP Host
port*	integer	Port
from_email_id*	string	Email id from which test email will be sent
username	string	Username of account
password	string	Password of account
auth_required*	boolean	Is authentication required?
ssl_required*	boolean	Is SSL required?

```
}
```

RESPONSE

STATUS CODE - 200: Response to a notification request

RESPONSE MODEL - application/json
```
{
```
Notification Request Status object

status	enum	**ALLOWED:** SUCCESS, FAILURE Status of the request
error_message	string	Error message (in case of failure)

```
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json
```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json
```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
}]
}
```

STATUS CODE - default: Response to a notification request

RESPONSE MODEL - application/json

```
{
```
Notification Request Status object

status	enum	**ALLOWED:** SUCCESS, FAILURE
		Status of the request
error_message	string	Error message (in case of failure)

```
}
```

20. SWITCH INFORMATION

20.1 GET /switches/summary

get summary of all switch

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: list of switch summary

RESPONSE MODEL - application/json

{
This object represent the list of switch summary.

    `data [{`
    Array of object: switch summary

`id`	string	Unique identifier of the switch object
`name`	string	name of the switch
`service_tag`	string	service tag of switch
`model`	string	model of the switch
`os_version`	string	os version of the switch

      `status {`
      "Describes the state of switch in the topology. If the switch is discovered, reachable etc"

        `switch_state` enum **ALLOWED:**DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE, ERROR, UNMANAGED, REBOOT_IN_PROGRESS

        The current state of the switch. The switch is Manintenance state if any LCM job is being performed on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth failure, config errors etc.

        `error_detail` enum **ALLOWED:**NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR, NOT_OPERATIONAL

        If the switch state is in error then this enum tells the reason for that error.

      `}`

      `role`   enum   **ALLOWED:**LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD

      The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF

    `}]`
}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

{

`new_object_id`	string	This represents the id of the new object created for the POST API call.
`id`	string	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	string	Success or error message
`messageParams`	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

    `messages [{`
    Array of object:

`id`	string	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	string	Success or error message
`field_name`	string	Field name where the error was seen
`messageParams`	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the

```
      }]
   }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   }]
}
```

20.2 GET /switches/detail

Get detail information of all the switches
Get detail information of all the switches including supported os versions , switch groups etc.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: list of switch summary

RESPONSE MODEL - application/json

```
{
```
This object represent the list of switch detail information.

```
   data [{
   Array of object:  Switch detail information
```

```
        id                              string              Unique identifier of the switch object
        name                            string              name of the switch
        service_tag                     string              service tag of switch
        model                           string              model of the switch
        os_version                      string              os version of the switch
        status {
        "Describes the state of switch in the topology. If the switch is discovered, reachable etc"

            switch_state  enum  ALLOWED:DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE,
                                ERROR, UNMANAGED, REBOOT_IN_PROGRESS
                                The current state of the switch. The switch is Manintenance state if any LCM job is being performed
                                on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on
                                SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable,
                                auth failure, config errors etc.
            error_detail  enum  ALLOWED:NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR,
                                NOT_OPERATIONAL
                                If the switch state is in error then this enum tells the reason for that error.

        }
        role                            enum                ALLOWED:LEAF, SPINE,
                                                            EDGE_LEAF, EDGE_CLOUD
                                                            The Role for a switch, if its a LEAF, SPINE, or an
                                                            EDGE_LEAF

        latest_os_version               string              Latest available OS version
        supported_versions              [string]
        switch_groups [{
        Array of object:  Switch group name and Id.

            switch_group_oid   string
            switch_group_name  string
        }]
      }]
    }
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
    messages [{
    Array of object:

        id             string      This represents the key for the localized property file to be used by UI to show the localized string.
        message        string      Success or error message
        field_name     string      Field name where the error was seen
        messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id  string      This represents the id of the new object created for the POST API call.
    id             string      This represents the key for the localized property file to be used by UI to show the localized string.
    message        string      Success or error message
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
    messages [{
    Array of object:
```

```
        id           string        This represents the key for the localized property file to be used by UI to show the localized string.
        message      string        Success or error message
        field_name   string        Field name where the error was seen
        messageParams [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      }]
    }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id           string        This represents the key for the localized property file to be used by UI to show the localized string.
        message      string        Success or error message
        field_name   string        Field name where the error was seen
        messageParams [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
      }]
    }
```

20.3 GET /switches/{switch-id}/interfaces/{interface-id}/members

Get member interface of port channel.

Get member interfaces of a port channel interface. This API return the current members.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.
*interface-id	string	Unique identifier of the interface.

RESPONSE

STATUS CODE - 200: port channel information of a switch.

RESPONSE MODEL - application/json

```
{
port channel information
    id                    string   port channel id
    name                  string   port channel name
    role                  enum     ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK,
                                   LOOPBACK, UNDEFINED, NOT_APPLICABLE
                                   Describes the type of connection from one interface to another.
    type                  enum     ALLOWED:ETHERNET, LOOPBACK, ROUTED_VLAN, AGGREGATION,
                                   UNDEFINED
                                   Describes the type of interface
    operational_status    enum     ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                   state of interface.
```

```
        admin_status            enum      ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                          state of interface.
    members [{
    Array of object:  The information about an Ethernet interface.

        id                string   The object id of the interface.
        name              string   the name of the interface.
        switch_id         string   Oid of the switch, on which the interface resides.
        switch_name       string   Name of the switch, on which the interface resides.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id                string      This represents the key for the localized property file to be used by UI to show the localized string.
        message           string      Success or error message
        field_name        string      Field name where the error was seen
        messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:
```

```
        id                string        This represents the key for the localized property file to be used by UI to show the localized string.
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
    }]
  }
```

20.4 GET /switches/{switch-id}/interfaces/{interface-id}/bfd

Get bfd information of port channel.

Get bfd information of a port channel interface for the given timestamp Timestamp is optional. If it not specified then it returns information of current timestamp.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.
*interface-id	string	Unique identifier of the interface.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
timestamp	int64	Timestamp at which interface information to be retrieved.

RESPONSE

STATUS CODE - 200: port channel information of a switch.

RESPONSE MODEL - application/json

```
{
bfd information
    session_state                 enum      ALLOWED:BFD_UNSET, INIT, DOWN, ADMIN_DOWN, UP
                                            bfd session state.
    desired_minimum_tx_interval   integer   The minimum interval between transmission of BFD control packets that the
                                            operator desires. This value is advertised to the peer, however the actual interval
                                            used is specified by taking the maximum of desired-minimum-tx-interval and the
                                            value of the remote required-minimum-receive interval value. It is in micro sec.
    required_minimum_receive      integer   The minimum interval between received BFD control packets that this system
                                            should support. This value is advertised to the remote peer to indicate the
                                            maximum frequency (i.e., minimum inter-packet interval) between BFD control
                                            packets that is acceptable to the local system.
    detection_multiplier          integer   The number of packets that must be missed to declare this session as down.
                                            The detection interval for the BFD session is calculated by multiplying the value
                                            of the negotiated transmission interval by this value.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id     string        This represents the id of the new object created for the POST API call.
    id                string        This represents the key for the localized property file to be used by UI to show the localized string.
    message           string        Success or error message
    messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
```

```
   messages [{
   Array of object:
       id              string          This represents the key for the localized property file to be used by UI to show the localized string.
       message         string          Success or error message
       field_name      string          Field name where the error was seen
       messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
   }]
 }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string          This represents the id of the new object created for the POST API call.
   id              string          This represents the key for the localized property file to be used by UI to show the localized string.
   message         string          Success or error message
   messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   messages [{
   Array of object:
       id              string          This represents the key for the localized property file to be used by UI to show the localized string.
       message         string          Success or error message
       field_name      string          Field name where the error was seen
       messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
   }]
 }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string          This represents the id of the new object created for the POST API call.
   id              string          This represents the key for the localized property file to be used by UI to show the localized string.
   message         string          Success or error message
   messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
   messages [{
   Array of object:
       id              string          This represents the key for the localized property file to be used by UI to show the localized string.
       message         string          Success or error message
       field_name      string          Field name where the error was seen
       messageParams   [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
   }]
 }
```

20.5 GET /switches/{switch-id}/interfaces/{interface-id}

Get information about an interface.

Get interface information of a particular switch..

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	switch oid

NAME	TYPE	DESCRIPTION
*interface-id	string	Unique identifier of the interface.

RESPONSE

STATUS CODE - 200: interface information response.

RESPONSE MODEL - application/json

```
{
Interface information
    interface_id              string    interface id
    name                      string    interface name
    role                      enum      ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK,
                                        INTERLINK, LOOPBACK, UNDEFINED, NOT_APPLICABLE
                                        Describes the type of connection from one interface to another.
    interface_type            enum      ALLOWED:ETHERNET, LOOPBACK, ROUTED_VLAN, AGGREGATION,
                                        UNDEFINED
                                        Describes the type of interface
    operational_status        enum      ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                        state of interface.
    admin_status              enum      ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                        state of interface.
    health                    number    Interface health derived metric. The value is in percentage.
    port_speed                integer   Maximum speed supported by interface. Port speed is in Mbps.
    member_of_portchannel     string    If interface type is ethernet then get port channel name  which it is part of.
    bfd_state                 enum      ALLOWED:BFD_UNSET, INIT, DOWN, ADMIN_DOWN, UP
                                        bfd session state.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
```

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
        }]
    }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
        }]
    }
```

20.6 GET /switches/{switch-id}/interfaces

Get all interface information of a switch.

Get interface information of a switch for the given timestamp. Interface can be type of ethernet or aggregate. Timestamp is optional. If it not specified then it returns information of current timestamp.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
timestamp	int64	Timestamp at which interface information to be retrieved.

RESPONSE

STATUS CODE - 200: interfaces information of a switch.

RESPONSE MODEL - application/json

```
{
```
This object represent the list of interface.

