Dell EMC SmartFabric Storage Software

RESTful API Guide

Notes, cautions, and warnings

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

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

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

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About this document

This document contains information about the resource models for Dell EMC SmartFabric Storage Software (SFSS).

Table 1. Supported REST API version

Product	REST API version
SmartFabric Storage Software	1.0

Term replacements

Dell EMC has changed this term in the documentation.

Table 2. Term replacement

Old term	New term
Master node	Primary node

NOTE: This API guide may contain language in the output examples that is not consistent with current guidelines. Dell plans to update this API guide over subsequent future releases to revise the language accordingly.

Overview

Dell EMC SmartFabric Storage Software (SFSS) supports RESTful APIs. Support for APIs enhances system management capabilities. The RESTful interface is provided over HTTPS in JSON based on ODATA usable by clients, scripts, and browser-based GUIs. The APIs allow you to build console management tools that are based on common programming and scripting languages such as Python, Java, C, etc.

Storage Fabric Services

The Dell EMC PowerSwitch OS10 software allows you to access the SFSS user interface (GUI). After you have logged into OS10, you can connect to SFSS where you can enable or disable SFSS and access the many SFSS features. For specific switches, you access the SFSS GUI through OS10 using the latest version of many common browsers, such as:

- Microsoft Edge
- Mozilla Firefox
- Google Chrome

The SFSS GUI connects in HTTPS mode using the OS10 system IP address.

NOTE: For more information about Storage Fabric Services, including a list of supported switches, see the Storage Fabric Sevices section of the Dell EMC SmartFabric OS10 User Guide.

RESTful application programming interface

Representational State Transfer or REST is a software architectural style that is used within the World Wide Web (WWW). REST architectures are used for IT solutions, including the definition of web-based APIs. Systems that adhere to REST practices are known as RESTful interfaces. RESTful interfaces use the HTTP methods—GET, POST, DELETE, and so on—that web browsers use to access web pages.

OData

OData is an open protocol standard for the definition and exchange of information using RESTful APIs. When implementing a common interface across multiple vendors, it is best to standardize the data formats. Standardizing the data formats ensure that the data structures remain interchangeable between different manufacturers.

JSON data

Console API represents data using JSON. JSON is a lightweight data-interchange format that is readable and parsed by machines. JSON is based on a subset of the JavaScript Programming Language. JSON uses a text format that is language independent but uses conventions familiar to programmers of the C-family of languages such as C, C++, C#, Java, JavaScript, PERL, and Python. These properties make JSON an ideal data-interchange language.

HTTPS communication

The Hypertext Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, hypermedia information systems. HTTP forms the foundation of data communication for the World Wide Web. Secure HTTP (HTTPS) is a secure version of HTTP where it operates within a network connection encrypted by TLS or SSL. With HTTPS, the security of console management is enhanced.

Topics:

- REST API tree structure
- Security and authentication
- Resource information
- Data information
- Request headers
- Response codes and headers

REST API tree structure

REST API tree structure

Resource model

https://[IP or DNS name]/api/\$metadata

Redfish scheme

HTTPS://[IP or DNS name]/redfish/v1

Security and authentication

Security

For security, only HTTPS is supported. You can also update the SSL self-signed certificate with a custom certificate. For example, you can upload a PKCS-12 certificate or sign an application-generated Certificate Signing Request (CSR).

Authentication

Several common schemes are available for enabling authentication of REST requests. Basic Authentication and X-Auth-Token Authentication are some of the common schemes.

Basic authentication

The authorization header in the request has the base-64 encoding of the credentials—username and password. If you do not provide the credentials, a 401—Authorization Failure error is returned. Basic Authentication is supported only when SSL/TLS is used for the transport.

Authorization

Table 3. Authentication and authorization requirements

Actions	Authentication required	Authorization required
Read operation on any instrumentation data	Y	Y
Modify instrumentation data	Y	Υ
Invoke actions	Υ	Υ
View service root	N	N
View metadata document	N	N

Table 3. Authentication and authorization requirements (continued)

Actions	Authentication required	Authorization required
View OData service document	N	N
View message registry	Y	N
View Redfish version URI	N	N
View JSONSchemaFile resource URI	N/A	N/A
View JSON schemas URI	N/A	N/A

Resource information

Each managed resource must be uniquely addressable using a distinct URI. The URI syntax must be intuitive and indicate the relationships with a parent resource.

Resource addressing

There are several ways to address specific resources either as instances of specific resource classes or within an associated parent context. Following is the format of a resource URI:

https://<IP address>/redfish/v1/sfss/<Instance #>/<API>

Where:

- <IP address> is the location of the API; for example, 10.10.10.10.
- <API> is the name of the API; for example, IpAclRules.

Following is an example of a resource URI, where 1234 is the unique identifier for the API:

https://<IP address>/redfish/v1/sfss/<Instance #>/<API(1234)>

Resource operations

Use standard HTTP methods to create, retrieve, update, and delete resources. The mapping of the HTTP methods to operational semantics is described in the following table:

Table 4. HTTPS methods

HTTPS method	Description	Example
GET	This method is used for retrieving the resource representation. This method does not modify the resource across repeated invocations. The query parameters are appended to the URI to appropriately filter the resource instances.	Only the eq operation is supported.
POST	This method is used for creating resources or performing actions.	Create a user session. Payload is not displayed. For example: POST <ip address="">/redfish/v1/sfss/<instance #="">/<api></api></instance></ip>
PUT	This method is used for updating a specific instance or create a specific resource instance with a specific identifier.	Update the user account details. Payload is not displayed. For example: PUT <ip address="">/redfish/v1/sfss/<instance #="">/<api></api></instance></ip>

Table 4. HTTPS methods (continued)

HTTPS method	Description	Example
DELETE	l '	Delete a specific user account. For example:DELETE <ip address="">/redfish/v1/sfss/ <instance #="">/</instance></ip>

When you perform tasks using these methods, they return an HTTP response code.

To perform update and delete operations, you must be authorized to perform the operations on the resource. If you do not have the required permission, an Unauthorized error is returned.

Data information

Data filtering

The console software provides filtering options on certain URIs that return a collection of entities. Using this feature, the clients can extract a selected set of records using comparison operators on attributes of the model entity behind the collection. The relevant URI sections contain the information about the attributes and the operators that support filtering.

https://<IP address>/redfish/v1/sfss/<Instance #>/<API>

Where:

- <IP address> is the location of the API; for example, 10.10.10.10 or xx.xx.xx.xx.
- <API> is the name of the API; for example, DNS.

Data pagination

The console software provides pagination options on certain URIs that return a collection of entities. The pagination options enable the clients to get paginated results. If a URI supports pagination, the relevant URI sections indicate it.

Request headers

The request header represents headers in the client HTTPS request that communicate client-preferences to the service end point. The service provides the supported preference in the response header.

Table 5. Examples of request headers

Request header	Description	Example
	Choice of language that the client can request—Optional.	Accept-Language: en

Response codes and headers

For synchronous operations, the server returns HTTP response codes 200 or 204. For operations that take a long time, the server returns a status code of 202 along with an HTTP response header (Location). This response corresponds to the URI of the temporary resource that can be used to monitor the operation.

Table 6. HTTPS response codes

Request	Response code
Success codes	

Table 6. HTTPS response codes (continued)

Request	Response code			
GET	 200—OK with message body 204—OK with no message body 206—OK with partial message body 			
POST	201—Resource created; operation complete202—Resource accepted; operation pending			
PUT	202—Accepted; operation pending204—Success; operation complete			
DELETE	202—Accepted; operation pending204—Success; operation complete			
Failure codes				
Invalid parameter	400—Invalid parameter			
Authorization	401—Authorization failure			
Permission denied	403—Permission denied			
Not found	404—Resource not found			
Invalid request method	405—Invalid request method			
Internal server error	500—Internal server error			
Service unavailable	503—Service unavailable			

Response headers

The following table lists a few examples of response headers:

Table 7. Examples of response headers

Response headers	Description	Example
Connection	Control options for the current connection and list of hop-by-hop request fields.	Connection: Keep-Alive
Content-Type	Specifies the format of the content that the server returns. If there are multiple formats that can be accepted in the client request (using the Accept header), the server chooses the appropriate supported format.	Content-Type: application/json; odata.metadata=minimal
Keep-alive	 Timeout header parameter indicates the time that a connection is allowed to remain idle before it is closed. Max header parameter indicates the maximum number of requests that are permitted before the connection is closed. 	Timeout=5; max=150
Content-length	The length of the request body in 8-bit bytes or octets.	Content-Length: 348
Date	The date and time that the message originated, in HTTP-date format as defined by RFC 7231 Date/Time Formats.	date: Thu, 02 Apr 2009 11:11:28 GMT
Odata-version	The version of Odata that is used.	Odata: 4.0

Table 7. Examples of response headers (continued)

Response headers	Description	Example
Location	Used in redirection or when a new resource is created.	Location: <base_uri>/SessionService/ Sessions('3204bb9d-409d-4bd9-8a5f- d44005c81a2c')</base_uri>
Server	A name for the server.	Server: Apache
x-frame-options	Clickjacking protection: deny—no rendering within a frame sameorigin—no rendering if origin mismatch allow-from—allow from specified location allowall—non-standard, allow from any location	DENY

APP REST APIS

APP REST APIs

The following are APP REST APIs.

Topics:

- APP for Alerts
- APP for Backups
- APP for CDCHealthStatus
- APP for CDCInstanceManagers
- APP for Events
- APP for FabricManagerInfo
- APP for FoundationalConfigs
- APP for GlobalSettings
- APP for IPAddressManagement
- APP for License
- APP for Partner License
- APP for Restores
- APP for Security
- APP for SFSS APP
- APP for SFSSHealthStatus
- APP for SFSSImages
- APP for SFSS Interface List
- APP for SOS Reports
- APP for UserActivityAudit

APP for Alerts

APP for Alerts

POST APP for Alerts

Description Creates or updates APP Alerts.

Privilege SysAdmin

Method POST method for SFSS APP Alerts.

URL https://</Paddress>/redfish/v1/SFSSApp/Alerts

Example

```
{
    "Protocol": "redfish",
    "Context": "SomeSubscription",
    "EventTypes": [
          "Alert"
    ],
    "CdcInstances": [
          "APP"
    ],

"HttpHeaders": [
          "Authorization: Basic ZG52dXNlcjpAIThwSU1vSQ==",
```

```
"ExternalServerRequiredHeader: ItsValue"
],
"Destination": "https://[ipv4/ipv6]/external/Server/eventHandler"
}
```

HTTP response

```
{"Identifier"="uuid1"}
HttpStatusCode: 201
```

PUT APP for Alerts

Description Changes the alerts APP.

Privilege SysAdmin

Method PUT method for alerts. The ('uuid1') in the URL and example is the alert identifier.

URL https://<IP address>/redfish/v1/SFSSApp/Alerts('identifier')

Example

```
"Protocol": "redfish",

"Identifier": "uuid",

"Context": "NewSubscription",
"EventTypes": [
        "Alert"
        ],
"CdcInstances": [
        "APP"
        ],

"HttpHeaders": [
        "Authorization: Basic ZG52dXNlcjpAIThwSUlvSQ==",
        "ExternalServerRequiredHeader: ItsValue"
        ],
        "Destination": "https://[ipv4/ipv6]/external/Server/NeweventHandler"
}
```

HTTP response

```
{"Identifier"="uuid1"}
HttpStatusCode: 201
```

DELETE APP for Alerts

Description Deletes Alerts.

Privilege SysAdmin

Method DELETE method for APP SFSS alerts. The ('uuid1') in the URL and example is the alert identifier.

URL • https://<IP address>/redfish/v1/SFSSApp/Alerts(uuid1)

HTTP response

```
{"Identifier"="uuid1"}
HttpStatusCode: 201
```

GET APP for Alerts

Description

Retrieves Alerts APP information.

Privilege

SysAdmin

Method

GET method for the SFSS APP Alerts. The ('uuid') in the URL and example is the alert identifier.

URLs

- https://<IP address>/redfish/v1/SFSSApp/Alerts
- https://<IP address>/redfish/v1/SFSSApp/Alerts('uuid')

Examples

```
"Alerts": [
"@odata.id": "/redfish/v1/SFSSApp/Alerts('uuid')"
"Alerts@odata.count": 1,
"@odata.id": "/redfish/v1/SFSSApp/Alerts",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#Alertss",
"@odata.type": "#AlertsCollection.AlertsCollection"
```

Example including the identifier.

```
"Identifier": "uuid",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Alerts/Alerts/
$entity",
    "@odata.id": "/redfish/v1/SFSSApp/Alerts('uuid')",
"Protocol": "redfish",
    "Context": "SomeSubscription",
    "EventTypes": [
        "Alert"
   ],
"@odata.type": "#Alerts.Alerts",
    "HttpHeaders": [
         "Authorization: Basic ZG52dXNlcjpAIThwSU1vSQ==",
        "ExternalServerRequiredHeader: ItsValue"
    "Destination": "https://[ipv4/ipv6]/external/Server/eventHandler"
```

APP for Backups

APP for Backups

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

POST APP for Backup

Description Creates or updates the Backup APP.

Privilege SysAdmin

Method POST method for Backup.

URL https://<IP address>/redfish/v1/SFSSApp/Backups

Example

HTTP response

```
HTTP Response Code 201
{
"ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef"
}
```

GET APP for Backups

Description

Retrieves backup APP information.

Privilege

SysAdmin

Method

GET method for backup information.

