HP SOM REST API CLI REFERENCE DOC

REST API IN SOM

Rest API is the SOM interface for integration with the third party applications like UCMDB etc. The API follows simple HTTP GET protocol to get inventory data from SOM with respect to various entities and present to the third party in the form of xml or json .

Supported Data formats:
XML, JSON

Different Type of REST API's

- Bulk API
  - to list all the entities in a system like all hosts , all storageSystems implemented through GET HTTP protocol
- Details API
  - Lists details of individual entity like a host detail , storage System details
- Dependency API
  - These API trace the entire topology path of the entity like from hosts to Switches to arrays with respect to an entity
- Configuration API
  - There will be 2 types of APIs here: set of APIs that read the configuration data and a set of APIs that allow you to add/modify a selected set of configuration information.

REST API related USE Cases targeted (so far)

- UCMDB integration

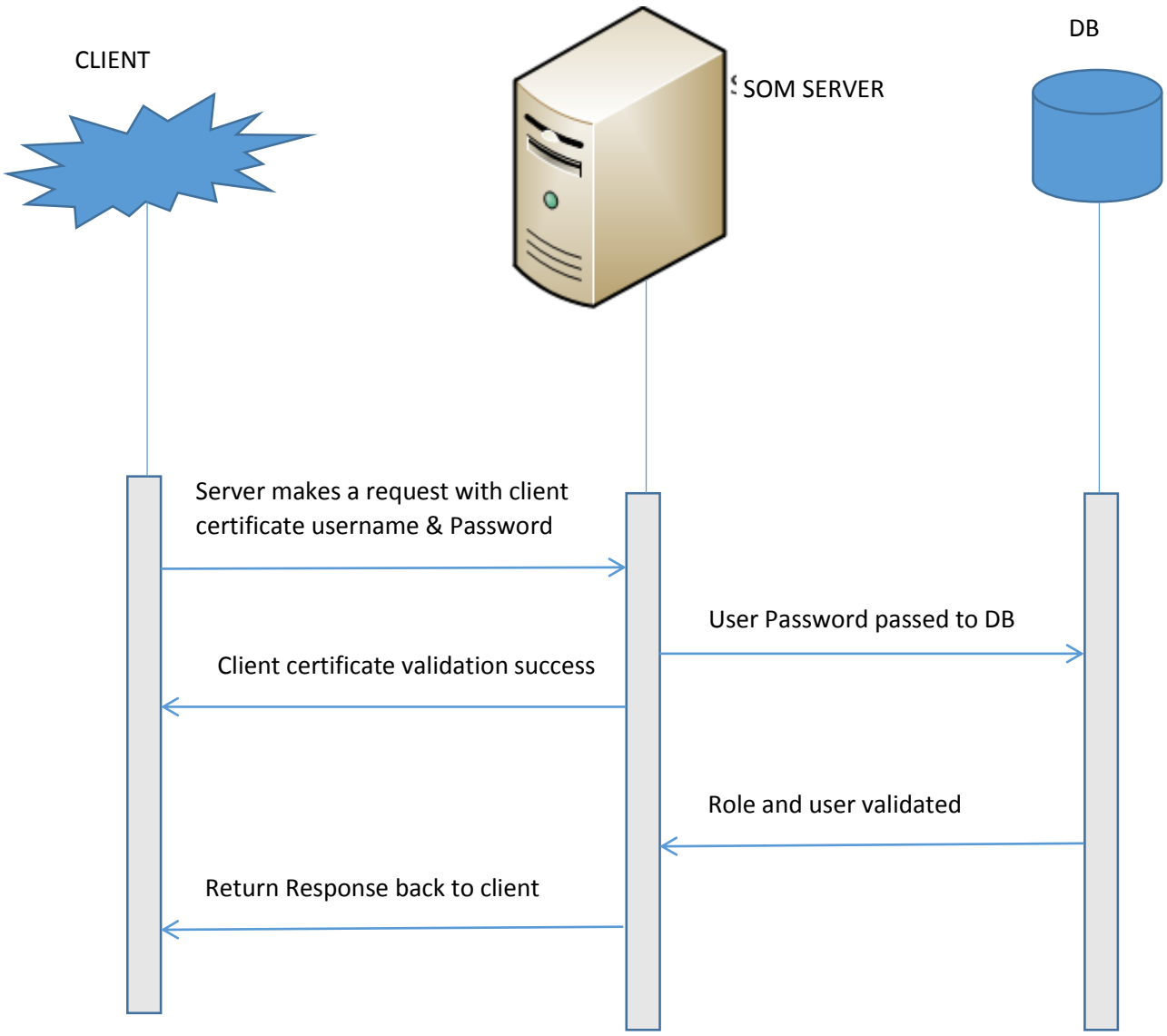
REST API Security Implementation

- **Admin(Except system user)** Group Users have access to **GET**, **POST** Rest API.
- **Web Service Client** Group have access to **GET** Rest API.