```
    data [{
```
Array of object: Interface information

interface_id	string	interface id

```
      name                       string    interface name
      role                       enum      ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK,
                                           INTERLINK, LOOPBACK, UNDEFINED, NOT_APPLICABLE
                                           Describes the type of connection from one interface to another.
      interface_type             enum      ALLOWED:ETHERNET, LOOPBACK, ROUTED_VLAN,
                                           AGGREGATION, UNDEFINED
                                           Describes the type of interface
      operational_status         enum      ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                           state of interface.
      admin_status               enum      ALLOWED:UP, DOWN, PENDING, UNDEFINED
                                           state of interface.
      health                     number    Interface health derived metric. The value is in percentage.
      port_speed                 integer   Maximum speed supported by interface. Port speed is in Mbps.
      member_of_portchannel      string    If interface type is ethernet then get port channel name  which it is part of.
      bfd_state                  enum      ALLOWED:BFD_UNSET, INIT, DOWN, ADMIN_DOWN, UP
                                           bfd session state.
   }]
 }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
      message         string    Success or error message
      field_name      string    Field name where the error was seen
      messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   }]
 }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:
      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
      message         string    Success or error message
      field_name      string    Field name where the error was seen
      messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   }]
 }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id            string      This represents the key for the localized property file to be used by UI to show the localized string.
    message       string      Success or error message
    field_name    string      Field name where the error was seen
    messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  }]
}
```

20.7 GET /switches/{switch-id}

get common switch properties.

get switch properties at the current time stamp.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.

RESPONSE

STATUS CODE - 200: switch profile response.

RESPONSE MODEL - application/json

```
{
properties of switch at current time stamp

  id                              string           Unique identifier of the switch object
  name                            string           name of the switch
  status {
  "Describes the state of switch in the topology. If the switch is discovered, reachable etc"

    switch_state  enum  ALLOWED:DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE,
                             ERROR, UNMANAGED, REBOOT_IN_PROGRESS
                        The current state of the switch. The switch is Manintenance state if any LCM job is being performed on
                        this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD
                        manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth
                        failure, config errors etc.
    error_detail  enum  ALLOWED:NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR,
                             NOT_OPERATIONAL
                        If the switch state is in error then this enum tells the reason for that error.

  }
  health                          number           switch health in percentage.
  role                            enum             ALLOWED:SPINE, LEAF, EDGE_LEAF
                                                   role of switch based on position in topology .
  model_number                    string           model number of the switch
  service_tag                     string           service tag of the switch
  management_ip                   string           management ip address of the switch
  os_version                      string           OS version of the switch
  up_time                         integer          time since swich is up.
```

streaming_status	enum	**ALLOWED:**UNKNOWN, CONNECTED, DISCONNECTED, CLOSED
		telmetry connection status of switch
interface_count	integer	number of interface in UP state.
bgp_peers_count	integer	number of BGP neighbor in CONNECTED state.
cpu_utilization	number	cpu utilization of the switch in percentage.
memory_utilization	number	memory utilization of the switch in percentage.
host_count	integer	number of connected host to the switch.
vtep_ip	string	The loopback interface IP address, acting as the VTEP IP for the switch
vni_count	integer	number of VNI's in the switch.

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

20.8 GET /switches/{switch-id}/bgp-neighbors

Get bgp neighbors of a switch .

Get BGP neighbor Information of a switch in given time stamp.Timestamp is optional. If it not specified then it returns information of current timestamp.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
timestamp	int64	on which time-stamp, we want bgp information

RESPONSE

STATUS CODE - 200: bgp neighbor list response.

RESPONSE MODEL - application/json

```
{
```
This object represent the list of switch summary.

```
  data [{
```
Array of object: BGP state and BGP neighbors of a switch.

bgp_neighbor_id	string	bgp neighbor id
neighbor_hostname	string	device name of BGP peer.
neighbor_address	string	Address of the BGP peer, either in IPv4 or IPv6
bfd_enabled	boolean	is bfd session state is enabled for bgp neighbor
bgp_neighbor_state	enum	**ALLOWED:**UNDEFINED, IDLE, CONNECT, ACTIVE, OPEN_SENT, OPEN_CONFIRM, ESTABLISHED BGP neighbor pperational state.
prefixes_received	integer	The number of prefixes that are received from the neighbor after applying any policies. This count is the number of prefixes present in the post-policy Adj-RIB-In for the neighbor
prefixes_sent	integer	The number of prefixes that are advertised to the neighbor after applying any policies. This count is the number of prefixes present in the post-policy Adj-RIB-Out for the neighbor
prefixes_installed	integer	The number of prefixes received from the neighbor that are installed in the network instance RIB and actively used for forwarding. Routes that are actively used for forwarding are defined to be those that: - are selected, after the application of policies, to be included in the Adj-RIB-In-Post, AND - are selected by best path selection and hence installed in the Loc-RIB (either as the only route, or as part of a multipath set, AND - are selected, after the application of protocol preferences (e.g., administrative distance) as the

```
                                         route to be used by the system's RIB
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id    string       This represents the id of the new object created for the POST API call.
  id               string       This represents the key for the localized property file to be used by UI to show the localized string.
  message          string       Success or error message
  messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  messages [{
  Array of object:

    id                string     This represents the key for the localized property file to be used by UI to show the localized string.
    message           string     Success or error message
    field_name        string     Field name where the error was seen
    messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id    string       This represents the id of the new object created for the POST API call.
  id               string       This represents the key for the localized property file to be used by UI to show the localized string.
  message          string       Success or error message
  messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  messages [{
  Array of object:

    id                string     This represents the key for the localized property file to be used by UI to show the localized string.
    message           string     Success or error message
    field_name        string     Field name where the error was seen
    messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id    string       This represents the id of the new object created for the POST API call.
  id               string       This represents the key for the localized property file to be used by UI to show the localized string.
  message          string       Success or error message
  messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  messages [{
  Array of object:

    id                string     This represents the key for the localized property file to be used by UI to show the localized string.
    message           string     Success or error message
    field_name        string     Field name where the error was seen
    messageParams     [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

21. SWITCH MANIFEST

External Manifest file APIs

21.1 PUT /switch-manifest/

Uploads the external manifest file.

Switch Manifest file has the list of supported models and software versions for a SFD version. This api uploads the external switch Manifest file. This will override the current one in SFD. There is going to be only one switch manifest file in the SFD. In response an object id will be returned which can be used to apply this manifest file.

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
manifestFile	string(binary)	The switch manifest file to be uploaded.

RESPONSE

STATUS CODE - 200: response to the switch manifest file upload

RESPONSE MODEL - application/json

```
{
    unsupported_switches [{
    Array of object:  switch summary
```

`id`	string	Unique identifier of the switch object
`name`	string	name of the switch
`service_tag`	string	service tag of switch
`model`	string	model of the switch
`os_version`	string	os version of the switch

```
    status {
    "Describes the state of switch in the topology. If the switch is discovered, reachable etc"
```

`switch_state`	enum	**ALLOWED:**DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE, ERROR, UNMANAGED, REBOOT_IN_PROGRESS
		The current state of the switch. The switch is Manintenance state if any LCM job is being performed on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth failure, config errors etc.
`error_detail`	enum	**ALLOWED:**NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR, NOT_OPERATIONAL
		If the switch state is in error then this enum tells the reason for that error.

```
    }
```

`role`	enum	**ALLOWED:**LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
		The Role for a switch, if its a LEAF, SPINE, or an EDGE_LEAF

```
    }]
```

`new_object_id`	string	This represents the id of the new object created for the POST API call.
`id`	string	This represents the key for the localized property file to be used by UI to show the localized string.
`message`	string	Success or error message
`messageParams`	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
    Array of object:
```

```
      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - 400: Invalid request - uploaded file is not valid

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
      messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

      id              string        This represents the key for the localized property file to be used by UI to show the localized string.
      message         string        Success or error message
      field_name      string        Field name where the error was seen
```

messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                           Message in the localized file.
        }]
    }

21.2 GET /switch-manifest/support-matrix

Get the supported switch matrix

This API returns the supported switch model, os-version and os-type etc.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: response to the switch support matrix

RESPONSE MODEL - application/json

{
List of supported switches with model, os version and os type.

    data [{
    Array of object: Supported switch matrix

        platform   string   The os type on this model.
        model   string   model of the switch
        version_info [{
        Array of object: The switch version and image file for that version

            version   string   The image version of the switch
            filename   string   The image name for this version
        }]
        latest_os_version   string   Latest os version among the list of commonly supported os versions for a switch model
    }]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{
    new_object_id   string   This represents the id of the new object created for the POST API call.
    id   string   This represents the key for the localized property file to be used by UI to show the localized string.
    message   string   Success or error message
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id   string   This represents the key for the localized property file to be used by UI to show the localized string.
        message   string   Success or error message
        field_name   string   Field name where the error was seen
        messageParams [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{
    new_object_id   string   This represents the id of the new object created for the POST API call.
    id   string   This represents the key for the localized property file to be used by UI to show the localized string.

| message | string | Success or error message |
| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

```
messages [{
Array of object:

   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   field_name      string      Field name where the error was seen
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

}]
}
```

21.3 POST /switch-manifest/{id}/apply

Apply the external manifest file.

The uploaded manifest file will not be used unless it is applied. The object Id returned after upload of switch manifest file should be used to apply the manfiest file.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of manifest-file

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   }]
}
```

STATUS CODE - 400: Invalid request - uploaded file is not valid

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:
```

```
      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
  {
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
    messages [{
    Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

22. SWITCH OPERATIONS

22.1 POST /switches/{switch-id}/reboot

reboot a switch

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	switch oid

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 202: Request accepted for processing.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

22.2 POST /switches/{switch-id}/interfaces/{interface-id}/admin-status

administrative status of an interface

Control the administrative status of an interface

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the switch.
*interface-id	string	Unique identifier of the interface.