URLs

- https://<IP address>/redfish/v1/SFSSApp/Backups
- https://<IP address>/redfish/v1/SFSSApp/Backups?\$expand=Backups
- https://<IP address>/redfish/v1/SFSSApp/Backups('d25d9f7e-8ae0-490a-94fe-071e8asdef')

Examples

Expand example

```
"Backups": [
            "ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef",
            "ImageServerLocation": "xxx.xx.xx.xx:/home/dell/
temp images/",
            "StatusMessage": "Successfully backed up",
            "ImageServerPassword": "force10",
            "Status": "Success",
            "TimeStamp": "1626734910.8032453",
            "TransportType": "SCP",
"ImageServerUserName": "dell",
            "@odata.id": "/redfish/v1/SFSSApp/
Backups('d25d9f7e-8ae0-490a-94fe-071e8asdef')",
            "@odata.type": "#Backups.Backups",
            "@odata.context": "/redfish/v1/SFSSApp/$metadata#Backups/
Backups/$entity"
    "Backups@odata.count": 1,
    "@odata.id": "/redfish/v1/SFSSApp/Backups?$expand=Backups",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Backups",
```

```
"@odata.type": "#BackupsCollection.BackupsCollection"
}
```

ID example

```
{
    "ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef",
    "ImageServerLocation": "xxx.xx.xx.xxx.xxx./home/dell/
temp_images/",
    "StatusMessage": "Successfully backed up",
    "ImageServerPassword": "force10",
    "Status": "Success",
    "TimeStamp": "1626734910.8032453",
    "TransportType": "SCP",
    "ImageServerUserName": "dell",
    "@odata.id": "/redfish/v1/SFSSApp/
Backups('d25d9f7e-8ae0-490a-94fe-071e8asdef')",
    "@odata.type": "#Backups.Backups",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Backups/
Backups/$entity"
}
```

APP for CDCHealthStatus

APP for CDCHealthStatus

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

GET APP for CDCHealthStatus

Description

Retrieves CDC health status APP information.

Privilege

SysAdmin

Method

GET method for CDC health status information.

URLs

- https://<IP address>/redfish/v1/SFSSApp/CDCHealthStatus
- https://</P address>/redfish/v1/SFSSApp/CDCHealthStatus('InstanceIdentifier')

Examples

Instanceldentifier example

```
"Health": "Yellow",
    "ReasonCode": [
        "offline"
],
    "InstanceIdentifier": "1",
    "@odata.id": "/redfish/v1/SFSSApp/CDCHealthStatus('1')",
    "@odata.type": "#CDCHealthStatus.CDCHealthStatus",
```

```
"@odata.context": "/redfish/v1/SFSSApp/$metadata#CDCHealthStatus/
CDCHealthStatus/$entity"
}
```

APP for CDCInstanceManagers

APP for CDCInstanceManagers

POST APP for CDCInstanceManagers

Description Creates or updates APP CDC Instance managers.

Privilege SysAdmin

Method POST method for SFSS APP CDC Instance managers.

URL https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers

https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers (for embedded)

Example

```
{
"InstanceIdentifier": "1",
"Interfaces": ["ens192"],
"CDCAdminState": "Enable",
"DiscoverySvcAdminState": "Enable"
}
```

Example (for embedded)

```
{
"InstanceIdentifier": "1",
"ServiceNetworks": ["vn704", "vn804"],
"CDCAdminState": "Enable",
"DiscoverySvcAdminState": "Enable"
}
```

HTTP response

```
{
    "InstanceIdentifier": "1"
}
HttpStatusCode: 201
```

Example (for embedded)

```
{
    "InstanceIdentifier": "1"
}
HttpStatusCode: 201
```

PUT APP for CDCInstanceManagers

Description Changes the APP CDC Instance managers.

Privilege SysAdmin

Method PUT method for SFSS APP CDC Instance managers. The ("1") in the URL and example is the CDC

Instance identifier.

URL https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers("1")

Example

```
"InstanceIdentifier": "1",
   "Interfaces": ["ens192"],
   "CDCAdminState":"Enable",
   "DiscoverySvcAdminState":"Disable"
}
```

HTTP response

```
{
    "InstanceIdentifier": "1"
}
HttpStatusCode: 201
```

DELETE APP for CDCInstanceManagers

Description Deletes CDC Instance managers.

Privilege SysAdmin

Method DELETE method for APP SFSS CDC instance managers. The ('1') in the URL and example is the alert

identifier.

URL • https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers('1')

HTTP response

```
{
    "InstanceIdentifier": "1"
}
HttpStatusCode: 201
```

GET APP for CDCInstanceManagers

Description

Retrieves CDC Instance managers APP information.

Privilege

SysAdmin

Method

GET method for the SFSS APP CDC Instance managers. The ("1") in the URL and example is the CDC Instance identifier.

URLs

- https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers
- https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers('1')
- https://</P address>/redfish/v1/SFSSApp/CDCInstanceManagers('1') (for embedded)
- https://<IP address>/redfish/v1/SFSSApp/CDCInstanceManagers/Enums

Examples

Example including the identifier ('1').

```
{
    "CDCAdminState": "Enable",
```

```
"DiscoverySvcAdminState": "Enable",
"InstanceIdentifier": "1",
"Interfaces": [
        "ens161"
],
"IpAddresses": [
        "100.94.72.181"
],
"@odata.id": "/redfish/v1/SFSSApp/CDCInstanceManagers(\"1\")",
"@odata.type": "#CDCInstanceManagers.CDCInstanceManagers",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#CDCInstanceManagers/CDCInstanceManagers/$entity"
}
```

Example including the identifier ('1') for embedded

Example including Enums.

```
"CDCAdminState": [
    "Enable",
    "Disable"
],
    "DiscoverySvcAdminState": [
        "Enable",
        "Disable"
],
    "Status": [
        "INIT",
        "INPROGRESS",
        "SUCCESS",
        "FAIL",
        "ABORT"
]
```

APP for Events

APP for Events

NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

GET APP for Events

Description Retrieves event APP information.

Privilege SysAdmin

Method GET method for SFSS APP events.

• Use \$skip to get to the next record.

- Use CDCInstance as the filter logic.
- Use \$filter with pagination.

URLs

- https://<IP address>/redfish/v1/SFSSApp/Events
- https://</P address>/redfish/v1/SFSSApp/Events?\$top=2
- https://<IP address>/redfish/v1/SFSSApp/Events?\$filter=CDCInstance eq '1'
- https://<IP address>/redfish/v1/SFSSApp/Events('16')

Examples

All events records.

```
{
    "Events": [
         {
              "Args": [
                   "NQN1"
              "CDCInstance": "1",
              "EEMI": "SVEP0004",
              "HostName": "J104XC3",
"Message": "CDC Instance 1: Subsystem NQN1 is added.",
              "OriginOfCondition": [
                    "ZoneMember"
              "Severity": "Informational",
              "Source": "NZ-CENTRAL",
              "SourceSubType": "Zone"
              "timeStamp": "2021-05-18 16:36:25.353495",
"@odata.id": "/redfish/v1/SFSSApp/Events('17')",
              "@odata.type": "#Events.Events"
              "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
         },
              "Args": [
                   "1",
                   "NQN1"
              "CDCInstance": "1",
              "EEMI": "SVEP0004"
              "HostName": "J104XC3",
"Message": "CDC Instance 1: Subsystem NQN1 is added.",
               "OriginOfCondition": [
                   "ZoneMember"
              "Severity": "Informational",
"Source": "NZ-CENTRAL",
              "SourceSubType": "Zone",
              "timeStamp": "2021-05-14 15:08:07.864327",
"@odata.id": "/redfish/v1/SFSSApp/Events('16')",
              "@odata.type": "#Events.Events"
              "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
    "Events@odata.count": 17,
"@odata.id": "/redfish/v1/SFSSApp/Events",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events",
    "@odata.type": "#EventsCollection.EventsCollection"
}
```

Events skip. Use \$skip to get to the next record.

```
"CDCInstance": "1",
             "EEMI": "SVEP0004"
             "HostName": "J104XC3",
             "Message": "CDC Instance 1: Subsystem NQN1 is added.",
             "OriginOfCondition": [
"ZoneMember"
             "Severity": "Informational",
"Source": "NZ-CENTRAL",
             "SourceSubType": "Zone",
             "timeStamp": "2021-05-18 16:36:25.353495",
"@odata.id": "/redfish/v1/SFSSApp/Events('17')",
             "@odata.type": "#Events.Events"
             "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
             "Args": [
                  "NQN1"
             "CDCInstance": "1",
             "EEMI": "SVEP0004",
             "HostName": "J104XC3",
"Message": "CDC Instance 1: Subsystem NQN1 is added.",
             "OriginOfCondition": [
                  "ZoneMember"
             "SourceSubType": "Zone",
             "timeStamp": "2021-05-14 15:08:07.864327",
"@odata.id": "/redfish/v1/SFSSApp/Events('16')",
             "@odata.type": "#Events.Events"
             "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
    "Events@odata.count": 2,
    "@odata.id": "/redfish/v1/SFSSApp/Events?$top=2",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events",
    "@odata.type": "#EventsCollection.EventsCollection",
    "@odata.nextLink": "/redfish/v1/SFSSApp/Events?$top=2&$skip=2"}
```

Events filter. You can only use CDCInstance as a filter logic. You can use \$filter with pagination.

```
{
      "Events": [
           {
                 "Args": [
                       "1",
                       "NQN1"
                 "CDCInstance": "1",
                 "EEMI": "SVEP0004"
                 "HostName": "J104XC3",
"Message": "CDC Instance 1: Subsystem NQN1 is added.",
                 "OriginOfCondition": [
"ZoneMember"
                 ],
"Severity": "Informational",
"Source": "NZ-CENTRAL",
"SourceSubType": "Zone",
"" "2021-05-18 16:
                 "timeStamp": "2021-05-18 16:36:25.353495",
"@odata.id": "/redfish/v1/SFSSApp/Events('17')",
                 "@odata.type": "#Events.Events"
                 "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
            },
            {
                 "Args": [
```

```
"1".
                   "NQN1"
              "CDCInstance": "1",
              "EEMI": "SVEP0004"
              "HostName": "J104XC3",
"Message": "CDC Instance 1: Subsystem NQN1 is added.",
              "OriginOfCondition": [
                   "ZoneMember"
              "Severity": "Informational",
"Source": "NZ-CENTRAL",
              "SourceSubType": "Zone"
              "timeStamp": "2021-05-14 15:08:07.864327",
"@odata.id": "/redfish/v1/SFSSApp/Events('16')",
              "@odata.type": "#Events.Events"
              "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/
Events/$entity"
    "Events@odata.count": 17,
    "@odata.id": "/redfish/v1/SFSSApp/Events?
$filter=CDCInstance%20eq%20%271%27"
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events",
    "@odata.type": "#EventsCollection.EventsCollection"
```

Events filter by ID. In this example, the filter ID is 16.

```
"Args": [
    "1",
    "NQN1"
],
    "CDCInstance": "1",
    "EEMI": "SVEP0004",
    "HostName": "J104XC3",
    "Message": "CDC Instance 1: Subsystem NQN1 is added.",
    "OriginOfCondition": [
        "ZoneMember"
],
    "Severity": "Informational",
    "Source": "NZ-CENTRAL",
    "SourceSubType": "Zone",
    "timeStamp": "2021-05-14 15:08:07.864327",
    "@odata.id": "/redfish/v1/SFSSApp/Events('16')",
    "@odata.type": "#Events.Events",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Events/Events/
$entity"
}
```

APP for FabricManagerInfo

APP for FabricManagerInfo

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

POST APP for FabricManagerInfo

Description Creates or updates the fabric manager information.

Privilege SysAdmin

Method POST method for the fabric manager information. This API is for embedded.

URL https://</P address>/redfish/v1/SFSSApp/FabricManagerInfo

Example

```
{
"IPAddress": "fde2:53ba:e9a0:cccc:0:5eff:fe00:1100",
"AddrType": "INETV6",
"UserName":"admin",
"FabricType":"SFS"
}
```

HTTP response

```
{
    "IPAdress": "fde2:53ba:e9a0:cccc:0:5eff:fe00:1100"
}
```

GET API for FabricManagerInfo

Description

Retrieves fabric manager information and functionality.

Privilege

SysAdmin

Method

GET method for fabric manager functionality. This API is for embedded.

URLs

• https://<ip-address>/redfish/v1/SFSSApp/FabricManagerInfo

Examples

APP for FoundationalConfigs

APP for FoundationalConfigs

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

GET API for FoundationalConfigs

Description

Retrieves foundational configuration information and functionality.

Privilege

SysAdmin

Method

GET method for foundational configuration functionality.

URLs

- https://<ip-address>/redfish/v1/SFSSApp/FoundationalConfigs
- https://<ip-address>/redfish/v1/SFSSApp/FoundationalConfigs?\$expand=FoundationalConfigs
- https://<ip-address>/redfish/v1/SFSSApp/FoundationalConfigs('1')

Examples

```
{
"FoundationalConfigs": [
{
   "@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs('2')"
},
{
   "@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs('1')"
}
],
"FoundationalConfigs@odata.count": 2,
"@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#FoundationalConfigs",
"@odata.type":
"#FoundationalConfigsCollection.FoundationalConfigsCollection"
}
```

Expand example

```
"FoundationalConfigs": [
"DiscoveryControllerPort": "8009",
"InstanceIdentifier": "2",
"NQN": "nqn.1988-11.com.dell:SFSS:2:20210707135328e8",
"@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs('2')",
"@odata.type": "#FoundationalConfigs.FoundationalConfigs",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#FoundationalConfigs/
FoundationalConfigs/$entity"
"DiscoveryControllerPort": "8009", "InstanceIdentifier": "1",
"NQN": "nqn.1988-11.com.dell:SFSS:1:20210707023327e8",
"@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs('1')",
"@odata.type": "#FoundationalConfigs.FoundationalConfigs",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#FoundationalConfigs/
FoundationalConfigs/$entity"
"FoundationalConfigs@odata.count": 2,
"@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs?
$expand=FoundationalConfigs"
"@odata.context": "/redfish/v1/SFSSApp/$metadata#FoundationalConfigs",
"@odata.type":
"#FoundationalConfigsCollection.FoundationalConfigsCollection"
```

('1') example

```
{
"DiscoveryControllerPort": "8009",
"InstanceIdentifier": "1",
"NQN": "nqn.1988-11.com.dell:SFSS:1:20210707023327e8",
"@odata.id": "/redfish/v1/SFSSApp/FoundationalConfigs('1')",
"@odata.type": "#FoundationalConfigs.FoundationalConfigs",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#FoundationalConfigs/FoundationalConfigs/$entity"
}
```

APP for GlobalSettings

APP for GlobalSettings

APP REST APIS

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

PUT APP for GlobalSettings

Description Changes the global settings.