Security in REST API are implemented through

1. HTTPS protocol to make the data over the network layer secured
2. Pass the userid /password through the Authorization Header of the Response in an encrypted form
3. Rest Service clients authenticate themselves to the SOM server using a client certificate extracted from the SOM server keystore . This is optional and is left upto the client whether he wants to pass the certificate or not.

4. Once the server validates the client certificate and the userid/password combination from DB and validates the role of web client , the response is sent back to the rest client
5. A brief sequence diagram of the above process is shown below.



REST API DESIGN:

Process to access SOM Rest Service:

1. **Create a user in SOM (SOM-> Configuration-> Security -> User Accounts).**
2. **Mapped that user to web client group (SOM-> Configuration-> Security -> User Account Mapping).**
3. **For accessing service through rest client program required following fields which are given below:**

contentResponeType:xml and json valid contentResponeType
username: Valid SOM Web client "username" used for authentication
password: Valid SOM web client User "password" used for authentication
host: localhost or IpAddress
port: Default as 443 or assign port to SOM
resourceName: Name of Resource like "hosts" or "hosts/{id}" or "storageSystems" or "storageSystems/{id}/volumes" etc..
startRow: Set the first result to be retrieved. (optional parameters for pagination)
NoOfRows: Set a limit upon the number of objects to be retrieved.(optional parameters for pagination).
ConnectionTimeoutinSeconds: Response will come in Expected time otherwise it will timeout.
methodType: Name of the operation such as GET or POST.
contentType: Input data format such as JSON(for POST API)
Map<String,String> JsonObjectParameter: This is for POST API(we have to set only key and value pair)
jsonString :This is for POST API(we have to pass directly jsonString)//optional

EX.

```
WSCertificateClient ws = new WSCertificateClient();
    ws.setAccept("application/xml");
    ws.setConnectionTimeoutinSeconds(60 * 60); //timeout of 1 hr
    ws.setUsername("<username whose role is web service client?");
    ws.setPassword("<password of the user>");
    ws.setHostName("<FQDN name of host>");
    ws.setHttpsPort(<https_port>); //default is 443
    ws.setResourceName("storageSystems");
    ws.setStartRow(0); //optional parameters for pagination
    ws.setNoOfRows(2); //optional parameters for pagination
```

ERROE CODE DESCRIPTION:

Error Handling:

Error handling is an integral part of any API. In case of a REST API, just returning HTTP 500 (INTERNAL ERROR) with a stack trace is not very helpful. APIs should use appropriate HTTP status codes (http://www.w3.org/Protocols/rfc2616/rfc2616-sec10.html) to describe return values. Some examples include:

200 – OK – Everything is working
201 – OK – New resources has been created
204 – OK – The resource was successfully deleted
304 – Not Modified – The client can use cached data
400 – Bad Request – The request was invalid or cannot be served. The exact error should be explained in the error payload. E.g. "The JSON is not valid"
401 – Unauthorized – The request requires an user authentication
403 – Forbidden – The server understood the request, but is refusing it or the access is not allowed. For e.g., POST/PUT methods on the inventory URLs listed above should return a HTTP 403 error.
404 – Not found – There is no resource behind the URI.
422 – Should be used if the server cannot process the entity, e.g. if mandatory fields are missing in the payload.
500 – Internal Server Error – We should avoid this error. If an error occurs in the global catch blog, the stracktrace should be logged and not returned as response.

STORAGE SYSTEMS:-

1. Resource Name:

storageSystems

Request Url:

https://localhost:port/som-ws/rs/storageSystems

Support Method:

GET

Parameter:

type =block/file , offset and limit((by default offset=0 and limit=100))

(If type is block, then API return all block level Storage System,

If type is file, then API return all file System,

If type is empty, then API return all Storage System)

Example:

http://localhost:port/som-ws/rs/storageSystems?type=block

OR

http://localhost:port/som-ws/rs/storageSystems?type=file

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/storageSystems?type=file&offset=0&limit=20

Description:

This API returns StorageSystems details with following Properties

{

"displayName": "",

"serialNumber": "",

"providerName": "",

"description": "",

"status": "",

"persistenceId": "",

"ipaddress":,

"vendor": "",

"uuid": "",

"model": "",

```
    "totalStorageSystemCount": "",
    "iPAddress":,
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "/",
        "rel": ""
      }
    ],
    "cimInstancePath": "",
    "dkcMicrocodeVersion":,
    "hardwareVersion": "",
    "providerTag": ""
  }
```