REQUEST BODY - application/json

{

Administrative status of an interface.

    admin_status*   enum   **ALLOWED:**ADMIN_UP, ADMIN_DOWN
                                    administrative status of an interface.

}

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

{
   new_object_id   string   This represents the id of the new object created for the POST API call.
   id   string   This represents the key for the localized property file to be used by UI to show the localized string.
   message   string   Success or error message
   messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

   messages [{
   Array of object:

      id   string   This represents the key for the localized property file to be used by UI to show the localized string.
      message   string   Success or error message
      field_name   string   Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

   }]
}

STATUS CODE - 202: Request accepted for processing.

RESPONSE MODEL - application/json

{
   new_object_id   string   This represents the id of the new object created for the POST API call.
   id   string   This represents the key for the localized property file to be used by UI to show the localized string.
   message   string   Success or error message
   messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

   messages [{
   Array of object:

      id   string   This represents the key for the localized property file to be used by UI to show the localized string.
      message   string   Success or error message
      field_name   string   Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

   }]
}

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

23. SWITCH-GROUP

Switch Group is a logical collection of the switches.

23.1 GET /switch-groups

API to get all switch groups

This api will return all the switch groups present in the system

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Resposne to get all switch-group

RESPONSE MODEL - application/json

```
{
```
This object represent the list of switch groups info
```
    data [{
```
Array of object:
```
        id                      string              unique ID of this switch-group
        name                    string              name of this switch group
        description             string              description of the switch group
        switch_members [{
```
Array of object: Member of a switch group.
```
            switch_oid   string
            switch_name  string
            role         enum      ALLOWED:NOT_SET, LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
```
                                   If the switch is a spine, leaf or edge-leaf.
```
        }]
        user_info {
```
This object describes the user information with respect to object like who created or updated the object
```
            created_by        string    Name of the user who created the object.
            created_at        integer   creation date of this object
            last_updated_by   string    Name of the user who last updated this object
            last_updated_at   integer   last update date of this object
        }
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
```
Array of object:
```
        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

Message in the localized file.

    }]
  }

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

       id              string      This represents the key for the localized property file to be used by UI to show the localized string.
       message         string      Success or error message
       field_name      string      Field name where the error was seen
       messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

       id              string      This represents the key for the localized property file to be used by UI to show the localized string.
       message         string      Success or error message
       field_name      string      Field name where the error was seen
       messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
  }
```

23.2 POST /switch-groups

API to create a new switch group

REQUEST

REQUEST BODY - application/json

```
{
    Name and description ref object

    switch_members   [string]    List of switch oids which will be part of this switch group
    name*            string      PATTERN:^(?!\s*$).+
                                 Name of the object
    description      string      description of the object
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id             string       This represents the key for the localized property file to be used by UI to show the localized string.
      message        string       Success or error message
      field_name     string       Field name where the error was seen
      messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id             string       This represents the key for the localized property file to be used by UI to show the localized string.
      message        string       Success or error message
      field_name     string       Field name where the error was seen
      messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string       This represents the id of the new object created for the POST API call.
   id               string       This represents the key for the localized property file to be used by UI to show the localized string.
   message          string       Success or error message
   messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   messages [{
   Array of object:

      id             string       This represents the key for the localized property file to be used by UI to show the localized string.
      message        string       Success or error message
      field_name     string       Field name where the error was seen
      messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

23.3 GET /switch-groups/{id}

API to get a switch group represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch group

RESPONSE

STATUS CODE - 200: Resposne to get switch-group by ID

RESPONSE MODEL - application/json

```
{
    id                    string              unique ID of this switch-group
    name                  string              name of this switch group
    description           string              description of the switch group
    switch_members [{
    Array of object:  Member of a switch group.

        switch_oid   string
        switch_name  string
        role         enum     ALLOWED:NOT_SET, LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
                              If the switch is a spine, leaf or edge-leaf.
    }]
    user_info {
    This object describes the user information with respect to object like who created or updated the object

        created_by       string    Name of the user who created the object.
        created_at       integer   creation date of this object
        last_updated_by  string    Name of the user who last updated this object
        last_updated_at  integer   last update date of this object
    }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string    This represents the id of the new object created for the POST API call.
    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

    messages [{
    Array of object:

        id              string    This represents the key for the localized property file to be used by UI to show the localized string.
        message         string    Success or error message
        field_name      string    Field name where the error was seen
        messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string    This represents the id of the new object created for the POST API call.
```

```
    id                string      This represents the key for the localized property file to be used by UI to show the localized string.
    message           string      Success or error message
    messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    }]
  }
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
  {
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams     [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    }]
  }
```

23.4 PUT /switch-groups/{id}

API to update a switch group represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch group

REQUEST BODY - application/json
```
{
Name and description ref object

  switch_members   [string]    List of switch oids which will be part of this switch group
  name*            string      PATTERN:^(?!\s*$).+
                               Name of the object
  description      string      description of the object
}
```

RESPONSE

STATUS CODE - **200:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
```

| message | string | Success or error message |
| messageParams | [string] | Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file. |

```
messages [{
Array of object:

    id              string     This represents the key for the localized property file to be used by UI to show the localized string.
    message         string     Success or error message
    field_name      string     Field name where the error was seen
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
}]
}
```

23.5 DELETE /switch-groups/{id}

API to delete a switch group

Deletes a switch group represented by the requested 'id'.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch group

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string     This represents the id of the new object created for the POST API call.
    id              string     This represents the key for the localized property file to be used by UI to show the localized string.
    message         string     Success or error message
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

    messages [{
    Array of object:

        id              string     This represents the key for the localized property file to be used by UI to show the localized string.
        message         string     Success or error message
        field_name      string     Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string     This represents the id of the new object created for the POST API call.
    id              string     This represents the key for the localized property file to be used by UI to show the localized string.
    message         string     Success or error message
    messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

    messages [{
    Array of object:

        id              string     This represents the key for the localized property file to be used by UI to show the localized string.
```

```
            message          string      Success or error message
            field_name       string      Field name where the error was seen
            messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                         Message in the localized file.
        }]
    }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string      This represents the id of the new object created for the POST API call.
    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:
        id               string      This represents the key for the localized property file to be used by UI to show the localized string.
        message          string      Success or error message
        field_name       string      Field name where the error was seen
        messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

23.6 GET /switch-groups/{id}/support-matrix

Get the supported os version and fileinfo for this switch group.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the switch group

RESPONSE

STATUS CODE - 200: response to the switch support matrix

RESPONSE MODEL - application/json

```
{
```
Supported switch OS version and filename information. The image file details will be those that are common to all the switches in the group.

```
   version_info [{
```
Array of object: The switch version and image file for that version

```
      version    string   The image version of the switch
      filename   string   The image name for this version
   }]
   latest_os_version   string   Latest os version among the list of commonly supported os versions for switch group members
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
```
Array of object:

```
      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   messages [{
```
Array of object:

```
      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string        This represents the id of the new object created for the POST API call.
   id              string        This represents the key for the localized property file to be used by UI to show the localized string.
   message         string        Success or error message
   messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
```

```
messages [{
Array of object:

    id                 string      This represents the key for the localized property file to be used by UI to show the localized string.
    message            string      Success or error message
    field_name         string      Field name where the error was seen
    messageParams      [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

}]
}
```

id   string   This represents the key for the localized property file to be used by UI to show the localized string.
message   string   Success or error message
field_name   string   Field name where the error was seen
messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

24. SYSLOG

Syslog messages received by NFC from switches

24.1 GET /syslogs/messages

Get Syslog Messages between start and end timestamp
Get all syslog messages between start and end timestamp

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
oid	string	Object ID, if exists, acts as a filter
start-time	int64	Start timestamp in epoch ms. The default value for start timestamp is set as (end-time - 24 hours)
end-time	int64	End timestamp in epoch ms. The default value for end timestamp is set as current time.
max-messages	integer	Max Number of Messages to Retrieve. By default, all messages between start and end timestamps will be returned.
filter	string	Matching phrase, accepts wildcards (*)

RESPONSE

STATUS CODE - 200: Response to get Syslog Events

RESPONSE MODEL - application/json

```
{
Get Syslog Events
  data [{
  Array of object: Object Event Logs
    oid           string
    values [{
    Array of object: Event Log Entry
      timestamp  integer  Timestamp of message
      message    string   Message
    }]
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id  string      This represents the id of the new object created for the POST API call.
  id             string      This represents the key for the localized property file to be used by UI to show the localized string.
  message        string      Success or error message
  messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                             Message in the localized file.
  messages [{
  Array of object:
    id             string    This represents the key for the localized property file to be used by UI to show the localized string.
    message        string    Success or error message
    field_name     string    Field name where the error was seen
```

```
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id    string      This represents the id of the new object created for the POST API call.
  id               string      This represents the key for the localized property file to be used by UI to show the localized string.
  message          string      Success or error message
  messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

  messages [{
  Array of object:

    id               string      This represents the key for the localized property file to be used by UI to show the localized string.
    message          string      Success or error message
    field_name       string      Field name where the error was seen
    messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  }]
}
```

24.2 GET /syslogs/messages/latest

Get Latest N Syslog Messages for a switch

Get latest N messages for a switch identified by oid

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
oid	string	Object ID, if exists, acts as a filter
max-messages	integer	Max Number of Messages to Retrieve
filter	string	Matching phrase, accepts wildcards (*)

RESPONSE

STATUS CODE - 200: Response to get Syslog Events

RESPONSE MODEL - application/json

```
{
Get Syslog Events

  data [{
  Array of object:  Object Event Logs

    oid              string
    values [{
    Array of object:  Event Log Entry

      timestamp  integer   Timestamp of message
      message    string    Message
    }]
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

25. SYSTEM

System APIs

25.1 GET /system/health

Get overall SFD health.

This API should be invoked to get the overall system health.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
exclusions	array of string **ALLOWED:** NGINX	excluded service name when computing system health

RESPONSE

STATUS CODE - 200: Response for getting system health.

RESPONSE MODEL - application/json

```
{
```
SFD health info

```
    status  enum  ALLOWED:ACTIVE, DOWN
```
SFD status

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
```
Array of object:

```
        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
```

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

25.2 POST /system/ping

Ping REST Service.