Privilege SysAdmin

Method PUT method for gloabl settings. This API is available only in the VM.

URL https://<IP address>/redfish/v1/SFSSApp/GlobalSettings

Example

```
"HostName": "dellemc-networkappliance",
    "ReservedIPV4SubnetPrefix": "172.20",
    "ReservedIPV6SubnetPrefix": "fd02"
}
```

HTTP response

```
HTTP Response Code 201
No response object
```

GET APP for Global Settings

Description Retrieves global setting APP information.

Privilege SysAdmin

Method GET method for SFSS APP global settings. This API is only available in the VM.

URLs

https://<IP address>/redfish/v1/SFSSApp/GlobalSettings

Examples

```
"HostName": "dellemc-networkappliance",
    "ReservedIPV4SubnetPrefix": "172.20.x.x",
    "ReservedIPV6SubnetPrefix": "fd02::x",
    "@odata.id": "/redfish/v1/SFSSApp/GlobalSettings",
    "@odata.type": "#GlobalSettings.GlobalSettings",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#GlobalSettings/
GlobalSettings/$entity"
}
```

APP for IPAddressManagement

APP for IPAddressManagement

POST APP for IP Address Management

Description Creates or updates the IP address management APP.

Privilege SysAdmin

Method POST method for the IP address management APP. You can only create a VLAN interface.

URL https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements

Example

```
"IPV4Config": "MANUAL",
                                               * If CONFTYPE is AUTOMATIC no
need to provide IPV4 Address Fields
    "IPV4Gateway": "xx.x.x.xxx",
    "IPV4PrefixLength": 16,
"IPV6Config": "MANUAL",
need to provide IPV4 Address Fields
                                               * If CONFTYPE is AUTOMATIC no
    "IPV6Address": [
           "fe80::1699:6f09:43dd:56c1"
                                                          * Eventhough the IP
address is a list only one address can provided
    "IPV6Gateway": "fe80::1699:6f09:43dd:ffff",
    "IPV6PrefixLength": 64,
    "ParentInterface": "ens160",
    "VlanId": 60,
"MTU": 9000 ## If this field is not present, the MTU is chosen as
auto
```

PUT APP for IpAddressManagement

Description Changes the IP address management.

Privilege SysAdmin

Method PUT method for the IP address management. You can only update the IP address. Both VLAN and

Ethernet interfaces can be updated.

URL https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements("ens160.60")

Example

```
"IPV4Address": [
        "xx.x.x.x"
],
"IPV4Config": "MANUAL",
"IPV4Gateway": "xx.x.x.x",
"IPV4PrefixLength": 16,
"IPV6Config": "MANUAL",

"IPV6Address": [
        "fe80::1699:6fff:43dd:56c1"
],

"IPV6Gateway": "fe80::1699:6f09:43dd:fffff",
"IPV6PrefixLength": 64,
"MTU": 7000 ## If this field is not present, the MTU is chosen as auto
}
```

DELETE APP for IpAddressManagement

Description Deletes IP address management information.

Privilege SysAdmin

Method DELETE method for IP address management information.

https://</P address>/redfish/v1/SFSSApp/lpAddressManagements('ens192.100')

HTTP response

HttpStatusCode: 200

GET APP for IpAddressManagement

Description

Retrieves IP address management APP information.

Privilege

SysAdmin

Method

GET method for the IP address manageement APP. This API is available only in the StandAlone deployment.

URLs

- https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements
- https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements?
 \$expand=lpAddressManagements
- https://<IP address>/redfish/v1/SFSSApp/IpAddressManagements/Enums
- https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements("ens160")
- https://<IP address>/redfish/v1/SFSSApp/lpAddressManagements("ens160.60")

Examples

```
"IpAddressManagements": [
       {
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens160')"
       },
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192')"
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens160.60')"
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.24')"
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.50')"
       },
        {
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.51')"
        },
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.20')"
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.21')"
       },
            "@odata.id": "/redfish/v1/SFSSApp/
IpAddressManagements('ens192.22')"
   "IpAddressMgmts@odata.count": 9,
   "@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements",
   "@odata.context": "/redfish/v1/SFSSApp/
$metadata#IpAddressManagements",
    "@odata.type": "#IpAddressMgmtsCollection.IpAddressMgmtsCollection"
```

Expanded example

```
"xxx.xx.xx.xx"
                      ],
"IPV4Config": "MANUAL",
                      "IPV4Gateway": "xxx.xx.xx.xxx",
                      "IPV4PrefixLength": 16,
                      "IPV6Address":
                              "fe80::1699:6f09:43dd:56c1"
                      ],
"IPV6Config": "AUTOMATIC",
32,
                      "IPV6PrefixLength": 32,
                      "MTU": 9000,
"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens160')",
"@odata.type": "#IpAddressManagements.IpAddressManagements",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/"
"@odata.context":
IpAddressManagements/$entity"
                      "Interface": "ens192",
"Type": "ETHERNET",
                      "IPV4Address": [
                             "xxx.xx.xx.
                      ],
"IPV4Config": "MANUAL",
"IPV4Gateway": "xxx.xx.xx.xxx4",
                      "IPV4PrefixLength": 24,
"IPV6Config": "AUTOMATIC",
"Interface": "ens160.60",
                      "Type": "VLAN",
"IPV4Address": [
"xx.x.x.x"
                      ],
"IPV4Config": "MANUAL",
                      "IPV4Gateway": "xx.x.xxx",
"IPV4PrefixLength": 16,
"IPV6Config": "AUTOMATIC",
                      "ParentInterface": "ens160",
"ParentInterface": "ens160",

"VlanId": 60,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens160.60')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                      "Interface": "ens192.24",
"Type": "VLAN",
"IPV4Address": [
                             "xxx.xxx.xxx"
                      ],
"IPV4Config": "MANUAL",
"IPV4Gateway": "xxx.xxx.xx",
                      "IPV6Address":
                             "ab13::cafe"
                      ],
"IPV6Config": "MANUAL",
                      "IPV6PrefixLength": 128,
"ParentInterface": "ens192",
"ParentInterface": "ens192",

"VlanId": 24,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.24')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                      "Interface": "ens192.50",
"Type": "VLAN",
"IPV4Address": [
                              "xxx.xxx.xx.xx"
                      "IPV4Config": "AUTOMATIC",
                      "IPV4PrefixLength": 24,
"IPV6Config": "AUTOMATIC
                      "ParentInterface": "ens192",
"VlanId": 50,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.50')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                      "Interface": "ens192.51",
```

30

```
"Type": "VLAN",
"IPV4Config": "AUTOMATIC",
"IPV6Config": "AUTOMATIC",
                               "ParentInterface": "ens192",
"VlanId": 51,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.51')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                              "Interface": "ens192.20",
"Type": "VLAN",
"IPV4Address": [
                                         "xxx.xxx.xxx"
                              ],
"IPV4Config": "MANUAL",
"IPV4Gateway": "xxx.xxx.xxx.x",
                              "IPV4PrefixLength": 24,
"IPV6Config": "AUTOMATIC",
"ParentInterface": "ens192",
"VlanId": 20,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.20')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                              "Interface": "ens192.21",
"Type": "VLAN",
"IPV4Address": [
                                          "xxx.xxx.xxx"
                              ],
"IPV4Config": "MANUAL",
"IPV4Gateway": "xxx.xxx.xxx.x",
"IPV4PrefixLength": 24,
"IPV6Config": "AUTOMATIC",
    "IPV6Config": "AUTOMATIC",
    "ParentInterface": "ens192",
    "VlanId": 21,
    "@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.21')",
    "@odata.type": "#IpAddressManagements.IpAddressManagements",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
                              "Interface": "ens192.22",
"Type": "VLAN",
"IPV4Address": [
                                         "xxx.xxx.xxx'
                              "IPV4Config": "MANUAL",
"IPV4Gateway": "xxx.xxx.xx.x",
"IPV4PrefixLength": 24,
"IPV6Config": "AUTOMATIC",
                               "ParentInterface": "ens192",
"VlanId": 22,

"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens192.22')",

"@odata.type": "#IpAddressManagements.IpAddressManagements",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements/
IpAddressManagements/$entity"
          ],
"IpAddressMgmts@odata.count": 9,
"@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements?$expand=IpAddressManagements",
"". "/redfish/v1/SFSSApp/$metadata#IpAddressManagements",
          "@odata.context": "/redfish/v1/SFSSApp/$metadata#IpAddressManagements", "@odata.type": "#IpAddressMgmtsCollection.IpAddressMgmtsCollection"
```

Enums example

```
"Type": [
    "ETHERNET",
    "VLAN"
],
"IPV4Config": [
    "AUTOMATIC",
    "MANUAL"
],
"IPV6Config": [
    "AUTOMATIC",
    "MANUAL"
]
```

Ethernet type of interface example ("ens160")

VLAN type of interface example ("ens160.60")

```
"Interface": "ens160.60",
   "Type": "VLAN",
   "IPV4Address": [
        "xx.x.x.x"
],
   "IPV4Config": "MANUAL",
   "IPV4FefixLength": 16,
   "IPV6Config": "AUTOMATIC",
   "ParentInterface": "ens160",
   "VlanId": 60,

   "MTU": 9000,
   "@odata.id": "/redfish/v1/SFSSApp/IpAddressManagements('ens160.60')",
   "@odata.type": "#IpAddressManagements.IpAddressManagements",
   "@odata.context": "/redfish/v1/SFSSApp/
$metadata#IpAddressManagements/IpAddressManagements/$entity"
}
```

APP for License

APP for License

POST APP for License

Description Creates or updates APP Licenses.

Privilege SysAdmin

Method POST method for SFSS APP licenses.

URL https://<IP address>/redfish/v1/SFSSApp/Licenses

Example

{
 "LicenseContent" :"XML-LicenseContent",

```
"LicenseFileName": "BaseLicense.lic"
}
```

HTTP response

```
{
"Identifier" : "1"
}
```

GET APP for License

Description

Retrieves License APP information.

Privilege

SysAdmin

Method

GET method for the SFSS APP Licenses. The ('licenseld') in the URL and example is the license identifier.

URLs

- https://<IP address>/redfish/v1/SFSSApp/Device
- https://<IP address>/redfish/v1/SFSSApp/Licenses
- https://<IP address>/redfish/v1/SFSSApp/Licenses('licenseld')

Examples

Device

```
"DeviceId": "20210521211812c9",
    "TotalNumOfEndPoints": 0,
    "@odata.id": "/redfish/v1/SFSSApp/Device",
    "@odata.type": "#Device.Device",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Device/Device/
$entity",
    "NumOfEndPointInUse": 0
}
```

Licenses

Example including the identifier.

```
"ServiceTag": "1234567",
    "TotalNumOfEndPoints": 48,
    "Identifier": "1",
    "LicenseType": "Perpetual",
    "LicenseExpiry": "0",
    "@odata.id": "/redfish/v1/SFSSApp/Licenses('1')",
    "@odata.type": "#Licenses.Licenses",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Licenses/Licenses/
$entity",
    "DeviceId": "20210413120527b6"
}
```

APP for Partner License

APP for Partner License

POST APP for Partner License

Description Creates or updates APP partner licenses.

Privilege SysAdmin

Method POST method for APP partner licenses.

URL https://

Example

```
"LicenseContent" :"XML-LicenseContent",

"LicenseFileName": "BaseLicense.lic"
}
```

HTTP response

"Identifier": "2", "EULA": "This End User License Agreement ("EULA") is between the individual consumer or business entity that will use the Software ("You") and the applicable entity identified in the "Licensor Table" located at www.dell.com/swlicensortable ("Licensor").\n\nThis EULA governs Your use of: (a) the object code version of Dell branded software that is preinstalled on Dell hardware or otherwise provided to You pursuant to a purchase contract, quote, order form, invoice or online procurement process (each, an "Order"); (b) associated software license keys, if any ("License Keys"); $\n(c)$ updates to such software ("Updates"); (d) the documentation for such software; and (e) all copies of the foregoing (collectively, "Software"). If You accept this EULA, or if You install or use the Software, then You agree to this EULA unless You already have a signed agreement with Dell Marketing L.P. or one of its affiliates ("Dell") that includes licensing terms that govern Your use of the Software ("Pre-Existing Agreement"). If You accept this EULA or install or use the Software on behalf of a business entity, then You represent that You have authority to take those actions, and this EULA will be binding on that business entity unless the entity already has a Pre-Existing Agreement. If You do not agree to this EULA, do not install or use the Software.\n\nIf You are a business entity and You purchase Software from a third party ("Reseller") who sublicenses the Software to You under the terms of an agreement between You and such Reseller (a "Sublicense Agreement"), then the terms of Your Sublicense Agreement with the Reseller shall govern Your use of the Software and not this EULA. Resellers may only grant rights, and must pass through conditions, consistent with this EULA. Thus, even though Your Sublicense Agreement is between you and the Reseller, by installing or using the Software, You acknowledge and agree that: (a) any license rights in the Sublicense Agreement that are greater than the license rights in this EULA shall not apply; (b) any license conditions in this EULA that are not contained in the Sublicense Agreement apply to You; (c) the limitations of liability set forth in this EULA will apply in favor of Licensor, its affiliates and suppliers despite the existence of a Sublicense Agreement; and (d) Licensor is a third-party beneficiary of the Sublicense Agreement and is entitled to exercise and enforce all of the Reseller's rights and benefits under that Sublicense Agreement. \n in \n You purchase Software as an individual consumer, nothing in this EULA affects your statutory rights if the laws of your state or country do not permit it to do so.\n\n1. License Grant.\n\n1.1. Right to Use. Subject to and in consideration of your full compliance with the terms and conditions of this EULA, Licensor grants to You a personal, nonexclusive license to use the Software during the period stated in the