This API pings the rest service. Use case for this can be client application dependent.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to system ping request.

RESPONSE MODEL - application/json

```
{
```
SFD REST Service Ping info

```
  ping  string
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```
new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.

```
      message      string        Success or error message
      field_name   string        Field name where the error was seen
      messageParams [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
  }
```

25.3 POST /system/license-file

Upload the SFD license file.

License file is obtained from Dell Digital Locker, downloaded into local machine, and then upload into SFD.

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
LicenseFile	string(binary)	The SFD license file to be uploaded.

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id           string       This represents the key for the localized property file to be used by UI to show the localized string.
    message      string       Success or error message
    field_name   string       Field name where the error was seen
    messageParams [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  }]
}
```

STATUS CODE - 400: Invalid request - uploaded file is not valid

RESPONSE MODEL - application/json

```
{
  new_object_id  string       This represents the id of the new object created for the POST API call.
  id             string       This represents the key for the localized property file to be used by UI to show the localized string.
  message        string       Success or error message
  messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id           string       This represents the key for the localized property file to be used by UI to show the localized string.
    message      string       Success or error message
    field_name   string       Field name where the error was seen
    messageParams [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

25.4 GET /system/status

Get system status on login page

This API should be invoked on login page to get the status of SFD after maintenance mode.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to get system status on login page

RESPONSE MODEL - application/json

```
{
```
The system status displayed on login page. It describes the state of SFD during maintenance mode. Once the state is acknowledged by any SFD operator, the status will not be shown. SFD is in maintenance mode during restore or upgrade operations.

```
    message   string    The description or error message of current operation.
    status    enum       ALLOWED: RESTORE_SUCCESS, RESTORE_FAILED, UPGRADE_SUCCESS,
                         UPGRADE_FAILED, NOT_SET
                         current status of operation.
```

```
      version   string   Current version of SFD.
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id            string      This represents the key for the localized property file to be used by UI to show the localized string.
        message       string      Success or error message
        field_name    string      Field name where the error was seen
        messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id            string      This represents the key for the localized property file to be used by UI to show the localized string.
        message       string      Success or error message
        field_name    string      Field name where the error was seen
        messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    }]
}
```

26. SYSTEM-SETTINGS

SFD system settings

26.1 GET /system-settings

Returns list of SFD system settings.

This API returns list of SFD system settings.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get system settings configured with SFD

RESPONSE MODEL - application/json

```
{
    system_name  string   SFD hostname
    gateway_ip   string   SFD gateway
    ntp {
    NTP servers response
        data [string]  NTP server
    }
    dns {
    DNS servers response
        data [string]  DNS server
    }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:
        id             string       This represents the key for the localized property file to be used by UI to show the localized string.
        message        string       Success or error message
        field_name     string       Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id  string       This represents the id of the new object created for the POST API call.
    id             string       This represents the key for the localized property file to be used by UI to show the localized string.
    message        string       Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
                                        Message in the localized file.

messages [{
Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  }]
}
```

26.2 PUT /system-settings/gateway

Configure default gateway in SFD.

This API should be invoked to configure default gateway.

REQUEST

REQUEST BODY - application/json

```
{
   gateway  string  min:1 chars
                    PATTERN:^(?:[0-9]{1,3}\.){3}[0-9]{1,3}$
                    SFD gateway to be configured
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
```

```
        field_name     string        Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
      }]
  }
```

STATUS CODE - default: success or error response

> **RESPONSE MODEL - application/json**

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

26.3 POST /system-settings/ntp

Configure NTP server in SFD.

This API should be invoked to configure NTP server.

REQUEST

> **REQUEST BODY - application/json**
```
{
    url   string   SFD NTP server to be configured
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

> **RESPONSE MODEL - application/json**

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string        This represents the key for the localized property file to be used by UI to show the localized string.
        message         string        Success or error message
        field_name      string        Field name where the error was seen
        messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

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

Delete the Ntp server from SFD.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*ntp_server	string	delete ntp server

RESPONSE

STATUS CODE - **200:** success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
```

```
    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams  [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

26.5 POST /system-settings/dns

Configure DNS server in SFD.

This API should be invoked to configure DNS server.

REQUEST

REQUEST BODY - application/json
```
{
    url  string   SFD DNS server to be configured
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json
```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json
```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:
        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

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

Delete the Dns server from SFD.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*dns_server	string	delete dns server

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:
        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
```

```
    messageParams    [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

       id                string    This represents the key for the localized property file to be used by UI to show the localized string.
       message           string    Success or error message
       field_name        string    Field name where the error was seen
       messageParams    [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
  }
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
  {
     new_object_id    string    This represents the id of the new object created for the POST API call.
     id               string    This represents the key for the localized property file to be used by UI to show the localized string.
     message          string    Success or error message
     messageParams    [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
     messages [{
     Array of object:

        id               string    This represents the key for the localized property file to be used by UI to show the localized string.
        message          string    Success or error message
        field_name       string    Field name where the error was seen
        messageParams    [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
     }]
  }
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
  {
     new_object_id    string    This represents the id of the new object created for the POST API call.
     id               string    This represents the key for the localized property file to be used by UI to show the localized string.
     message          string    Success or error message
     messageParams    [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
     messages [{
     Array of object:

        id               string    This represents the key for the localized property file to be used by UI to show the localized string.
        message          string    Success or error message
        field_name       string    Field name where the error was seen
        messageParams    [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
     }]
  }
```

27. TELEMETRY

Time series based metrics and state infomation

27.1 GET /telemetry/catalog

Get supported observed variables.

Catalog to get all supported observed state and metric variables for telemetry.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response for observed variable catalog

RESPONSE MODEL - application/json

```
{
  state [{
  Array of object:
    object_type  string
    state_name   [string]
  }]
  metrics [{
  Array of object:
    object_type  string
    metric_name  [string]
  }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
  new_object_id  string      This represents the id of the new object created for the POST API call.
  id             string      This represents the key for the localized property file to be used by UI to show the localized string.
  message        string      Success or error message
  messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                             Message in the localized file.
  messages [{
  Array of object:
    id             string    This represents the key for the localized property file to be used by UI to show the localized string.
    message        string    Success or error message
    field_name     string    Field name where the error was seen
    messageParams  [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                             Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id  string      This represents the id of the new object created for the POST API call.
  id             string      This represents the key for the localized property file to be used by UI to show the localized string.
  message        string      Success or error message
  messageParams  [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
                                          Message in the localized file.
   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

   messages [{
   Array of object:

      id                string      This represents the key for the localized property file to be used by UI to show the localized string.
      message           string      Success or error message
      field_name        string      Field name where the error was seen
      messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.

   }]
}
```

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

Provides operations for changing connection status with a switch

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*switch-id	string	Unique identifier of the Switch

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*action	enum ALLOWED: CONFIGURE, RECONNECT	Action to perform on the switch

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string      This represents the id of the new object created for the POST API call.
   id               string      This represents the key for the localized property file to be used by UI to show the localized string.
   message          string      Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
messages [{
Array of object:

    id              string    This represents the key for the localized property file to be used by UI to show the localized string.
    message         string    Success or error message
    field_name      string    Field name where the error was seen
    messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

}]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

  messages [{
  Array of object:

      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
      message         string    Success or error message
      field_name      string    Field name where the error was seen
      messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

  messages [{
  Array of object:

      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
      message         string    Success or error message
      field_name      string    Field name where the error was seen
      messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string    This represents the id of the new object created for the POST API call.
  id              string    This represents the key for the localized property file to be used by UI to show the localized string.
  message         string    Success or error message
  messageParams   [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.

  messages [{
  Array of object:

      id              string    This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message           string       Success or error message
      field_name        string       Field name where the error was seen
      messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

   }]
}
```

28. TOPOLOGY

Physical Topology of the fabric

28.1 GET /topology/status

Overall status of the fabric

Fabric creation involves design of topology, discovery of physical switches and configuration of the switches. This api can be invoked any time to know the status of the fabric. This will provide status of the each step in creation of the fabric.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to the fabric status request

RESPONSE MODEL - application/json