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The limitations, exclusions and disclaimers set forth in a Pre-Existing Agreement or Dell Terms of Sale that applies your Order (in each case, the "Order Terms") shall apply to all disputes, claims or controversies (whether in contract, tort or otherwise) between You and Licensor or Dell related to or arising out of: (a) this EULA; (b) the breach, termination or validity of this EULA; or (c) any Orders (each, a "Dispute"). In the absence of applicable Order Terms, the terms set forth in this Section shall apply to all Disputes. $\n \n$ hat terms of this Section are agreed allocations of risk constituting part of the consideration for Licensor's licensing of Software to You and will apply even if there is a failure of the essential purpose of any limited remedy, and regardless of whether a party has been advised of the possibility of the liabilities. 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Except as stated in this Section, all claims must be made within the period specified by applicable law. If the law allows the parties to specify a shorter period for bringing claims, or the law does not provide a time at all, then claims must be made within 18 months after the cause of action accrues.\n\n13. Additional Terms.\n\n13.1. Notices. The parties will provide all notices under this EULA in writing. Unless provided otherwise in an Order, You must provide notices to the local Dell entity in Your Order, or, if Your Order is not with a Dell entity, by e-mail to Dell_Legal_Notices@dell.com.\n\n13.2. Waiver and Severability. Failure to enforce a provision of this EULA will not constitute a waiver of that or any other provision of this EULA. If a court of competent jurisdiction determines that any part of this EULA or document that incorporates this EULA by reference is unenforceable, that ruling will not affect the validity of all remaining parts. $\n\n\$ 3.3. Modifications. 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Subject to Section 13.4 D, if You are domiciled outside of the United States or Canada: (1) this EULA and any Dispute is governed by the substantive laws in force in the country in which the Licensor is located (as indicated in the Licensor Table located at www.dell.com/swlicensortable), without regard to its conflict of law rules; and (2) the exclusive place of jurisdiction for any Dispute shall be in such country. $\n\n$ C. In any event, neither the U.N. Convention on Contracts for the International Sale of Goods, nor the Uniform Computer Information Transaction Act shall apply to this EULA or any Dispute. \n If You are an individual consumer, this Section 13.4 does not deprive You of the protection afforded to You by the provisions of mandatory consumer protections laws that are applicable to You, nor does it prevent you from seeking remedies or enforcing your rights as a consumer under such laws.\n\n13.5. Dispute Resolution and Binding Individual (non-class) Arbitration. 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If You reside in (or obtained the Software in) Canada, arbitration will be at ADR Chambers pursuant to the general ADR Chambers Rules for Arbitration located at www.adrchambers.com. The arbitration shall be conducted in the English language. The arbitration panel shall have exclusive authority to resolve any arbitrability issues including any dispute over this EULA or this arbitration provision's scope, application, meaning and enforceability. The arbitration panel shall be empowered to grant whatever relief would be available in court, including without limitation preliminary relief, injunctive relief and specific performance. Any award of the arbitration panel shall be final and binding immediately when rendered, and judgment on the award may be entered in any court of competent jurisdiction. If any portion of this arbitration agreement is found unenforceable, the unenforceable portion shall be severed and the remaining arbitration terms shall be enforced (but in no event will there be a class arbitration). Consumer claimants (individuals whose transaction is intended for personal, family or household use) may elect to pursue their claims in small-claims court rather than arbitration. Licensor will be responsible for paying any individual consumer's arbitration/arbitrator fees. Notwithstanding the foregoing, Licensor may apply to any relevant government agency or any court of competent jurisdiction to preserve its rights under this EULA and to obtain any injunctive or preliminary relief, or any award of specific performance, to which it may be entitled, either against You or against a non-party; provided, however, that no such administrative or judicial authority shall have the right or power to render a judgment or award (or to enjoin the rendering of an arbitral award) for damages that may be due to or from either party under this EULA, which right and power shall be reserved exclusively to an arbitration panel proceeding in accordance herewith.\n\n13.6. Third Party Rights. Other than as expressly set out in this EULA, this EULA does not create any rights for any person who is not a party to it, and no person who is not a party to this EULA may enforce any of its terms or rely on any exclusion or limitation contained in it.\n\n13.7 Entire Agreement. You acknowledge that You have read this EULA, that You understand it, that You agree to be bound by its terms, and that this EULA, along with the Order Terms into which this EULA may be incorporated (as applicable), is the complete and exclusive statement of the agreement between You and Licensor regarding Your use of the Software. All content referenced in this EULA by hyperlink is incorporated into this EULA in its entirety and is available to You in hardcopy form upon Your request. The preprinted terms of Your purchase order or any other document that is not issued or signed by Licensor or Dell do not apply to Software. You represent that You did not rely on any representations or statements that do not appear in this EULA when accepting this EULA. $\n\n\n$ EULA rev 24FEB2020)"

GET APP for Partner License before acceptance from user

Description

Retrieves partner license information before acceptance from the user.

Privilege

SysAdmin

Method

GET method for the partner license before acceptance from the user.

URLs

• https://<IP address>/redfish/v1/SFSSApp/Licenses?\$expand=Licenses

Examples

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provisions set forth in Your Order Terms shall apply to this EULA. Otherwise the following shall apply: $\n\nA$. Subject to Section 13.4 D and 13.5, if You are domiciled in the United States or Canada: (1) this EULA and any Dispute is governed by the laws of the State of Texas (excluding the conflicts of law rules) and the federal laws of the United States; and (2) to the extent permitted by law, the state and federal courts located in Texas will have exclusive jurisdiction for any Dispute. Both parties agree to submit to the personal jurisdiction of the state and federal courts located within Travis or Williamson County, Texas, and agree to waive any and all objections to the exercise of jurisdiction over the parties by those courts and to venue in those courts.\n\nB. Subject to Section 13.4 D, if You are domiciled outside of the United States or Canada: (1) this EULA and any Dispute is governed by the substantive laws in force in the country in which the Licensor is located (as indicated in the Licensor Table located at www.dell.com/swlicensortable), without regard to its conflict of law rules; and (2) the exclusive place of jurisdiction for any Dispute shall be in such country. $\n\n$ C. In any event, neither the U.N. Convention on Contracts for the International Sale of Goods, nor the Uniform Computer Information Transaction Act shall apply to this EULA or any Dispute. \n . If You are an individual consumer, this Section 13.4 does not deprive You of the protection afforded to You by the provisions of mandatory consumer protections laws that are applicable to You, nor $\frac{1}{2}$ does it prevent you from seeking remedies or enforcing your rights as a consumer under such laws. $\n\n13.5$. Dispute Resolution and Binding Individual (non-class) Arbitration. This Section only applies if You are an individual consumer that resides in (or obtained the Software in) the United States or Canada. All Disputes shall be resolved exclusively and finally by binding individual arbitration. This means You and Licensor waive any right to litigate disputes in a court or before a jury and neither You nor Licensor shall be entitled to join, consolidate, or include any claims belonging to or alleged or arising from, by or on behalf of any third party to an arbitration brought hereunder, or to arbitrate any claim as a class action, class representative, class member, or in a private attorney general capacity. If You reside in (or obtained the Software in) the United States, the arbitration will be administered by the American Arbitration Association (AAA), or JAMS. If You reside in (or obtained the Software in) Canada, arbitration will be at ADR Chambers pursuant to the general ADR Chambers Rules for Arbitration located at www.adrchambers.com. The arbitration shall be conducted in the English language. The arbitration panel shall have exclusive authority to resolve any arbitrability issues including any dispute over this EULA or this arbitration provision's scope, application, meaning and enforceability. The arbitration panel shall be empowered to grant whatever relief would be available in court, including without limitation preliminary relief, injunctive relief and specific performance. Any award of the arbitration panel shall be final and binding immediately when rendered, and judgment on the award may be entered in any court of competent jurisdiction. If any portion of this arbitration agreement is found unenforceable, the unenforceable portion shall be severed and the remaining arbitration terms shall be enforced (but in no event will there be a class arbitration). Consumer claimants (individuals whose transaction is intended for personal, family or household use) may elect to pursue their claims in small-claims court rather than arbitration. Licensor will be responsible for paying any individual consumer's arbitration/arbitrator fees. Notwithstanding the foregoing, Licensor may apply to any relevant government agency or any court of competent jurisdiction to preserve its rights under this EULA and to obtain any injunctive or preliminary relief, or any award of specific performance, to which it may be entitled, either against You or against a non-party; provided, however, that no such administrative or judicial authority shall have the right or power to render a judgment or award (or to enjoin the rendering of an arbitral award) for damages that may be due to or from either party under this EULA, which right and power shall be reserved exclusively to an arbitration panel proceeding in accordance herewith. $\n 13.6$. Third Party Rights. Other than as expressly set out in this EULA, this EULA does not create any rights for any person who is not a party to it, and no person who is not a party to this EULA may enforce any of its terms or rely on any exclusion or limitation contained in it.\n\n13.7 Entire Agreement. You acknowledge that You have read this EULA, that You understand it, that You agree to be bound by its terms, and that this EULA, along with the

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```
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"ServiceTag": "ABCDEFG",

"DeviceId": "20210624140433e8"

}

],

"Licenses@odata.count": 1,

"@odata.id": "/redfish/v1/SFSSApp/Licenses?$expand=Licenses",

"@odata.context": "/redfish/v1/SFSSApp/$metadata#Licenses",

"@odata.type": "#LicensesCollection.LicensesCollection"
}
```

GET APP for Partner License after acceptance from user

Description Retrieves partner license information after acceptance from the user.

Privilege SysAdmin

Method GET method for the partner license after acceptance from the user.

URLs
https://<IP address>/redfish/v1/SFSSApp/Licenses('2')

Examples

```
{
    "Identifier": "2",
    "LicenseType": "Perpetual",
    "TotalNumOfEndPoints": 10,
    "EULA": "Accepted",
    "ServiceTag": "ABCDEFG",
    "@odata.id": "/redfish/v1/SFSSApp/Licenses('2')",
    "@odata.type": "#Licenses.Licenses",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Licenses/Licenses/
$entity",
    "DeviceId": "20210624140433e8"
}
```

APP for Restores

APP for Restores

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

POST APP for Restore

Description Creates or updates the restore APP.

Privilege SysAdmin

Method POST method for Restore.

URL https://</P address>/redfish/v1/SFSSApp/Restores

Example

```
{
    "ImageServerLocation": "xxx.xx.xx.xx:/home/dell/temp_images/
backup file.tar.gz",
```

```
"ImageServerPassword": "force10",
"TransportType": "SCP",
"ImageServerUserName": "dell"
}
```

HTTP response

```
HTTP Response Code 201
{
"ID": "d25d9f7e-8ae0-490a-94fe-071e8b2fdf60"
}
```

GET APP for Restores

Description

Retrieves restore APP information.

Privilege

SvsAdmin

Method

GET method for restore information.

URLs

- https://<IP address>/redfish/v1/SFSSApp/Restores
- https://<IP address>/redfish/v1/SFSSApp/Restores?\$expand=Restores
- https://</P address>/redfish/v1/SFSSApp/Restores('d25d9f7e-8ae0-490a-94fe-071e8b2fdf60')

Examples

Expand example

```
"Restores": [
             "ID": "d25d9f7e-8ae0-490a-94fe-071e8b2fdf60",
             "ImageServerLocation": "xxx.xx.xx.xx:/home/dell/temp images/
backup_file.tar.gz",
             "StatusMessage": "Successfully restored",
             "ImageServerPassword": "force10",
             "Status": "Success"
             "TimeStamp": "1626334910.8032453",
             "TransportType": "SCP",
"ImageServerUserName": "dell",
             "@odata.id": "/redfish/v1/SFSSApp/
Restores('d25d9f7e-8ae0-490a-94fe-071e8b2fdf60')",
             "@odata.type": "#Restores.Restores",
             "@odata.context": "/redfish/v1/SFSSApp/$metadata#Restores/
Restores/$entity"
        }
    "Restores@odata.count": 1,
"@odata.id": "/redfish/v1/SFSSApp/Restores?$expand=Restores",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Restores",
    "@odata.type": "#RestoresCollection.RestoresCollection"
```

ID example

```
{
    "ID": "d25d9f7e-8ae0-490a-94fe-071e8b2fdf60",
    "ImageServerLocation": "xxx.xx.xxx.xxx:/home/dell/temp_images/
some_uuid.tar.gz",
    "StatusMessage": "Successfully restored",
    "ImageServerPassword": "force10",
    "Status": "Success",
    "TimeStamp": "1626334910.8032453",
    "TransportType": "SCP",
    "ImageServerUserName": "dell",
    "@odata.id": "/redfish/v1/SFSSApp/
Restores('d25d9f7e-8ae0-490a-94fe-071e8b2fdf60')",
    "@odata.type": "#Restores.Restores",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#Restores/Restores/
$entity"
}
```

APP for Security

APP for Security

POST APP for Security

Description

Creates or updates APP security.

Privilege

SysAdmin

Method

POST method for SFSS APP security. To reset security, use the POST or PUT APP method. For "AuthenticationSequence," the values are local, radius, and tacacs+.

URL

- https://<IP address>/redfish/v1/SFSSApp/AuthenticationSequence
- https://</P address>/redfish/v1/SFSSApp/TacacsServer
- https://<IP address>/redfish/v1/SFSSApp/RadiusServer

Example

Authentication sequence

```
{
"AuthenticationSequence": [
         "tacacs+",
         "local"
    ],
}
```

Tacacs server

```
{
"ServerIp": "xxx.x.x.x",
"ServerPass": "xxxxxxx"
}
```

Radius server

```
{
"ServerIp": "xxx.x.x.x",
"ServerPass": "xxxxxxx"
}
```

HTTP response

```
{
    "AuthenticationSequence": "tacacs+,local"
}
```

DELETE APP for Security

Description Deletes security information.

Privilege SysAdmin

Method DELETE method for APP SFSS security. There is no delete APP for Authentication Sequence. To

reset, use the POST or PUT method with input as local.

https://<IP address>/redfish/v1/SFSSApp/Tacacsservers("serverip":"xxx.xx.x.x")

• https://<IP address>/redfish/v1/SFSSApp/Radiusservers("serverip":"xxx.xx.x.x")

HTTP response Tacacs server

```
HttpStatusCode: 201
```

Radius server

HttpStatusCode: 201

GET APP for Security

Description Retrieves security APP information.

Privilege SysAdmin

Method GET method for the SFSS APP security. The "TacacsServers/Sequence" and "RadiusServers/Sequence"

APPs return the server IP addresses in the same order of your configuration.

URLs • https://<IP address>/redfish/v1/SFSSApp/AuthenticationSequence

• https://</P address>/redfish/v1/SFSSApp/AuthenticationSequence/Enums

• https://</P address>/redfish/v1/SFSSApp/TacacsServers

• https://<IP address>/redfish/v1/SFSSApp/TacacsServers('ip')

• https://<IP address>/redfish/v1/SFSSApp/TacacsServers/Sequence

• https://<IP address>/redfish/v1/SFSSApp/RadiusServers

• https://<IP address>/redfish/v1/SFSSApp/RadiusServers('200.1.1.1')

• https://<IP address>/redfish/v1/SFSSApp/RadiusServers/Sequence

Examples

Authentication sequence

```
{
    "AuthenticationSequence": [
        "tacacs+",
        "local"
],
    "@odata.id": "/redfish/v1/SFSSApp/AuthenticationSequence",
    "@odata.type": "#AuthenticationSequence.AuthenticationSequence",
    "@odata.context": "/redfish/v1/SFSSApp/
$metadata#AuthenticationSequence/AuthenticationSequence/$entity"
}
```

Enums

Tacacs servers

TacacsServers('ip')

```
"ServerIp": "xxx.x.x.x",
    "ServerPass": "xxxxxxx",
    "@odata.id": "/redfish/v1/SFSSApp/TacacsServers('xxx.x.x.x')",
    "@odata.type": "#TacacsServers.TacacsServers",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#TacacsServers/
TacacsServers/$entity"
}
```

Radius servers

RadiusServers('200.1.1.1')

```
"ServerIp": "xx.x.x.x",
    "ServerPass": "xxxxxx",
    "@odata.id": "/redfish/v1/SFSSApp/RadiusServers(\"xxx.x.x.x\")",
    "@odata.type": "#RadiusServers.RadiusServers",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#RadiusServers/
RadiusServers/$entity"
}
```

APP for SFSS APP

APP for SFSS APP

PUT APP for SFSSApp (Upgrade)

Description Changes the SFSSApp (Upgrade) feature.

Privilege SysAdmin

Method PUT method for the SFSSApp (Upgrade) feature.

URL https://<IP address>/redfish/v1/SFSSApp

Example

```
{
    "Version": "1.2.0"
}
```

GET APP for SFSSApp

Description Retrieves SFSS APP information.

Privilege SysAdmin

Method GET method for the SFSS APP.

URLs
https://<IP address>/redfish/v1/SFSSApp

Example

```
"DeploymentModel": "StandAlone",
   "Version": "1.0.0",
   "@odata.id": "/redfish/v1/SFSSApp",
   "@odata.type": "#SFSSApp.SFSSApp",
   "@odata.context": "/redfish/v1/$metadata#SFSSApp/$FSSApp/$entity"
}
```

APP for SFSSHealthStatus

APP for SFSSHealthStatus

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

GET APP for SFSSHealthStatus

Description Retrieves SFSS health status APP information.

Privilege SysAdmin

Method GET method for SFSS health status information.

URLs
https://<IP address>/redfish/v1/SFSSApp/SFSSHealthStatus

Examples

```
{
    "Health": "Yellow",
    "ReasonCode": [
         "Instance: instance1 module-testing reported:eemi-2"
    ],
        "@odata.id": "/redfish/v1/SFSSApp/SFSSHealthStatus",
         "@odata.type": "#SFSSHealthStatus.SFSSHealthStatus",
        "@odata.context": "/redfish/v1/SFSSApp/$metadata#SFSSHealthStatus/
SFSSHealthStatus/$entity"
}
```

APP for SFSSImages

APP for SFSSImages

POST APP for SFSSImages

Description Creates or updates APP SFSS images.

Privilege SysAdmin

Method POST method for the SFSS image APP.

• https://<IP address>/redfish/v1/SFSSApp/SFSSImages

Example Authentication sequence

```
"Version": "1.2.0",
    "ImageServerUserName" : "dell",
    "ImageServerPassword" : "force10",
    "ImageServerLocation" : "xxx.xx.xxx:/home/dell/temp_images/
SFSS-1.2.0.deb",
    "TransportType" : "SCP"
}
```

HTTP response

```
{
   "Version": "1.2.0"
}
```

PUT APP for SFSSImages

Description Creates or updates APP SFSS images.

Privilege SysAdmin

Method PUT method for SFSS images APP.

https://<IP address>/redfish/v1/SFSSApp/SFSSImages("1.2.0")

Example

```
"Version": "1.2.0",
    "ImageServerUserName" : "dell",
    "ImageServerPassword" : "New_Password",
    "ImageServerLocation" : "xxx.xx.xxx:/home/dell/new_location/
SFSS-1.2.0.deb",
    "TransportType" : "SCP"
}
```

HTTP response

```
{
    "Version": "1.2.0"
}
```

DELETE APP for SFSSImages

Description Deletes SFSS image information.

Privilege SysAdmir

Method DELETE method for APP SFSS images.

• https://<IP address>/redfish/v1/SFSSApp/SFSSImages("1.2.0")

HTTP response

```
{
    "Version": "1.2.0"
}
```

GET APP for SFSSImages

Description

Retrieves SFSSImage APP information.

Privilege

SysAdmin

Method

GET method for the SFSS APP SFSSImages. The ('latest') in the URL and example is the CDC image identifier.

URLs

- https://<IP address>/redfish/v1/SFSSApp/SFSSImages
- https://<IP address>/redfish/v1/SFSSApp/SFSSImages('1.0.0')
- https://<IP address>/redfish/v1/SFSSApp/SFSSImages/Enums

Examples

Example including the identifier.

```
"ImageServerLocation": "somelocation",
    "ImageServerPassword": "******",
    "TransportType": "SCP",
    "ImageServerUserName": "",
    "Version": "1.0.0",
    "@odata.id": "/redfish/v1/SFSSApp/SFSSImages('1.0.0')",
    "@odata.type": "#SFSSImages.SFSSImages",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#SFSSImages/
SFSSImages/$entity"
}
```

Example including Enums.

```
"Status": [
    "Failure",
    "InProgress",
    "Success",
    "NotStarted"
],
   "TransportType": [
        "SFTP",
        "HTTPS",
        "SCP",
        "HTTP"
]
```

APP for SFSS Interface List

APP for SFSS Interface List

GET APP for SFSS Inteface List

Description Retrieves SFSS interface list information.

Privilege SysAdmin

Method GET method for SFSS inteface list information. This API does not support expand or fetching using keys;

for example, using a specific interface as a key. This API retrieves the list of interfaces available in a

StandAlone deployment only.

URLs

https://<IP address>/redfish/v1/SFSSApp/SFSSInterfaceList

Examples

```
{
    "List of Interfaces": ['ens160', 'ens192', 'ens192.15', 'ens192.20']
}
```

APP for SOS Reports

APP for SOS Reports

GET APP for SOS Reports

Description Retrieves SFSS inteface SOS report information.

Privilege SysAdmin

Method GET method for SFSS inteface SOS report information.

URLshttps://<IP address>/redfish/v1/SFSSApp/SosReports

- https://<IP address>/redfish/v1/SFSSApp/SosReports?\$expand=SosReports
- https://<IP address>/redfish/v1/SFSSApp/SosReports('d25d9f7e-8ae0-490a-94fe-071e8asdef')

Examples

```
{
"SosReports": [
{
"@odata.id": "/redfish/v1/SFSSApp/
SosReports('d25d9f7e-8ae0-490a-94fe-071e8asdef')"
}
],
"SosReports@odata.count": 1,
"@odata.id": "/redfish/v1/SFSSApp/SosReports",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#SosReports",
"@odata.type": "#SosReportsCollection.SosReportsCollection"
}
```

Expand example

```
"SosReports": [

"ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef",
"FileLocation": "xxx.xx.xxxx:/home/dell/temp_images/",
"StatusMessage": "Successfully backed up",
"ServerPassword": "force10",
"Status": "Success",
"TimeStamp": "1626734910.8032453",
"TransportType": "SCP",
"ServerUserName": "dell",
"@odata.id": "/redfish/v1/SFSSApp/
SosReports('d25d9f7e-8ae0-490a-94fe-071e8asdef')",
"@odata.type": "#SosReports.SosReports",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#SosReports/SosReports/$entity"
```

```
}
],
"SosReports@odata.count": 1,
"@odata.id": "/redfish/v1/SFSSApp/SosReports?$expand=SosReports",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#SosReports",
"@odata.type": "#SosReportsCollection.SosReportsCollection"
}
```

ID example

```
{
"ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef",
"FileLocation": "xxx.xx.xxx.xxx:/home/dell/temp_images/",
"StatusMessage": "Successfully backed up",
"ServerPassword": "force10",
"Status": "Success",
"TimeStamp": "1626734910.8032453",
"TransportType": "SCP",
"ServerUserName": "dell",
"@odata.id": "/redfish/v1/SFSSApp/
SosReports('d25d9f7e-8ae0-490a-94fe-071e8asdef')",
"@odata.type": "#SosReports.SosReports",
"@odata.context": "/redfish/v1/SFSSApp/$metadata#SosReports/SosReports/
$entity"
}
```

POST APP for SOS Reports

Description Creates or updates APP SFSS interface SOS reports.

Privilege SysAdmir

Method POST method for the APP SFSS inteface SOS report.

URL • https://<IP address>/redfish/v1/SFSSApp/SosReports

Example Authentication sequence

```
{
"FileLocation": "xxx.xx.xx.xxx:/home/dell/temp_images/",
"ServerPassword": "force10",
"TransportType": "SCP",
"ServerUserName": "dell"
}
```

HTTP response

```
HTTP Response Code 201 {
"ID": "d25d9f7e-8ae0-490a-94fe-071e8asdef"
}
```

APP for UserActivityAudit

APP for Alerts

GET APP for UserActivityAudit

Description Retrieves user activity audit APP information.

Privilege SysAdmin

Method GET method for the user activity audit information.

NOTE: You can only use the CDCInstance as a filter logic. You can include \$filter along with the pagination.

- **URLs**
- https://<IP address>/redfish/v1/SFSSApp/UserActivityAudit
- https://<IP address>/redfish/v1/SFSSApp/UserActivityAudit('1')

Examples

```
"UserActivityAudits": [
        {
            "CDCInstance": "APP",
            "HTTPCode": "200 OK",
"Operation": "GET",
            "Payload": "",
            "SourceIP": "xx.xxx.x.x",
            "TimeStamp": "2021-06-28 08:33:21.686088",
            "URL": "http://SFSS-infra/redfish/v1/SFSSApp/
UserActivityAudit",
            "UserAgent": "PostmanRuntime/7.28.0", "UserName": "admin",
            "UserRole":
"@odata.context": "/redfish/v1/SFSSApp/
$metadata#UserActivityAudit/UserActivityAudit/$entity"
        {
            "CDCInstance": "APP",
            "HTTPCode": "201 Created",
            "Operation": "PATCH",
"Payload": "{\"InstanceIdentifier\":\"1\",\"Interfaces\":
[\"ens192\"]}",
            "SourceIP": "127.0.0.1",
"TimeStamp": "2021-06-28 08:32:59.186355",
            "URL": "http://SFSS-infra/redfish/v1/SFSSApp/
CDCInstanceManagers('1')",
            "UserAgent": "curl/7.64.0",
            "UserName": "MENU USER",
            "UserRole": "admin",
            "@odata.id": "/redfish/v1/SFSSApp/UserActivityAudit('1')",
            "@odata.type": "#UserActivityAudit.UserActivityAudit",
            "@odata.context": "/redfish/v1/SFSSApp/
$metadata#UserActivityAudit/UserActivityAudit/$entity"
    "UserActivityAudits@odata.count": 2,
    "@odata.id": "/redfish/v1/SFSSApp/UserActivityAudit",
    "@odata.context": "/redfish/v1/SFSSApp/$metadata#UserActivityAudit",
    "@odata.type":
"#UserActivityAuditsCollection.UserActivityAuditsCollection"
```

Example with ID "1"

```
"CDCInstance": "APP",
   "HTTPCode": "201 Created",
   "Operation": "PATCH",
   "Payload": "{\"InstanceIdentifier\":\"1\",\"Interfaces\":
[\"ens192\"]}",
   "SourceIP": "xxx.x.x.x",
   "TimeStamp": "2021-06-28 08:32:59.186355",
   "URL": "http://SFSS-infra/redfish/v1/SFSSApp/
CDCInstanceManagers('1')",
   "UserAgent": "curl/7.64.0",
   "UserName": "MENU_USER",
   "UserRole": "admin",
   "@odata.id": "/redfish/v1/SFSSApp/UserActivityAudit('1')",
   "@odata.type": "#UserActivityAudit.UserActivityAudit",
   "@odata.context": "/redfish/v1/SFSSApp/$metadata#UserActivityAudit/
```

UserActivityAudit/\$entity"

CDCInstances

SFSS APIs for CDCInstances

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

GET API for CDCInstance

GET API for CDCInstance

Description Retrieves CDC instance information and functionality. The response goes to a JSON file.

Privilege

Method GET method for CDC instance functionality.

URLs http://<ip-address>/redfish/v1/SFSS/<Instance#>/CDCInstance?\$source=config

Examples

```
"DiscoveryControllerPort": 8009,
     "InstanceId": "1",
"UpTime": "2021-06-24 14:05:06.590947",
"Version": "1.0.0",
     "@odata.id": "/redfish/v1/SFSS/1/CDCInstance",
"@odata.type": "#CDCInstance.CDCInstance",
     "@odata.context": "/redfish/v1/SFSS/1/$metadata#CDCInstance/
CDCInstance/$entity"
```

DDC

SFSS APIs for DDC

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for DDC
- PUT API for DDC
- DELETE API for DDC
- GET API for DDC

POST API for DDC

Description Creates or updates DDC functionality.

Privilege SysAdmin

Method POST method for DDC.

URLs
https://<ip-address>/redfish/v1/SFSS/<Instance #>/DDCs

Examples Payload