```
{
  design {
```
Tells the status of active topology
```
    status        enum        DEFAULT:NOT_DONE
                              ALLOWED:NOT_DONE, ACCEPTED, IN_PROGRESS, ERROR, SUCCESS
```
Status to tell about the design of the fabric. The state is NOT_DONE when no import has been initiated, ACCEPTED when the import request has been accepted by SFD, IN_PROGRESS when SFD has started processing the imported wiring JSON, SUCCESS when the topology import is finished and is successful, and ERROR when topology import could not be done due to errors in the imported JSON.
```
    error {
      id              string      This represents the key for the localized property file to be used by UI to show the localized
                                  string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in
                                  the Message in the localized file.
    }
    imported    boolean    Tells if there is any wiring-diagram is imported or not.
    active      boolean    Tells if the there is any wiring-diagram is in active state.
  }
  inventory {
```
Tells the status of discovery of the inventory in the fabric.
```
    switches_designed_count              integer   The number of switches in the design of the fabric
    switches_discovered_count            integer   The number of switches discovered in the fabric
    switches_reachable_count             integer   The number of switches reachable on the management interface.
    switches_unreachable_count           integer   The number of switches unreachable on the management
                                                   interface
    switches_credential_failure_count    integer   The number of switches on which credentials did not match.
    additional_switches_discovered       integer   The number of additional switches discovered which are not part
                                                   of the fabric design
    connections_designed_count           integer   The number of connections in the design of the fabric
    connections_discovered_count         integer   The number of connections discovered in the fabric
    additional_connections_discovered    integer   The number of additional connections discovered which are not
                                                   part of the fabric design
    discovered_host_count                integer   The number of hosts discovered through lldp.
  }
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
        messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.

    }]
}
```

28.2 POST /topology/upload

uploads the physical topology file in JSON format.
The fabric design can be uploaded here. The NFC will learn the design and then provide the next steps to perform.

REQUEST

RESPONSE

STATUS CODE - 201: response to the topology upload

RESPONSE MODEL - application/json

```
{
    new_object_id    string       This represents the id of the new object created for the POST API call.
    id               string       This represents the key for the localized property file to be used by UI to show the localized string.
    message          string       Success or error message
    messageParams    [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id               string       This represents the key for the localized property file to be used by UI to show the localized string.
        message          string       Success or error message
        field_name       string       Field name where the error was seen
                                      Params array to substitute in the message. This will be used by UI to substitue the params in the
```

```
      messageParams  [string]    Message in the localized file.
   }]
}
```

STATUS CODE - 400: Invalid request - uploaded file is not valid

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

28.3 GET /topology

Returns the physical topoplogy of the fabric

This describes the topoplogy of the fabric. It also tells if the switches are discovered or not.

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
edge-cloud	boolean	If this parameter is false then edge cloud and edge cloud conenctions will not be returned.

RESPONSE

STATUS CODE - 200: Response to the fabric topology request

RESPONSE MODEL - application/json

{

This object describes the physical topology of the fabric

id	string	Unique identifier of the topology
name	string	name of the topology
fabric_type	enum	**ALLOWED:** L2_VLT, L3_BGP, BGP_EVPN
		The type of fabric based on the Wiring design

switches [{

Array of object: this object describes the switch object in the fabric

id	string	This is unique identifier of the switch in the fabric
name	string	unique name of the switch in the fabric
model	string	model number of the switch
serial_number	string	serial number of the switch
switch_service_tag	string	service tag of the switch
position	integer	The position of the switch in the leaf or spine tier
role	enum	**ALLOWED:** LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
		This tells if the switch is Leaf or Spine
peer_switch_id	string	Id of other switch which is in VLT or MLAG with this switch
mgmt_ip_address	string	management IP address of the switch

states {

"Describes the state of switch in the topology. If the switch is discovered, reachable etc"

switch_state enum **ALLOWED:** DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE, ERROR, UNMANAGED, REBOOT_IN_PROGRESS

The current state of the switch. The switch is Manintenance state if any LCM job is being performed on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth failure, config errors etc.

error_detail enum **ALLOWED:** NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR, NOT_OPERATIONAL

If the switch state is in error then this enum tells the reason for that error.

}

interfaces [{

Array of object: "this object defines the interface object in fabric topology"

id string Unique identifier of the interface in the switch

name string Unique name of the interface in the fabric

type enum **ALLOWED:** ETHERNET, LOOPBACK, ROUTED_VLAN, AGGREGATION, UNDEFINED

Describes the type of interface

role enum **ALLOWED:** MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK, LOOPBACK, UNDEFINED, NOT_APPLICABLE

Describes the type of connection from one interface to another.

```
        speed    string   Describes the speed on the physical port
        state    enum     ALLOWED:NONE, OPERATIONAL, DEGRADED, DOWN
                          Describes the operation state of the entity. It can take different values depending upon the running state of
                          the entity.
    }]
  }]
  connections [{
  Array of object: "Describes the link between the switches, servers and ports on switches"

      id                                         string   Unique identifier of the connection object
      name                                       string   name of the connection
      source_switch_id                           string   Id of the source switch
      destination_switch_id                      string   Id of the destination switch
      source_switch_interface_id                 string   id of the interface on the source switch
      destination_switch_interface_id  string   id of the interface on the destination switch
      role                                       enum     ALLOWED:MANAGEMENT, EDGELINK, HOSTLINK,
                                                          VLTLINK, INTERLINK, LOOPBACK, UNDEFINED,
                                                          NOT_APPLICABLE
                                                          Describes the type of connection from one interface to another.

      states {
      "Describes the state of switch in the topology. If the switch is discovered, reachable etc"

          defined      boolean   If the switch was defined in the topology design. If a new switch is found during discovery which
                                 is not part of the design then it will be marked as false.
          discovered   boolean   If the switch is discovered in the fabric. Once the design is done then controller will try to discover
                                 the switch. If it is discoved then it will be marked discovered.
          operational  enum     ALLOWED:NONE, OPERATIONAL, DEGRADED, DOWN
                                 Describes the operation state of the entity. It can take different values depending upon the running
                                 state of the entity.
      }
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id              string     This represents the key for the localized property file to be used by UI to show the localized string.
        message         string     Success or error message
        field_name      string     Field name where the error was seen
        messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:
```

```
      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

29. UPGRADE

Upgrade APIs related to SFD upgrades

29.1 POST /upgrades/local-file

Upload upgrade file from local host

REQUEST

FORM DATA PARAMETERS

NAME	TYPE	DESCRIPTION
upgradeFile	string(binary)	the local upgrade file to be uploaded

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.

   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

29.2 POST /upgrades/remote-file

Upload upgrade file from remote server.

REQUEST

REQUEST BODY - application/json
```
{
```
Remote location where the upgrade bundle file is located.

```
    bundle_location*   string     The location of the upgrade bundle.
    username*          string     Username of the remote server
    password*          string     Password of the remote server
    hostname*          string     Hostname of the remote server
    port*              integer    Port of the remote server
    protocol*          enum       ALLOWED: FTP, SFTP
                                  supported protocols to access the image server
}
```

RESPONSE

STATUS CODE - 201: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

29.3 GET /upgrades/{id}

Get current upgrade object by id

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the upgrade.

RESPONSE

STATUS CODE - 200: Response to upload upgrade file

RESPONSE MODEL - application/json

{

The detailed information of whole upgrade progress.

upgrade_id	string	Unique identifier of upgrade.

file_info {

The information of upgrade bundle file.

name	string	name of upgrade file
size	integer	The size of this upgrade file in KB.

}

upgrade_from	string	Origin version where SFD upgrade from.
upgrade_to	string	Current upgrade version of SFD.
pre_check_ts	integer	Time at which last pre-check was done. The timestamp is defined in epoch milliseconds.
state	enum	**ALLOWED:**NOT_STARTED, FILE_DOWNLOADING, FILE_DOWNLOADING_FAILED, FILE_VALIDATION_IN_PROGRESS, FILE_VALIDATION_FAILED, PRE_CHECK_IN_PROGRESS, PRE_CHECK_SUCCESS, PRE_CHECK_FAILED, UPGRADE_IN_PROGRESS, UPGRADE_SUCCESS, UPGRADE_FAILED
		Describe the current status of upgrade

pre_check_messages {

List of upgrade pre-check messages along with their severity.

data [{

Array of object: The list of precheck error and warning messages

pre_check_type	enum	**ALLOWED:**NOT_SET, MINIMUM_CPU, MINIMUM_MEMORY, MINIMUM_AVAILABLE_DISK, MINIMUM_SFD_VERSION, SYSTEM_HEALTH, SWITCH_MANIFEST_SUPPORT, SCHEDULED_SFD_JOBS
		Describe the type of pre-check
severity	enum	**ALLOWED:**NOT_SET, INFO, WARNING, ERROR
		Describe the severity of message

requirement	string	Describes the upgrade requirement
error_message	string	Detailed message describing pre-check failure

```
    }]
  }
```

message	string	Current status information or error message of upgrade progress.
acknowledged_by	string	User id of NFC operator who previously have acknowledged this upgrade.
acknowledged_at	integer	The time in seconds since epoch at which this upgrade was acknowledged by NFC operator. This field is empty if the acknowledge is in FALSE state.
initiated_by	string	name of user who initiated this upgrade.
start_at	integer	Time of upgrade start. The timestamp is defined in epoch milliseconds.
completed_at	integer	Time of upgrade completion. The timestamp is defined in epoch milliseconds.
error	enum	**ALLOWED:** UNSET, REMOTE_SERVER_INVALID_PROTOCOL, REMOTE_SERVER_FAILED_TO_CONNECT, REMOTE_SERVER_INVALID_CREDENTIALS, REMOTE_SERVER_HOST_UNREACHABLE, REMOTE_SERVER_IO_ERROR, REMOTE_SERVER_REMOTE_DIR_NOT_PRESENT, REMOTE_SERVER_REMOTE_FILE_NOT_PRESENT, REMOTE_SERVER_FAILED_TO_DOWNLOAD_FILE, REMOTE_SERVER_FAILED_TO_UPLOAD_FILE, REMOTE_SERVER_FAILED_TO_LIST_FILES_ON_REMOTE_PATH, UPGRADE_ALREADY_IN_PROGRESS, LOCAL_BUNDLE_NOT_PRESENT, INVALID_UPGRADE_ID, INTERNAL_SERVER_ERROR, LATEST_UPGRADE_RECORD_NOT_FOUND, PRE_CHECKS_NOT_COMPLETED, UPGRADE_NOT_PERFORMED_SUCCESSFULLY, ACKNOWLEDGE_FAILED Error, if any

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message

```
        field_name       string        Field name where the error was seen
        messageParams   [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams  [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                      Message in the localized file.
    }]
}
```

29.4 GET /upgrades/{id}/switch-manifest-report

Get switch manifest report by upgradeid

Download the switch OS incompatibility report. The report will contain list of switch details that will be unsupported after SFD is upgraded to new version.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the upgrade.