```
"TransportAddress": "111.111.111.115",
    "TransportAddressFamily": "IPV4",
    "PortId": 5450,
    "TransportType": "TCP",
    "Activate": true
}
```

Output

```
{
    "Id": "@111.111.115:V4::0:5450:TCP"
}
```

PUT API for DDC

Description Changes the DDC.

Privilege SysAdmin

Method PUT method for DDC.

URL https://<IP address>/redfish/v1/SFSS/<Instance#>/DDCs('Id')

Examples Payload

```
{
    "Activate": false
}
```

Output

```
{
    "Id": "@111.111.115:V4::0:5450:TCP"
}
```

DELETE API for DDC

Description Deletes the DDC.

Privilege SysAdmin

Method DELETE method DDCs.

Example

URLs

```
{
    "Id": "@111.111.115:V4::0:5450:TCP"
}
```

GET API for DDC

Description Retrieves DDC information and functionality. The response goes to a JSON file.

Privilege SysAdmin

Method GET method for DDC functionality.

all motified for BBO functionality

- https://*<ip-address>*/redfish/v1/SFSS/<Instance#>/DDCs
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/ DDCs('ld')
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/DDCs/Enums

Examples DDCs

DDCs('ld') example

```
"Id": "@xxx.xxx.xxx.xxx.xxx:V4::0:5450:TCP",
    "TransportAddress": "111.111.115",
    "TransportAddressFamily": "IPV4",
    "PortId": 5450,
    "TransportType": "TCP",
    "Activate": false,
    "ConfigType": "Manual",
    "ConnectionStatus": "Offline",
    "FailureReason": "0",
    "@odata.id": "/redfish/v1/SFSS/1/
DDCs('@xxx.xxx.xxx.xxx:V4::0:5450:TCP')",
    "@odata.type": "#DDCs.DDCs",
```

```
"@odata.context": "/redfish/v1/SFSS/1/$metadata#DDCs/DDCs/$entity"
```

Enums example

```
"TransportAddressFamily": [
   "IPV4",
"IPV6"
"ConfigType": [
    "KDCC",
    "TOLI".
      "Manual",
     "Push",
"Pull",
"Implicit"
],
"ConnectionStatus": [
      "Offline",
"Online"
],
"TransportType": [
     "TCP"
```

Global Policies

SFSS APIs for Global Policies

NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for Global Policies
- GET API for Global Policies

POST API for Global Policies

Description Creates or updates global policies.

Privilege SysAdmin

Method POST method for global policies.

• https://
https://
/redfish/v1/SFSS/<Instance #>/GlobalPolicies

Example

```
{
    "ZoningPolicy":"Disable"
    "NameServerEntityPurgeTOV" : "4Hr"
}
```

HTTP response

HttpStatusCode: 201

GET API for Global Policies

Description Retrieves global policy information.

Privilege SysAdmin

Method GET method for global policies.

URL

https://<IP address>/redfish/v1/SFSS/<Instance #>/GlobalPolicies

 $\bullet \quad \text{https://} < IP \ address > / \text{redfish/v1/SFSS/} < \text{Instance} \# > / \text{GlobalPolicies/Enums}$

Example

```
"ZoningPolicy": "Enable",
    "NameServerEntityPurgeToV": "4Hr",
    "@odata.id": "/redfish/v1/SFSS/1/GlobalPolicies",
    "@odata.type": "#GlobalPolicies.GlobalPolicies",
    "@odata.context": "/redfish/v1/SFSS/1/$metadata#GlobalPolicies/
GlobalPolicies/$entity"
}
```

Enums

```
{
    "ZoningPolicy": [
        "Enable",
        "Disable"
],
```

```
"NameServerEntityPurgeTOV": [
       "NoTimeout",
"4Hr",
"24Hr",
       "8Hr",
"48Hr",
"5Sec"
]
```

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Host

SFSS APIs for Host

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for Host
- **DELETE API for Host**
- **GET API for Host**

POST API for Host

Creates or updates host functionality. Description

Privilege SysAdmin

Method POST method for hosts.

URLs

• https://<ip-address>/redfish/v1/SFSS/<Instance #>/Hosts

Examples

Payload

```
"NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
"TransportAddress": "xx.xx.xx.xx",
"TransportAddressFamily": "IPV4",
"TransportType": "TCP"
```

Output

```
"Id": "nqn.2014-08.org.nvmexpress:uuid:host@xx.xx.xx.xx:V4::0:0:TCP"
```

DELETE API for Host

Description Deletes the Host.

Privilege SysAdmin

Method DELETE method Hosts.

URL https://<ip-address>/redfish/v1/SFSS/<Instance #>/Hosts('Id')

Example

```
"Id": "nqn.2014-08.org.nvmexpress:uuid:host@xx.xx.xx.xx:V4::0:0:TCP"
```

GET API for Host

Description

Retrieves host information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for host functionality.

URLs

- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Hosts
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Hosts?\$expand=Hosts
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Hosts('Id')
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Hosts?\$source=config
- https://<ip-address>/redfish/v1/SFSS/<Instance #>/Hosts?\$expand=Hosts&\$skip=1
- https://<ip-address>/redfish/v1/SFSS/1/Hosts?\$expand=Hosts&\$filter=TransportAddress eq xx.xx.xx.xx or TransportAddress eq xx.xx.xx.xx
 - This URL filters the query for specific records with TransportAddress.
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Hosts/Enums

Examples

Expand example

```
"Hosts": [
"nqn.2014-08.org.nvmexpress:uuid:host@xx.xx.xx.xx:V4::0:0:TCP",
              "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
              "TransportAddress": "xx.xx.xx",
              "TransportAddressFamily": "IPV4",
              "PortId": 0,
              "TransportType": "TCP",
              "TREQ": "Secure channel Not specified", "TSAS": "No Security",
              "RegistrationType": "Manual",
"ConnectionStatus": "Offline",
              "FailureReason": "NONE"
              "@odata.id": "/redfish/v1/SFSS/1/
\label{losts('nqn.2014-08.org.nvmexpress:uuid:host@xx.xx.xx.xx:V4::0:0:TCP')", \\ "@odata.type": "#Hosts.Hosts", \\ \end{aligned}
              "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
         },
              "Id":
"nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
              "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
              "TransportAddress": "x.x.x.x",
              "TransportAddressFamily": "IPV4",
```

```
"PortId": 0,
             "TransportType": "TCP",
             "TREQ": "Secure channel Not specified",
             "TSAS": "No Security",
"RegistrationType": "Manual",
"ConnectionStatus": "Offline",
             "FailureReason": "NONE",
             "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
             "@odata.type": "#Hosts.Hosts",
             "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
"nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
             "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
             "TransportAddress": "x.x.x.x",
             "TransportAddressFamily": "IPV4",
             "PortId": 0,
             "TransportType": "TCP",
             "TREQ": "Secure channel Not specified", "TSAS": "No Security",
             "RegistrationType": "Manual",
"ConnectionStatus": "Offline",
             "FailureReason": "NONE"
             "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
             "@odata.type": "#Hosts.Hosts",
             "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
    "Hosts@odata.count": 3,
    "@odata.id": "/redfish/v1/SFSS/1/Hosts?$expand=Hosts",
    "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts",
    "@odata.type": "#HostsCollection.HostsCollection"
}
```

Hosts('Id') example

```
{
"Id": "nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
"NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
"TransportAddress": "x.x.x.x",
"TransportAddressFamily": "IPV4",
"PortId": 0,
"TransportType": "TCP",
"TREQ": "Secure channel Not specified",
"TSAS": "No Security",
"RegistrationType": "Manual",
"ConnectionStatus": "Offline",
"FailureReason": "NONE",
"@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
"@odata.type": "#Hosts.Hosts",
"@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/$entity"
}
```

Config example

Skip one record example

```
"Hosts": [
        {
              "Id":
"nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
              "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
             "TransportAddress": "x.x.x.x",
              "TransportAddressFamily": "IPV4",
              "PortId": 0,
              "TransportType": "TCP",
             "TREQ": "Secure channel Not specified", "TSAS": "No Security",
             "RegistrationType": "Manual",
"ConnectionStatus": "Offline",
              "FailureReason": "NONE",
              "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
              "@odata.type": "#Hosts.Hosts",
"@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
              "Id":
"nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
              "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
"TransportAddress": "x.x.x.x",
              "TransportAddressFamily": "IPV4",
              "PortId": 0,
              "TransportType": "TCP"
             "TREQ": "Secure channel Not specified", "TSAS": "No Security",
             "RegistrationType": "Manual", "ConnectionStatus": "Offline",
             "FailureReason": "NONE",
              "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
              "@odata.type": "#Hosts.Hosts",
              "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
    "Hosts@odata.count": 2,
    "@odata.id": "/redfish/v1/SFSS/1/Hosts?$expand=Hosts&$skip=1",
    "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts",
    "@odata.type": "#HostsCollection.HostsCollection"
}
```

Transport Address example

```
"TransportType": "TCP",
            "TREQ": "Secure channel Not specified", "TSAS": "No Security",
            "RegistrationType": "Manual",
"ConnectionStatus": "Offline",
             "FailureReason": "NONE",
             "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@xx.xx.xx.xx:V4::0:0:TCP')",
             "@odata.type": "#Hosts.Hosts",
             "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
             "Id":
"nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP",
             "NQN": "nqn.2014-08.org.nvmexpress:uuid:host",
             "TransportAddress": "x.x.x.x",
             "TransportAddressFamily": "IPV4",
             "PortId": 0,
             "TransportType": "TCP",
            "TREQ": "Secure channel Not specified",
"TSAS": "No Security",
            "RegistrationType": "Manual",
"ConnectionStatus": "Offline",
             "FailureReason": "NONE",
             "@odata.id": "/redfish/v1/SFSS/1/
Hosts('nqn.2014-08.org.nvmexpress:uuid:host@x.x.x.x:V4::0:0:TCP')",
             "@odata.type": "#Hosts.Hosts",
             "@odata.context": "/redfish/v1/SFSS/1/$metadata#Hosts/Hosts/
$entity"
    "Hosts@odata.count": 2,
"@odata.id": "/redfish/v1/SFSS/1/Hosts?
$expand=Hosts&$filter=TransportAddress%20eq%2011.22.33.44%20or%20Transpor
"@odata.type": "#HostsCollection.HostsCollection"
```

Enums example

```
"TransportAddressFamily": [
    "IPV4",
    "IPV6"
],
   "RegistrationType": [
    "Manual",
    "Explicit",
    "Implicit",
    "Pull"
],
   "ConnectionStatus": [
    "Offline",
    "Online"
],
   "TransportType": [
    "TCP"
]
```

Subsystem

SFSS APIs for Subsystem

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for Subsystem
- **DELETE API for Subsystem**
- **GET API for Subsystem**

POST API for Subsystem

Description Creates or updates subsystem functionality.

Privilege SysAdmin

Method POST method for subsystems.

URLs https://<ip-address>/redfish/v1/SFSS/<Instance #>/Subsystems

Examples Payload

```
"NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
     "TransportAddress": "x.x.x.x",
"TransportAddressFamily": "IPV4",
    "PortId": xxxx,
"TransportType": "TCP",
     "TransportServiceId": "900"
}
```

Output

```
"Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:0:TCP"
```

DELETE API for Subsystem

Description Deletes the subsystem.

Privilege SysAdmin

Method DELETE method Subsystems.

URL https://<ip-address>/redfish/v1/SFSS/<Instance #>/Subsystems('ld')

Example

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```
"Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP"
```

GET API for Subsystem

Description

Retrieves subsystem information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for subsystem functionality.

URLs

- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Subsystems
- https://*<ip-address>*/redfish/v1/SFSS/*<Instance#>*/Subsystems?\$expand=Subsystems
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Subsystems('Id')
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Subsystems?\$source=config
- https://<ip-address>/redfish/v1/SFSS/<Instance#>/Subsystems?
 \$expand=Subsystems&\$filter=TransportAddress eq 'xx.xx.xx.xx' or TransportAddress eq 'x.x.x.x'
- This URL filters the query for transport IP address combinations.
 https://<ip-address>/redfish/v1/SFSS/<Instance#>/Subsystems/Enums

Examples

Subsystems

Subsystems expanded example

```
"Subsystems": [
            "Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:600:0:0:0:TCP",
            "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
            "TransportAddress": "x.x.x.x"
            "TransportAddressFamily": "IPV4",
            "PortId": 5450,
            "ControllerId": 65535
            "TransportType": "TCP",
"SubType": "NVM Subsystem",
            "TREQ": "Secure channel Not specified",
            "ASQZ": 32,
            "TransportServiceId": "600",
            "TSAS": "No Security",
            "RcvdGenCounter": 0,
"RegistrationType": "Manual",
            "ConnectionStatus": "Offline",
            "FailureReason": "NONE"
             "@odata.id": "/redfish/v1/SFSS/1/
Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:600:0:0:TCP')",
             "@odata.type": "#Subsystems.Subsystems",
             "@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/
Subsystems/$entity"
        },
            "Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP",
             "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
             "TransportAddress": "x.x.x.x",
```

```
"TransportAddressFamily": "IPV4",
            "PortId": 5450,
            "ControllerId": 65535,
            "TransportType": "TCP",
            "SubType": "NVM Subsystem",
"TREQ": "Secure channel Not specified",
            "ASQZ": 32,
            "TransportServiceId": "400",
            "TSAS": "No Security",
            "RcvdGenCounter": 0,
            "RegistrationType": "Manual",
            "ConnectionStatus": "Offline",
            "FailureReason": "NONE",
"@odata.id": "/redfish/v1/SFSS/1/
"@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/
Subsystems/$entity"
        {
            "Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:0:TCP",
            "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
            "TransportAddress": "x.x.x.x",
            "TransportAddressFamily": "IPV4",
            "PortId": 5450,
            "ControllerId": 65535,
            "TransportType": "TCP",
"SubType": "NVM Subsystem",
            "TREQ": "Secure channel Not specified",
            "ASQZ": 32,
            "TransportServiceId": "900",
            "TSAS": "No Security",
            "RcvdGenCounter": 0,
            "RegistrationType": "Manual",
            "ConnectionStatus": "Offline",
            "FailureReason": "NONE",
            "@odata.id": "/redfish/v1/SFSS/1/
Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:0:TCP')",
            "@odata.type": "#Subsystems.Subsystems",
            "@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/
Subsystems/$entity"
       }
    "Subsystems@odata.count": 3,
    "@odata.id": "/redfish/v1/SFSS/1/Subsystems?$expand=Subsystems",
    "@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems",
    "@odata.type": "#SubsystemsCollection.SubsystemsCollection"
}
```