RESPONSE

STATUS CODE - 200: list of switch summary

RESPONSE MODEL - application/json

```
{
This object represent the list of switch summary.
    data [{
    Array of object:  switch summary

        id                           string                    Unique identifier of the switch object
        name                         string                    name of the switch
        service_tag                  string                    service tag of switch
        model                        string                    model of the switch
        os_version                   string                    os version of the switch
        status {
        "Describes the state of switch in the topology. If the switch is discovered, reachable etc"

            switch_state   enum   ALLOWED:DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE,
                                  ERROR, UNMANAGED, REBOOT_IN_PROGRESS
                                  The current state of the switch. The switch is Manintenance state if any LCM job is being performed
```

on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth failure, config errors etc.

```
    error_detail enum  ALLOWED:NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR,
                       NOT_OPERATIONAL
                       If the switch state is in error then this enum tells the reason for that error.
  }
  role                         enum                  ALLOWED:LEAF, SPINE, EDGE_LEAF,
                                                     EDGE_CLOUD
                                                     The Role for a switch, if its a LEAF, SPINE, or an
                                                     EDGE_LEAF
}]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id  string     This represents the id of the new object created for the POST API call.
  id             string     This represents the key for the localized property file to be used by UI to show the localized string.
  message        string     Success or error message
  messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
  messages [{
  Array of object:

    id             string     This represents the key for the localized property file to be used by UI to show the localized string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
  new_object_id  string     This represents the id of the new object created for the POST API call.
  id             string     This represents the key for the localized property file to be used by UI to show the localized string.
  message        string     Success or error message
  messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
  messages [{
  Array of object:

    id             string     This represents the key for the localized property file to be used by UI to show the localized string.
    message        string     Success or error message
    field_name     string     Field name where the error was seen
    messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id  string     This represents the id of the new object created for the POST API call.
  id             string     This represents the key for the localized property file to be used by UI to show the localized string.
  message        string     Success or error message
  messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                            Message in the localized file.
```

```
messages [{
Array of object:

    id               string    This represents the key for the localized property file to be used by UI to show the localized string.
    message          string    Success or error message
    field_name       string    Field name where the error was seen
    messageParams    [string]  Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
}]
}
```

29.5 GET /upgrades/latest

Get latest upgrade details.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to upload upgrade file

RESPONSE MODEL - application/json

```
{
The detailed information of whole upgrade progress.
    upgrade_id          string    Unique identifier of upgrade.
    file_info {
    The information of upgrade bundle file.
        name  string    name of upgrade file
        size  integer   The size of this upgrade file in KB.
    }
    upgrade_from        string    Origin version where SFD upgrade from.
    upgrade_to          string    Current upgrade version of SFD.
    pre_check_ts        integer   Time at which last pre-check was done. The timestamp is defined in epoch milliseconds.
    state               enum      ALLOWED:NOT_STARTED, FILE_DOWNLOADING,
                                  FILE_DOWNLOADING_FAILED, FILE_VALIDATION_IN_PROGRESS,
                                  FILE_VALIDATION_FAILED, PRE_CHECK_IN_PROGRESS,
                                  PRE_CHECK_SUCCESS, PRE_CHECK_FAILED, UPGRADE_IN_PROGRESS,
                                  UPGRADE_SUCCESS, UPGRADE_FAILED
                                  Describe the current status of upgrade
    pre_check_messages {
    List of upgrade pre-check messages along with their severity.
        data [{
        Array of object:  The list of precheck error and warning messages
            pre_check_type enum   ALLOWED:NOT_SET, MINIMUM_CPU, MINIMUM_MEMORY,
                                  MINIMUM_AVAILABLE_DISK, MINIMUM_SFD_VERSION,
                                  SYSTEM_HEALTH, SWITCH_MANIFEST_SUPPORT,
                                  SCHEDULED_SFD_JOBS
                                  Describe the type of pre-check
            severity       enum   ALLOWED:NOT_SET, INFO, WARNING, ERROR
                                  Describe the severity of message
            requirement    string Describes the upgrade requirement
            error_message  string Detailed message describing pre-check failure
        }]
    }
    message             string    Current status information or error message of upgrade progress.
    acknowledged_by     string    User id of NFC operator who previously have acknowledged this upgrade.
    acknowledged_at     integer   The time in seconds since epoch at which this upgrade was acknowledged by NFC operator. This
```

		field is empty if the acknowledge is in FALSE state.
initiated_by	string	name of user who initiated this upgrade.
start_at	integer	Time of upgrade start. The timestamp is defined in epoch milliseconds.
completed_at	integer	Time of upgrade completion. The timestamp is defined in epoch milliseconds.
error	enum	**ALLOWED:**UNSET, REMOTE_SERVER_INVALID_PROTOCOL, REMOTE_SERVER_FAILED_TO_CONNECT, REMOTE_SERVER_INVALID_CREDENTIALS, REMOTE_SERVER_HOST_UNREACHABLE, REMOTE_SERVER_IO_ERROR, REMOTE_SERVER_REMOTE_DIR_NOT_PRESENT, REMOTE_SERVER_REMOTE_FILE_NOT_PRESENT, REMOTE_SERVER_FAILED_TO_DOWNLOAD_FILE, REMOTE_SERVER_FAILED_TO_UPLOAD_FILE, REMOTE_SERVER_FAILED_TO_LIST_FILES_ON_REMOTE_PATH, UPGRADE_ALREADY_IN_PROGRESS, LOCAL_BUNDLE_NOT_PRESENT, INVALID_UPGRADE_ID, INTERNAL_SERVER_ERROR, LATEST_UPGRADE_RECORD_NOT_FOUND, PRE_CHECKS_NOT_COMPLETED, UPGRADE_NOT_PERFORMED_SUCCESSFULLY, ACKNOWLEDGE_FAILED
		Error, if any

}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]
}

29.6 POST /upgrades/latest

Perform specified action on latest upgrade

REQUEST

QUERY PARAMETERS

NAME	TYPE	DESCRIPTION
*action	enum ALLOWED: PRE_CHECK, INIT, ACK	Action to perform on the upgrade. pre-check, init and ack operations needs to be performed in-order. ACK will fail if called before INIT and INIT will fail if called before PRE-CHECK.

RESPONSE

STATUS CODE - 201: Response to upload upgrade file

RESPONSE MODEL - application/json

{
The detailed information of whole upgrade progress.

    upgrade_id   string   Unique identifier of upgrade.

    file_info {
    The information of upgrade bundle file.

        name   string   name of upgrade file

        size   integer   The size of this upgrade file in KB.

    }

    upgrade_from   string   Origin version where SFD upgrade from.

    upgrade_to   string   Current upgrade version of SFD.

    pre_check_ts   integer   Time at which last pre-check was done. The timestamp is defined in epoch milliseconds.

    state   enum   **ALLOWED:** NOT_STARTED, FILE_DOWNLOADING, FILE_DOWNLOADING_FAILED, FILE_VALIDATION_IN_PROGRESS, FILE_VALIDATION_FAILED, PRE_CHECK_IN_PROGRESS, PRE_CHECK_SUCCESS, PRE_CHECK_FAILED, UPGRADE_IN_PROGRESS, UPGRADE_SUCCESS, UPGRADE_FAILED

                               Describe the current status of upgrade

    pre_check_messages {
    List of upgrade pre-check messages along with their severity.

        data [{
        Array of object: The list of precheck error and warning messages

            pre_check_type   enum   **ALLOWED:** NOT_SET, MINIMUM_CPU, MINIMUM_MEMORY, MINIMUM_AVAILABLE_DISK, MINIMUM_SFD_VERSION, SYSTEM_HEALTH, SWITCH_MANIFEST_SUPPORT, SCHEDULED_SFD_JOBS

                                 Describe the type of pre-check

            severity   enum   **ALLOWED:** NOT_SET, INFO, WARNING, ERROR

                                   Describe the severity of message

            requirement   string   Describes the upgrade requirement

            error_message   string   Detailed message describing pre-check failure

        }]

    }

    message   string   Current status information or error message of upgrade progress.

    acknowledged_by   string   User id of NFC operator who previously have acknowledged this upgrade.

    acknowledged_at   integer   The time in seconds since epoch at which this upgrade was acknowledged by NFC operator. This field is empty if the acknowledge is in FALSE state.