ID example

```
"Id": "nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP",
    "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
    "TransportAddress": "x.x.x.x",
    "TransportAddressFamily": "IPV4",
    "PortId": 5450,
    "ControllerId": 65535,
    "TransportType": "TCP",
    "SubType": "NVM Subsystem",
    "TREQ": "Secure channel Not specified",
    "ASQZ": 32,
    "TransportServiceId": "400",
    "TSAS": "No Security",
    "RcvdGenCounter": 0,
    "RegistrationType": "Manual",
    "ConnectionStatus": "Offline",
    "FailureReason": "NONE",
    "@odata.id": "/redfish/v1/SFSS/1/
Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP')",
    "@odata.type": "#Subsystems.Subsystems",
    "@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/Subsystems/$entity"}
```

Configuration example

```
{
"Subsystems": [
{
    "@odata.id": "/redfish/v1/SFSS/1/
    Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:600:0:0:TCP')"
},
{
    "@odata.id": "/redfish/v1/SFSS/1/
    Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP')"
},
{
    "@odata.id": "/redfish/v1/SFSS/1/
    Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:TCP')"
}
],
"Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:TCP')"
}
],
"Subsystems@odata.count": 3,
"@odata.id": "/redfish/v1/SFSS/1/Subsystems?$source=config",
"@odata.id": "/redfish/v1/SFSS/1/$metadata#Subsystems",
"@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems",
"@odata.type": "#SubsystemsCollection.SubsystemsCollection"
}
```

Filter with transport address combinations example

```
{
    "Subsystems": [
        {
            "Id":
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:0:TCP",
            "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
            "TransportAddress": "x.x.x.x"
            "TransportAddressFamily": "IPV4",
            "PortId": 5450,
            "ControllerId": 65535,
            "TransportType": "TCP",
"SubType": "NVM Subsystem",
            "TREQ": "Secure channel Not specified",
            "ASQZ": 32,
            "TransportServiceId": "400",
            "TSAS": "No Security",
            "RcvdGenCounter": 0,
            "RegistrationType": "Manual",
            "ConnectionStatus": "Offline",
            "FailureReason": "NONE"
            "@odata.id": "/redfish/v1/SFSS/1/
Subsystems('nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:400:0:0:TCP')", "@odata.type": "#Subsystems.Subsystems",
            "@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/
Subsystems/$entity"
        },
        {
"nqn.2014-08.org.nvmexpress:uuid:subsystem@x.x.x.x:V4:900:0:0:TCP",
            "NQN": "nqn.2014-08.org.nvmexpress:uuid:subsystem",
            "TransportAddress": "x.x.x.x"
            "TransportAddressFamily": "IPV4",
            "PortId": 5450,
            "ControllerId": 65535
            "TransportType": "TCP",
            "SubType": "NVM Subsystem",
"TREQ": "Secure channel Not specified",
            "ASQZ": 32,
            "TransportServiceId": "900",
            "TSAS": "No Security",
            "RcvdGenCounter": 0,
            "RegistrationType": "Manual",
            "ConnectionStatus": "Offline",
            "FailureReason": "NONE"
            "@odata.id": "/redfish/v1/SFSS/1/
"@odata.context": "/redfish/v1/SFSS/1/$metadata#Subsystems/
Subsystems/$entity"
```

```
"Subsystems@odata.count": 2,
"@odata.id": "/redfish/v1/SFSS/1/Subsystems?
$expand=Subsystems&$filter=TransportAddress$20eq$201.1.1.1$20or$20TransportAddre
"@odata.type": "#SubsystemsCollection.SubsystemsCollection"
}
```

Enums example

```
"TransportAddressFamily": [
    "IPV4",
    "IPV6"
],
"RegistrationType": [
   "Manual",
   "Explicit",
   "Templicit",
        "Implicit",
"Pull"
],
"ConnectionStatus": [
"Offline",
"Online"
],
"TransportType": [
"TCP"
```

ZoneAlias

SFSS APIs for ZoneAlias

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for ZoneAlias
- DELETE API for ZoneAlias
- GET API for ZoneAlias
- GET API for ZoneAlias Using Key

POST API for ZoneAlias

Description Creates or updates zone alias functionality.

Privilege SysAdmin

Method POST method for the zone alias.

URLs
https://<ip-address>/redfish/v1/SFSS/<instance#>/ZoneDBs('config')/ZoneAlias

Examples Payload

```
{
"ZoneDBType": "config",
"ZoneAliasName": "DhanaSampleAlias123"
}
```

Output

```
{
    "EId": "config:DhanaSampleAlias123"
}
```

DELETE API for ZoneAlias

Description Deletes the zone alias.

Privilege SysAdmin

Method DELETE method for zone alias.

URL https://*<ip-address>*/redfish/v1/SFSS/*< instance#>*/ZoneDBs('config')/

ZoneAlias('config:DhanaSampleAliasTest')

```
{
    "EId": "config:DhanaSampleAliasTest"
}
```

GET API for ZoneAlias

Description

Retrieves zone alias information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for zone alias functionality.

URLs

https://<ip-address>/redfish/v1/SFSS/< instance#>/ZoneDBs('config')/ZoneAlias?
 \$source=config&\$expand=ZoneAlias

Example

```
{
    "ZoneAlias": [
            "ZoneAliasId": "config:DhanaSampleAlias",
            "ZoneAliasName": "DhanaSampleAlias",
            "NumberZoneMembers": "1"
            "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneAlias('config:DhanaSampleAlias')",
            "@odata.type": "#ZoneAlias.ZoneAlias",
            "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
$metadata#ZoneAlias/ZoneAlias/$entity"
            "ZoneAliasId": "config:DhanaSampleAliasTest",
            "ZoneAliasName": "DhanaSampleAliasTest"
            "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneAlias('config:DhanaSampleAliasTest')",
            "@odata.type": "#ZoneAlias.ZoneAlias",
            "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
$metadata#ZoneAlias/ZoneAlias/$entity"
    "ZoneAlias@odata.count": 2,
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneAlias?
$source=config&$expand=ZoneAlias",
    "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
$metadata#ZoneAlias"
    "@odata.type": "#ZoneAliasCollection.ZoneAliasCollection"
```

GET API for ZoneAlias Using Key

Description

Retrieves zone alias information and functionality using a key. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for zone alias functionality using a key.

URLs

 https://<ip-address>/redfish/v1/SFSS/< instance#>/ZoneDBs('config')/ ZoneAlias('config:DhanaSampleAliasTest')?\$source=config

```
{
    "ZoneAliasId": "config:DhanaSampleAliasTest",
    "ZoneAliasName": "DhanaSampleAliasTest",
    "NumberZoneMembers": "1",
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneAlias('config:DhanaSampleAliasTest')",
    "@odata.type": "#ZoneAlias.ZoneAlias",
    "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
$metadata#ZoneAlias/ZoneAlias/$entity"
}
```

ZoneAliasMember

SFSS APIs for ZoneAliasMember

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for ZoneAliasMember Using NQN
- PUT API for ZoneAliasMember Using NQN
- POST API for ZoneAliasMember Using FullQualifiedName
- PUT API for ZoneAliasMember Using FullQualifiedName
- DELETE API for ZoneAliasMember
- GET API for ZoneAliasMember
- GET API for ZoneAliasMember Using Key
- GET API for ZoneAliasMember with Expand
- GET API for ZoneAliasMember Enums

POST API for ZoneAliasMember Using NQN

Description Creates or updates zone alias member using NQN functionality.

Privilege SysAdmin

Method POST method for the zone alias members using NQN.

https://<ip-address>/redfish/v1/SFSS/< instance#>/ZoneDBs('config')/ZoneAlias('config:SampleZoneAlias')/ZoneAliasMembers

Examples Payload

```
"ZoneAliasMemberId": "nqn.2014-08.org.nvmexpress:uuid:host",
"ZoneAliasMemberType": "NQN",
"Role" : "Host"
}
```

Output

```
{
    "EId": "config:SampleZoneAlias:nqn.2014-08.org.nvmexpress:uuid:host"
}
```

PUT API for ZoneAliasMember Using NQN

Description Changes the zone alias members using the NQN functionality.

Privilege SysAdmin

Method PUT method to change zone alias members using NQN.

URL https://<IP-address>/redfish/v1/SFSS/<

instance#>/ZoneDBs('config')/ZoneAlias('config:SampleZoneAlias')/

ZoneAliasMembers('config:SampleZoneAlias:nqn.2014-08.org.nvmexpress:uuid:host')

Examples

Payload

```
{
    "Role":"Subsystem"
}
```

Output

```
{
    "EId": "config:SampleZoneAlias:nqn.2014-08.org.nvmexpress:uuid:host"
}
```

POST API for ZoneAliasMember Using FullQualifiedName

Description

Creates or updates zone alias member using full qualified name functionality.

Privilege

SysAdmin

Method

POST method for the zone alias members using a full qualified name.

URLs

 https://<ip-address>/redfish/v1/SFSS/< instance#>/ZoneDBs('config')/ ZoneAlias('config:DhanaSampleAlias')/ZoneAliasMembers

Examples

Payload

```
"ZoneAliasMemberId":
"nqn.2014-08.org.nvmexpress:uuid:host:TCP:Ipv4:1.1.1.1:3002",
    "ZoneAliasMemberType": "FullQualifiedName",
    "Role": "Subsystem"
}
```

Output

```
{
    "EId": "config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:1.1.1.1:3002"
}
```

PUT API for ZoneAliasMember Using FullQualifiedName

Description Changes the zone alias members using the full qualified name functionality.

Privilege SysAdmin

Method PUT method to change zone alias members using a full qualified name.

URL https://<IP-address>/redfish/v1/SFSS/<

instance#>/ZoneDBs('config')/ZoneAlias('config:DhanaSampleAlias')/

ZoneAliasMembers('config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:host:TCP:lpv4:1.1.1.1:3002')

Examples Payload

```
{
    "Role":"Host"
}
```

Output

```
{
    "EId": "config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:1.1.1:3002"
}
```

DELETE API for ZoneAliasMember

Description Deletes the zone alias member.

Privilege SysAdmin

MethodDELETE method for zone alias members.URLhttps://<ip-address>/redfish/v1/SFSS/

instance#>/ZoneDBs('config')/ZoneAlias('config:DhanaSampleAlias')/

ZoneAliasMembers('config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:host:TCP:lpv4:1.1.1.1:3002')

Example

```
{
    "EId": "config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:x.x.x.x:3002"
}
```

GET API for ZoneAliasMember

Description Retrieves zone alias member information and functionality. The response goes to a JSON file.

Privilege SysAdmin

Method GET method for zone alias member functionality.

URLs https://*<ip-address>*/redfish/v1/SFSS/*< instance#>*/ZoneDBs('config')/

ZoneAlias('config:DhanaSampleAlias')/ZoneAliasMembers?\$source=config

Example

GET API for ZoneAliasMember Using Key

Description Retrieves zone alias member information and functionality using a key. The response goes to a JSON file.

Privilege SysAdmin

Method

GET method for zone alias member functionality using a key.

URLs

https://<ip-address>/redfish/v1/SFSS/
 instance#>/ZoneDBs('config')/ZoneAlias('config:DhanaSampleAlias')/
 ZoneAliasMembers('config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:host')?
 \$source=config

Example

```
{
    "ZoneAliasMemberId": "config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:host",
    "ZoneAliasMemberType": "NQN",
    "Role": "Host",
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneAlias('config:DhanaSampleAlias')
/ZoneAliasMembers('config:DhanaSampleAlias:nqn.2014-08.org.nvmexpress:uuid:host')",
    "@odata.type": "#ZoneAliasMembers.ZoneAliasMembers",
    "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneAlias('config:DhanaSampleAlias')
/$metadata#ZoneAliasMembers/ZoneAliasMembers/$entity"
}
```

GET API for ZoneAliasMember with Expand

Description Retrieves expanded zone alias member information and functionality. The response goes to a JSON file.

Privilege SysAdmin

Method GET method for zone alias member functionality.

URLs https://<ip-address>/redfish/v1/SFSS/<instance#>/ZoneDBs('config')/

ZoneAlias('config:DhanaSampleAlias')/ZoneAliasMembers?\$source=config&\$expand=ZoneAliasMembers

Example

GET API for ZoneAliasMember Enums

Description Retrieves zone alias member Enums information and functionality. The response goes to a JSON file.

Privilege SysAdmir

ZoneAliasMember

Method GET method for zone alias member Enums functionality.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs/ZoneAlias/ZoneAliasMembers/Enums

```
"Role": [
        "Subsystem",
        "Host"
],
    "ZoneMemberType": [
        "NQN",
        "FullQualifiedName"
]
```

ZoneDB

SFSS APIs for ZoneDB

NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

GET API for ZoneDB

GET API for ZoneDB

Description

Retrieves zone database information and functionality. The response goes to a JSON file.

Privilege

SvsAdmir

Method

GET method for zone database functionality.

URLs

- https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs
- https://*cip-address*>/redfish/v1/SFSS/*clnstance#*>/ZoneDBs?\$source=config

Example

Config example

ZoneDB - ActiveDB

SFSS APIs for ZoneDB - ActiveDB

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

• GET API for ZoneDB - ActiveDB

GET API for ZoneDB - ActiveDB

Description Retrieves zone database - Active database information and functionality. The response goes to a JSON

file.