    initiated_by   string   name of user who initiated this upgrade.

    start_at   integer   Time of upgrade start. The timestamp is defined in epoch milliseconds.

    completed_at   integer   Time of upgrade completion. The timestamp is defined in epoch milliseconds.

```
      error               enum       ALLOWED:UNSET, REMOTE_SERVER_INVALID_PROTOCOL,
                                      REMOTE_SERVER_FAILED_TO_CONNECT,
                                      REMOTE_SERVER_INVALID_CREDENTIALS,
                                      REMOTE_SERVER_HOST_UNREACHABLE, REMOTE_SERVER_IO_ERROR,
                                      REMOTE_SERVER_REMOTE_DIR_NOT_PRESENT,
                                      REMOTE_SERVER_REMOTE_FILE_NOT_PRESENT,
                                      REMOTE_SERVER_FAILED_TO_DOWNLOAD_FILE,
                                      REMOTE_SERVER_FAILED_TO_UPLOAD_FILE,
                                      REMOTE_SERVER_FAILED_TO_LIST_FILES_ON_REMOTE_PATH,
                                      UPGRADE_ALREADY_IN_PROGRESS, LOCAL_BUNDLE_NOT_PRESENT,
                                      INVALID_UPGRADE_ID, INTERNAL_SERVER_ERROR,
                                      LATEST_UPGRADE_RECORD_NOT_FOUND, PRE_CHECKS_NOT_COMPLETED,
                                      UPGRADE_NOT_PERFORMED_SUCCESSFULLY, ACKNOWLEDGE_FAILED
                                      Error, if any
}
```

STATUS CODE - 400: Invalid request.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
   message         string      Success or error message
   messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
   messages [{
   Array of object:

      id              string      This represents the key for the localized property file to be used by UI to show the localized string.
      message         string      Success or error message
      field_name      string      Field name where the error was seen
      messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string      This represents the id of the new object created for the POST API call.
   id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{

Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

}]

}

30. VM-MANAGER

vCenter and NSX access APIs

30.1 GET /vm-managers

Returns all the vCenters and NSX managed by SFD.

This api returns all the vm-managers monitored by SFD.

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Get all the vCenters and Nsx managed by NFC

RESPONSE MODEL - application/json

```
{
Get all the vCenters/NSX managed by NFC
  data [{
  Array of object: Nfc vCenter/NSX Object
    id            string    Unique identifier of the nfc vCenter/NSX object
    name          string    Name of the vCenter/NSX VM Manager.
    type          enum      ALLOWED:VCENTER, NSX
                            Type of the Vm-manager. Currently vCenter and NSX are supported.
    url           string    URL of VM manager
    description   string    description of VM Manager
    username      string    VM Manager username
    tenants [{
    Array of object: Tenant info object
      tenant_id     string    Unique identifier of the tenant.
      tenant_name   string    Name of the tenant.
    }]
    state         enum      ALLOWED:OPERATIONAL, NOT_REACHABLE, INVALID_CREDENTIALS
                            Operational state of the VM-Manager
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string       This represents the id of the new object created for the POST API call.
  id              string       This represents the key for the localized property file to be used by UI to show the localized string.
  message         string       Success or error message
  messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                               Message in the localized file.
  messages [{
  Array of object:
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    field_name      string       Field name where the error was seen
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id            string      This represents the key for the localized property file to be used by UI to show the localized string.
        message       string      Success or error message
        field_name    string      Field name where the error was seen
        messageParams [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    }]
}
```

30.2 POST /vm-managers

Adds vCenter/NSX url and credentials provided by user.

The API to add vCenter or NSX. SFD will contact the vCenter or NSX and configures the switches for Host networks.

REQUEST

REQUEST BODY - application/json

```
{
Add VM Manager request object

    type          enum      ALLOWED:VCENTER, NSX
                            Type of the Vm-manager. Currently  vCenter and NSX are supported.
    name          string    Name of the VM Manager
    description   string    Description of the VM Manager
    url           string    min:1 chars
                            URL of vCenter/NSX, expected inputs are: 1. IP Address: x.x.x.x 2. Domain Name: domain.com, domain 3. Fully
                            qualified url with schema: https://example.com or http://example.com By Default https schema is applied to ip
                            address or domain name. If user chooses to connect over http then a fully qualified url must be provided
    username      string    min:1 chars
                            user id to VM Manager
    password      string    min:1 chars
                            password to access the VM Manager.
}
```

RESPONSE

STATUS CODE - 201: New entity created successfully.

RESPONSE MODEL - application/json

```
{
    new_object_id   string        This represents the id of the new object created for the POST API call.
    id              string        This represents the key for the localized property file to be used by UI to show the localized string.
    message         string        Success or error message
    messageParams   [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                  Message in the localized file.

    messages [{
    Array of object:

        id            string      This represents the key for the localized property file to be used by UI to show the localized string.
        message       string      Success or error message
        field_name    string      Field name where the error was seen
```

```
        messageParams  [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.
      }]
   }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id   string       This represents the id of the new object created for the POST API call.
   id              string       This represents the key for the localized property file to be used by UI to show the localized string.
   message         string       Success or error message
   messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

   messages [{
   Array of object:

      id              string     This represents the key for the localized property file to be used by UI to show the localized string.
      message         string     Success or error message
      field_name      string     Field name where the error was seen
      messageParams   [string]   Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.
   }]
}
```

30.3 GET /vm-managers/{id}

Get VM Manager By Id

This api returns configured vm-manager by given id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the vCenter/NSX

RESPONSE

STATUS CODE - 200: vCenter and NSX managed by NFC

RESPONSE MODEL - application/json

```
{
```
Nfc vCenter/NSX Object

id	string	Unique identifier of the nfc vCenter/NSX object
name	string	Name of the vCenter/NSX VM Manager.
type	enum	**ALLOWED:**VCENTER, NSX
		Type of the Vm-manager. Currently vCenter and NSX are supported.
url	string	URL of VM manager
description	string	description of VM Manager
username	string	VM Manager username

```
    tenants [{
```
Array of object: Tenant info object

tenant_id	string	Unique identifier of the tenant.
tenant_name	string	Name of the tenant.

```
    }]
```

state	enum	**ALLOWED:**OPERATIONAL, NOT_REACHABLE, INVALID_CREDENTIALS
		Operational state of the VM-Manager

```
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
        message             string      Success or error message
        field_name          string      Field name where the error was seen
        messageParams       [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

30.4 PUT /vm-managers/{id}

this API updates VM-Manager By Id

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the vCenter/NSX to be updated

REQUEST BODY - application/json
```
{
Add VM Manager request object

    type        enum        ALLOWED: VCENTER, NSX
                            Type of the Vm-manager. Currently  vCenter and NSX are supported.
    name        string      Name of the VM Manager
    description string      Description of the VM Manager
    url         string      min:1 chars
                            URL of vCenter/NSX, expected inputs are: 1. IP Address: x.x.x.x 2. Domain Name: domain.com, domain 3. Fully
                            qualified url with schema: https://example.com or http://example.com By Default https schema is applied to ip
                            address or domain name. If user chooses to connect over http then a fully qualified url must be provided
    username    string      min:1 chars
                            user id to VM Manager
    password    string      min:1 chars
                            password to access the VM Manager.
}
```

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json
```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:
        id                  string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
  }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
   new_object_id    string          This represents the id of the new object created for the POST API call.
   id               string          This represents the key for the localized property file to be used by UI to show the localized string.
   message          string          Success or error message
   messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
   messages [{
   Array of object:

      id               string          This represents the key for the localized property file to be used by UI to show the localized string.
      message          string          Success or error message
      field_name       string          Field name where the error was seen
      messageParams    [string]        Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
```

```
        }]
    }
```

30.5 DELETE /vm-managers/{id}

Delete a vm-manager By Id

This api deletes a vCenter/NSX by id.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the vCenter/NSX

RESPONSE

STATUS CODE - 200: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.

    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string      This represents the id of the new object created for the POST API call.
    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.

    messages [{
    Array of object:

        id              string      This represents the key for the localized property file to be used by UI to show the localized string.
        message         string      Success or error message
        field_name      string      Field name where the error was seen
        messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                    Message in the localized file.
    }]
}
```

31. WIRING DIAGRAM

Wiring diagram builder for the fabric.

31.1 POST /wiring-diagrams

Uploads the physical wiring diagram file in JSON format.

Upload the fabric design file in JSON format. The Wiring diagram is colllection of Leaf and Spine switches and connections between them. Multiple wiring diagrams can be uploaded.

REQUEST

RESPONSE

STATUS CODE - 200: response to the wiring upload

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 400: Invalid request - uploaded file is not valid

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
```

```
      message          string        Success or error message
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      }]
   }
```

STATUS CODE - **default:** success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id    string        This represents the id of the new object created for the POST API call.
      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
         message         string      Success or error message
         field_name      string      Field name where the error was seen
         messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      }]
   }
```

31.2 DELETE /wiring-diagrams/{id}

Delete a Wiring diagram.

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

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the wiring diagram

RESPONSE

STATUS CODE - **200:** success or error response

RESPONSE MODEL - application/json

```
   {
      new_object_id    string        This represents the id of the new object created for the POST API call.
      id               string        This represents the key for the localized property file to be used by UI to show the localized string.
      message          string        Success or error message
      messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.

      messages [{
      Array of object:

         id              string      This represents the key for the localized property file to be used by UI to show the localized string.
```

```
        message           string        Success or error message
        field_name        string        Field name where the error was seen
        messageParams     [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                        Message in the localized file.
    }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - 404: Requested entity does not exist.

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id    string        This represents the id of the new object created for the POST API call.
    id               string        This represents the key for the localized property file to be used by UI to show the localized string.
    message          string        Success or error message
    messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id               string        This represents the key for the localized property file to be used by UI to show the localized string.
        message          string        Success or error message
        field_name       string        Field name where the error was seen
        messageParams    [string]      Params array to substitute in the message. This will be used by UI to substitue the params in the
                                       Message in the localized file.
```

```
    }]
  }
```

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

Get topology for a wiring diagram

Retruns the physical topology created from this wiring Diagram

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the wiring diagram

RESPONSE

STATUS CODE - 200: Response to the fabric topology request

RESPONSE MODEL - application/json

```
{
```
This object describes the physical topology of the fabric

id	string	Unique identifier of the topology
name	string	name of the topology
fabric_type	enum	**ALLOWED:**L2_VLT, L3_BGP, BGP_EVPN
		The type of fabric based on the Wiring design

```
  switches [{
```
Array of object: this object describes the switch object in the fabric

id	string	This is unique identifier of the switch in the fabric
name	string	unique name of the switch in the fabric
model	string	model number of the switch
serial_number	string	serial number of the switch
switch_service_tag	string	service tag of the switch
position	integer	The position of the switch in the leaf or spine tier
role	enum	**ALLOWED:**LEAF, SPINE, EDGE_LEAF, EDGE_CLOUD
		This tells if the switch is Leaf or Spine
peer_switch_id	string	Id of other switch which is in VLT or MLAG with this switch
mgmt_ip_address	string	management IP address of the switch

```
    states {
```
"Describes the state of switch in the topology. If the switch is discovered, reachable etc"

switch_state	enum	**ALLOWED:**DEFINED, MAINTENANCE, REACHABLE, PROVISIONED, ACTIVE, ERROR, UNMANAGED, REBOOT_IN_PROGRESS
		The current state of the switch. The switch is Manintenance state if any LCM job is being performed on this job. The Switch will be in unmanaged state if the this switch is not supported by SFD based on SFD manifest file. The switch can be in ERROR state becuase of various reasons. Like not reachable, auth failure, config errors etc.
error_detail	enum	**ALLOWED:**NONE, CREDENTIAL_FAIL, UNREACHABLE, CONFIG_ERROR, NOT_OPERATIONAL
		If the switch state is in error then this enum tells the reason for that error.

```
    }
    interfaces [{
```
Array of object: "this object defines the interface object in fabric topology"

id	string	Unique identifier of the interface in the switch
name	string	Unique name of the interface in the fabric

type	enum	**ALLOWED:** ETHERNET, LOOPBACK, ROUTED_VLAN, AGGREGATION, UNDEFINED
		Describes the type of interface
role	enum	**ALLOWED:** MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK, LOOPBACK, UNDEFINED, NOT_APPLICABLE
		Describes the type of connection from one interface to another.
speed	string	Describes the speed on the physical port
state	enum	**ALLOWED:** NONE, OPERATIONAL, DEGRADED, DOWN
		Describes the operation state of the entity. It can take different values depending upon the running state of the entity.

```
      }]
    }]
  connections [{
```
Array of object: "Describes the link between the switches, servers and ports on switches"

id	string	Unique identifier of the connection object
name	string	name of the connection
source_switch_id	string	Id of the source switch
destination_switch_id	string	Id of the destination switch
source_switch_interface_id	string	id of the interface on the source switch
destination_switch_interface_id	string	id of the interface on the destination switch
role	enum	**ALLOWED:** MANAGEMENT, EDGELINK, HOSTLINK, VLTLINK, INTERLINK, LOOPBACK, UNDEFINED, NOT_APPLICABLE
		Describes the type of connection from one interface to another.

```
    states {
```
"Describes the state of switch in the topology. If the switch is discovered, reachable etc"

defined	boolean	If the switch was defined in the topology design. If a new switch is found during discovery which is not part of the design then it will be marked as false.
discovered	boolean	If the switch is discovered in the fabric. Once the design is done then controller will try to discover the switch. If it is discoved then it will be marked discovered.
operational	enum	**ALLOWED:** NONE, OPERATIONAL, DEGRADED, DOWN
		Describes the operation state of the entity. It can take different values depending upon the running state of the entity.

```
    }
  }]
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  messages [{
```
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

```
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
```

new_object_id	string	This represents the id of the new object created for the POST API call.

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

messages [{
Array of object:

id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
field_name	string	Field name where the error was seen
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the Message in the localized file.

    }]
}

31.4 GET /wiring-diagrams/summary

Get summary of imported wiring diagrams

Lists all imported wiring diagrams summary

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Response to wiring diagram summary

RESPONSE MODEL - application/json

{
Summary of imported wiring diagrams.

data [{
Array of object: This object provides the informatin about a Wiring Diagram

id	string	Unique identifier of wiring diagram.
name	string	Name of wiring Diagram
description	string	Description of wiring diagram
fabric_type	enum	**ALLOWED:** L2_VLT, L3_BGP, BGP_EVPN

The type of fabric based on the Wiring design

status	enum	**ALLOWED:** INACTIVE, ACTIVE, DRAFT, APPROVED

The status of wiring diagram representing current state. Upon uploading wiring-diagram it will be in Draft, it turns to approved once approval is received, becomes active when associated to deployed fabric, or active fabric, turns to inactive when the wiring-diagram is replaced

user_info {
This object describes the user information with respect to object like who created or updated the object

created_by	string	Name of the user who created the object.
created_at	integer	creation date of this object
last_updated_by	string	Name of the user who last updated this object
last_updated_at	integer	last update date of this object

    }
  }]
}

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

{

new_object_id	string	This represents the id of the new object created for the POST API call.
id	string	This represents the key for the localized property file to be used by UI to show the localized string.
message	string	Success or error message
messageParams	[string]	Params array to substitute in the message. This will be used by UI to substitue the params in the

```
                                                Message in the localized file.
    messages [{
    Array of object:

        id                  string        This represents the key for the localized property file to be used by UI to show the localized string.
        message             string        Success or error message
        field_name          string        Field name where the error was seen
        messageParams      [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                          Message in the localized file.

    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id      string      This represents the id of the new object created for the POST API call.
    id                 string      This represents the key for the localized property file to be used by UI to show the localized string.
    message            string      Success or error message
    messageParams     [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                   Message in the localized file.

    messages [{
    Array of object:

        id                  string        This represents the key for the localized property file to be used by UI to show the localized string.
        message             string        Success or error message
        field_name          string        Field name where the error was seen
        messageParams      [string]       Params array to substitute in the message. This will be used by UI to substitue the params in the
                                          Message in the localized file.

    }]
}
```

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

Get compatible fabric intents for this wiring diagram

Returns all compatible intents for this wiring diagrams.

REQUEST

PATH PARAMETERS

NAME	TYPE	DESCRIPTION
*id	string	Unique identifier of the wiring diagram

RESPONSE

STATUS CODE - 200: Response to campatible intents

RESPONSE MODEL - application/json

```
{
Retruns list of fabric intents which are compatible with this fabric intent

    data [{
    Array of object:  This object provides the compatible fabric intent information

        fabric_intent_id    string    Unique identifier of fabric intent.
        name                string    Name of fabric intent
        fabric_type         enum      DEFAULT:NOT_DEFINED
                                      ALLOWED:NOT_DEFINED, L3_BGP, L3_BGP_NSX_T, L2_VLT,
                                      BGP_EVPN
                                      Type of the interlink. This defines how the switches are connected. Based on the type set,
                                      corresponding object needs to be set with this input.
```

status	enum	**ALLOWED:** DRAFT, PENDING_APPROVAL, APPROVED, DEPLOY_IN_PROGRESS, ACTIVE, INACTIVE
		States of fabric intent.

```
    }]
  }
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
  new_object_id   string      This represents the id of the new object created for the POST API call.
  id              string      This represents the key for the localized property file to be used by UI to show the localized string.
  message         string      Success or error message
  messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                              Message in the localized file.

  messages [{
  Array of object:

    id              string      This represents the key for the localized property file to be used by UI to show the localized string.
    message         string      Success or error message
    field_name      string      Field name where the error was seen
    messageParams   [string]    Params array to substitute in the message. This will be used by UI to substitue the params in the
                                Message in the localized file.
  }]
}
```

31.6 GET /wiring-diagrams/supported-models

Get Switch supported models

Get all switch models by this SFD

REQUEST

No request parameters

RESPONSE

STATUS CODE - 200: Supported switch models

RESPONSE MODEL - application/json

```
{
```
List of supported switch models and images file names.

```
switch_models [{
Array of object:  Switch model and image file name.

    model          string      Name of switch model.
    image_files  [string]    image file name for this model.
}]
image_files  [string]   The image filename which is supported for all switch models.
}
```

STATUS CODE - 401: You are not authorized to perform this operation.

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```

STATUS CODE - default: success or error response

RESPONSE MODEL - application/json

```
{
    new_object_id   string       This represents the id of the new object created for the POST API call.
    id              string       This represents the key for the localized property file to be used by UI to show the localized string.
    message         string       Success or error message
    messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                 Message in the localized file.

    messages [{
    Array of object:

        id              string       This represents the key for the localized property file to be used by UI to show the localized string.
        message         string       Success or error message
        field_name      string       Field name where the error was seen
        messageParams   [string]     Params array to substitute in the message. This will be used by UI to substitue the params in the
                                     Message in the localized file.
    }]
}
```