Privilege SysAdmin

Method GET method for zone database - Active database functionality.

https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs('active')

Example

URLs

```
{
   "NumberZoneGroups": 1,
   "ZoneGroups": [
        "active:ZoneGrpDhana1111:"
   ],
   "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('active')",
   "@odata.type": "#ZoneDBs.ZoneDBs",
   "@odata.context": "/redfish/v1/SFSS/1/$metadata#ZoneDBs/ZoneDBs/
$entity"
}
```

ZoneDB - ConfigDB

SFSS APIs for ZoneDB - ConfigDB

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- DELETE API for ZoneDB ConfigDB Flush
- GET API for ZoneDB ConfigDB

DELETE API for ZoneDB - ConfigDB Flush

Description Deletes the zone database - configuration database.

Privilege SysAdmin

Method DELETE method for zone databases - configuration databases.

URL https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')

Example

```
"EId": "config"
```

Retrieves zone database - Config database information and functionality. The response goes to a JSON

GET API for ZoneDB - ConfigDB

file.

SvsAdmin

GET method for zone database - Config database functionality.

Method

https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs('config'')?\$source=config

Example

URLs

Privilege

Description

```
"NumberZoneGroups": 1,
    "ZoneGroups": [
       "config:ZoneGrpDhana1111:"
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')",
   "@odata.type": "#ZoneDBs.ZoneDBs",
   "@odata.context": "/redfish/v1/SFSS/1/$metadata#ZoneDBs/ZoneDBs/
$entity"
```

ZoneGroup

SFSS APIs for ZoneGroup

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for ZoneGroup
- PUT API for ZoneGroup (Activate)
- PUT API for ZoneGroup (Deactivate)
- DELETE API for ZoneGroup
- GET API for ZoneGroup
- GET API for ZoneGroups

POST API for ZoneGroup

Description Creates or updates ZoneGroup functionality.

Privilege SysAdmin

Method POST method for ZoneGroups.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/ZoneGroups

Examples Payload

```
{
"ZoneDBType": "config",
"ZoneGroupName": "ZoneGrpDhana1111"
}
```

Output

```
{
    "EId":
"config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8"
}
```

PUT API for ZoneGroup (Activate)

Description Activates the zone group.

Privilege SysAdmin

Method PUT method to activate the zone groups.

URL https://<IP-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

ZoneGroups('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')

Examples Payload

```
{
    "ActivateStatus": "Activate"
}
```

Output

```
{
    "EId":
    "active:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8"
}
```

PUT API for ZoneGroup (Deactivate)

Description Deactivates the zone group.

Privilege SysAdmin

Method PUT method to deactivate the zone groups.

URL https://<IP-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('active')/

ZoneGroups('active:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')

Examples Payload

```
{
    "ActivateStatus": "DeActivate"
}
```

Output

```
{
"Eld":"active:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8"
}
```

DELETE API for ZoneGroup

Description Deletes the zone group.

Privilege SysAdmin

Method DELETE method for zone groups.

URL https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

ZoneGroups('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')

Example

```
{
    "EId":
"config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8"
}
```

GET API for ZoneGroup

Description Retrieves zone group information and functionality. The response goes to a JSON file.

Privilege SysAdmin

Method GET method for zone group functionality.

URLs • https://<ip-address>/redfish/v1/SFS

https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs/ZoneGroups/Enums

Example

```
"ZoneDBType": "config",
"ZoneGroupId":
"config:ZoneGroup1:nqn.1988-11.com.dell:SFSS:1:20210706164404e8",
"zoneGroupName": "ZoneGroup1",
"OriginatorNQN": "nqn.1988-11.com.dell:SFSS:1:20210706164404e8",
"Type": "Manual",
"ActivateStatus": "DeActivate",
"ActivationState": "NotActive",
"NumberZones": 0,
"@odata.id": "/redfish/v1/SFSS/1/ZoneDBs(config)/
ZoneGroups(config:ZoneGroup1:nqn.1988-11.com.dell:SFSS:1:20210706164404e8)",
"@odata.type": "#ZoneGroups.ZoneGroups",
"@odata.context": "/redfish/v1/SFSS/1/ZoneDBs(config)/$metadata#ZoneGroups/ZoneGroups/$entity"
}
```

Enums

```
"ActivateStatus": [
        "Activate",
        "DeActivate"
],
    "ActivetivetionState": [
        "Active",
        "ReActivationNeeded",
        "NotActive"
],
    "Type": [
        "Manual",
        "PULLANER",
        "ANER"
]
```

GET API for ZoneGroups

Description

Retrieves zone groups information and functionality.

Privilege

SysAdmin

Method

GET method for zone groups functionality.

URLs

• https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs('config')/ZoneGroups?\$source=config

```
{
"ZoneGroups": [
{
   "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneGroups('config:ZoneGrpDhanal111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')
}
],
"ZoneGroups@odata.count": 1,
"@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups?$source=config",
"@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/$metadata#ZoneGroups",
"@odata.type": "#ZoneGroupsCollection.ZoneGroupsCollection"
}
```

Zone

SFSS APIs for Zone

(i) NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for Zone
- **DELETE API for Zone**
- GET API for Zone

POST API for Zone

Description

Creates or updates zone functionality.

Privilege

SysAdmin

Method

POST method for zones.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/ ZoneGroups('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')/Zones

Examples

Payload

```
"ZoneName": "DhanaZone"
```

Output

```
"EId":
"config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8:DhanaZone"
```

DELETE API for Zone

Description

Deletes the zone.

Privilege

SysAdmin

Method

DELETE method for zones.

URL

https://<ip-address>/redfish/v1/SFSS/<Instance #>/

ZoneDBs('config')/ZoneGroups('config:ZoneGrpDhana:ngn.1988-11.com.dell:SFSS:1:20210706164404e8')/

Zones('config:ZoneGrpDhana:ngn.1988-11.com.dell:SFSS:1:20210706164404e8:DhanaZone')

```
"EId":
"config:ZoneGrpDhana:nqn.1988-11.com.dell:SFSS:1:20210706164404e8:DhanaZone"
```

GET API for Zone

Description

Retrieves Zone information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for Zone functionality.

URLs

• https://*<ip-address>*/redfish/v1/SFSS/*<lnstance#>*/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')/Zones?\$source=config

```
"Zones": [

"Zones": [

"@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneGroups('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8')
Zones('config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8:Dhana2)
],

"Zones@odata.count": 1,

"@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneGroups('config:ZoneGrpDhana1111:')/Zones?$source=config",

"@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/
ZoneGroups('config:ZoneGrpDhana1111:')/$metadata#Zones",

"@odata.type": "#ZonesCollection.ZonesCollection"
}
```

ZoneMember

SFSS APIs for ZoneMember

i NOTE: APIs are accepted only on the Primary node. The IP address that you use must be a Primary node IP address.

Topics:

- POST API for ZoneMember Using NQN
- PUT API for ZoneMember using NQN
- POST API for ZoneMember Using FullQualifiedName
- PUT API for ZoneMember using FullQualifiedName
- POST API for ZoneMember Using ZoneAlias
- DELETE API for ZoneMember
- GET API for ZoneMember
- GET API for ZoneMember Using Key
- GET API for ZoneMember with Expand
- GET API for ZoneMember Enums

POST API for ZoneMember Using NQN

Description Creates or updates zone member using NQN functionality.

Privilege SysAdmin

Method POST method for zone members using NQN.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/
ZoneGroups('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/
Zones('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
ZoneMembers

Examples

```
"ZoneMemberId": "nqn.2014-08.org.nvmexpress:uuid:host",
   "ZoneMemberType": "NQN",
   "Role":"Host"
```

Output

Pavload

```
{
    "EId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host"
}
```

PUT API for ZoneMember using NQN

Description Changes the zone member using NQN.

Privilege SysAdmin

Method PUT method to change zone members using NQN.

URL https://<IP-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

88

ZoneGroups('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/
Zones('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
ZoneMembers('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host')

Examples

Payload

```
{
"Role":"Subsystem"
}
```

Output

```
{
    "EId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host"
}
```

POST API for ZoneMember Using FullQualifiedName

Description Creates or updates zone member using the full qualified name functionality.

Privilege SysAdmin

Method POST method for zone members using a full qualified name.

URLs https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

 $\label{localizero} Zone Groups ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Zone Group: nqn.1988-11.com .dell:SFSS:1:20210527171628c9:Sample Zone 1')/ \\ Zones ('config:Sample Z$

ZoneMembers

Examples

Payload

```
{
    "ZoneMemberId": "nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:1.1.1:3000",
    "ZoneMemberType": "FullQualifiedName",
    "Role":"Host"
}
```

Output

```
{
    "EId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:1.1.1.1:3000"
}
```

PUT API for ZoneMember using FullQualifiedName

Description Changes the zone member using the full qualified name functionality.

Privilege SysAdmir

Method PUT method to change zone members using a full qualified name.

URL https://<IP-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

ZoneGroups('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/

Zones('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/

SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host:TCP:lpv4:1.1.1.1:3000')

Examples Payload

```
{
"Role":"Subsystem"
}
```

Output

```
{
   "EId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:
host:TCP:Ipv4:1.1.1.1:3000"
}
```

POST API for ZoneMember Using ZoneAlias

Description

Creates or updates zone member using zone alias functionality.

Privilege

SysAdmin

Method

POST method for zone members using a zone alias.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/
ZoneGroups('config:SampleZoneGroup: nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/
Zones('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
ZoneMembers

Examples

Payload

```
{
   "ZoneMemberId": "AliasMemberIdDhana",
   "ZoneMemberType": "ZoneAlias"
}
```

Output

```
{
    "EId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
1:20210527171628c9:SampleZone1:AliasMemberIdDhana"
}
```

DELETE API for ZoneMember

Description Deletes the zone member.

Privilege SysAdmin

Method DELETE method for zone members.

URL https://<ip-address>/redfish/v1/SFSS/<Instance

#>/ZoneDBs('config')/ZoneGroups('config:ZoneGrpDhana:')/Zones('config:ZoneGrpDhana1111:nqn.1988-11.com.dell ZoneMembers('config:ZoneGrpDhana1111::DhanaZone:nqn.2014-08.org.nvmexpress:uuid:host')

```
{
    "EId":
"config:ZoneGrpDhana1111:nqn.1988-11.com.dell:SFSS:1:20210706164404e8:DhanaZone:nd
}
```

GET API for ZoneMember

Description

Retrieves zone member information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for zone member functionality.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/
ZoneGroups('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/
Zones('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
ZoneMembers?\$source=config

Example

```
"ZoneMembers": [
            "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1:
nqn.2014-08.org.nvmexpress:uuid:host:TCP:Ipv4:1.1.1.1:3000')"
            "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:ngn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
ZoneMembers
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1:AliasMemberIdDhana')"
       },
            "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1:
nqn.2014-08.org.nvmexpress:uuid:host')"
    "ZoneMembers@odata.count": 3,
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')
/$metadata#ZoneMembers"
    "@odata.type": "#ZoneMembersCollection.ZoneMembersCollection"
```

GET API for ZoneMember Using Key

Description Retrieves zone alias member information and functionality using a key. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for zone member functionality using a key.

URLs

https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

ZoneGroups('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/

Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1')/2011 (Config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1988-11. com. dell: SF

ZoneMembers('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:

SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host')?\$source=config

```
{
    "Role": "Subsystem",
    "ZoneMemberId": "config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:
```

```
1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host",
    "ZoneMemberType": "NQN",
    "@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:
SampleZone1')/ZoneMembers
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1:
nqn.2014-08.org.nvmexpress:uuid:host')",
    "@odata.type": "#ZoneMembers.ZoneMembers",
    "@odata.context": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Sones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Sones
```

GET API for ZoneMember with Expand

Description Retrieves expanded zone member information and functionality. The response goes to a JSON file.

Privilege SysAdmin

Method GET method for zone member functionality.

URLs https://<ip-address>/redfish/v1/SFSS/<Instance #>/ZoneDBs('config')/

 $\label{localizero} Zone Groups ('config:Sample Zone Group:nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config:Sample Zone Group:nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9: Sample Zone 1') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1:20210527171628c9') / Zones ('config: Sample Zone Group: nqn. 1988-11. com. dell: SFSS: 1988-11. com. del$

ZoneMembers?\$source=config&\$expand=ZoneMembers

```
"ZoneMembers": [
"Role": "Subsystem",
"ZoneMemberId": "config:SampleZoneGroup:nqn.1988-11.com.dell:
SFSS:1:20210527171628c9:SampleZone1:nqn.2014-08.org.nvmexpress:uuid:host:
TCP:Ipv4:1.1.1:3000",

"ZoneMemberType": "FullQualifiedName",

"@odata.id": "/redfish/v1/SFSS/1/ZoneDBs('config')/ZoneGroups
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:
/$metadata#ZoneMembers/ZoneMembers/$entity"
           "Role": "Subsystem",
"ZoneMemberId": "config:SampleZoneGroup:nqn.1988-11.com.dell:
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')
/$metadata#ZoneMembers/ZoneMembers/$entity"
           "Role": "Subsystem",
"ZoneMemberId": "config:SampleZoneGroup:nqn.1988-11.com.dell:
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:ngn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')
'config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9')/Zones
('config:SampleZoneGroup:nqn.1988-11.com.dell:SFSS:1:20210527171628c9:SampleZone1')/$metadata#ZoneMembers/ZoneMembers/$entity"
```

GET API for ZoneMember Enums

Description

Retrieves expanded zone member information and functionality. The response goes to a JSON file.

Privilege

SysAdmin

Method

GET method for zone member functionality.

URLs

 https://<ip-address>/redfish/v1/SFSS/<Instance#>/ZoneDBs/ZoneGroups/Zones/ZoneMembers/ Enums

```
"Role": [
    "Subsystem",
    "Host"
],
"ZoneMemberType": [
    "ZoneAlias",
    "NQN",
    "FullQualifiedName"
]
```

Dell EMC support

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

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

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

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

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

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

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