2.Resource Name:

storageSystem/{id}

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns StorageSystems details identified by {id} with following Properties


```
{
   "displayName": "",
   "serialNumber": "",
   "providerName": "",
   "description": "",
   "status": "",
   "persistenceId": "",
   "ipaddress":,
   "vendor": "",
   "uuid": "",
   "model": "",
   "totalStorageSystemCount":,
   "iPAddress":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
```

```
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "cimInstancePath": "",
    "dkcMicrocodeVersion":,
    "hardwareVersion": "",
    "providerTag": ""
}
```


3.Resource Name:

storageSystems/processors

Method:

GET

Parameter:

offset and limit ((by default offset=0 and limit=100))

Request Url:

http://localhost:port/som-ws/rs/storageSystems/processors

Request Content:

NA

Response Content:

Xml/json

Pagination Support:

YES

Example:

http://localhost:port/som-ws/rs/storageSystems/processors?offset=0&limit=20

Description:

This API returns processors details of all Storage Systems with following Properties

{

"name": "",

"serialNumber":,

"description": "",

"status": "",

"persistenceId": "",

"roles": null,

"containerId": "",

"ipaddress":,

"vendor":,

"model":,

"dns":,

"resetCapabilities":,

"powermanagement":,

"totalStorageProcessorCount":,

"deviceModelId": "",

"createdTime":,

"wwn":,

"links":,

"dkcMicrocodeVersion":,

"providerTag": " "

}

4.Resource Name:

storageSystem/{sid}/processor

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/processor

Request Content:

NA

Response Content:

Xml/json

Description:

This API returns processors details of particular Storage Systems identified by {id} with following Properties

{

"name": "",

```
    "serialNumber": "",
    "description": "",
    "status": "",
    "persistenceId": "",
    "roles":,
    "containerId": "",
    "ipaddress":,
    "vendor":,
    "model": "",
    "dns":,
    "resetCapabilities":,
    "powermanagement":,
    "totalStorageProcessorCount":,
    "deviceModelId": "",
    "createdTime":,
    "wwn":,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "/",
            "rel": ""
        }
    ],
    "dkcMicrocodeVersion":,
    "providerTag": ""
}
```


5.Resource Name:

storageSystem/{sid}/processor/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/processor{id}

Request Content:

NA

Response Content:

Xml/json

Description:

This API returns particular processor details of particular Storage Systems identified by {id} with following Properties:


```
{
   "name": "",
   "serialNumber": "",
   "description": "",
   "status": "",
   "persistenceId": "",
   "roles":,
   "containerId": "",
   "ipaddress":,
   "vendor":,
   "model": "",
   "dns":,
   "resetCapabilities":,
   "powermanagement":,
   "totalStorageProcessorCount":,
   "deviceModelId": "",
   "createdTime":,
   "wwn":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
```

"href": "",

"rel": ""

}

],

"dkcMicrocodeVersion":,

"providerTag": ""

}

6. Resource Name:

storageSystem/{sid}/processor/{id}/fcports

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/processor/{id}/fcports

Request Content:

NA

Response Content:

xml/json

Description:

This API returns fcports details of particular processor with Storage Systems identified by {id} with following Properties

{

"name": "",

"description": "",

"status": "",

"persistenceId": "",

"portNumber": ,

"containerId": "",

```
    "slpr":,
    "clpr":,
    "portType": "",
    "portState": "",
    "nasContainerId":,
    "connectedToWWN":,
    "parentSystemId": "",
    "totalStoragePortCount":,
    "portRole":,
    "deviceModelId": "",
    "linkTechnology": "",
    "wwn": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "portSpeedGBPS": ,
    "portMaxSpeedGBPS":
  }
```


7. Resource Name:

storageSystem/{sid}/processor/{pid}/fcport/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/processor/{pid}/fcport/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular FC port on storage processor {pid} of storage system identified by {sid} with following Properties


```
{
   "name": "",
   "description": "",
   "status": "",
   "containerId": "",
   "portNumber":,
   "wwn": "",
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ],
   "persistenceId": "",
   "deviceModelId": "",
   "linkTechnology": "",
   "slpr":,
```

"clpr":,

"portType": "",

"portState":,

"nasContainerId":,

"connectedToWWN":,

"portSpeedGBPS": ,

"portMaxSpeedGBPS": ,

"portRole":

}

8. Resource Name:

storageSystems/fcports

Method:

GET

Parameter:

offset and limit(by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/storageSystems/fcports

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/storageSystems/fcports?offset=0&limit=20

Description:

This API returns all FC ports of all storage systems with following Properties

{

```
    "name": "",
    "description": "",
    "status": "",
    "containerId": "",
    "portNumber":,
    "wwn": "",
    "links":,
    "persistenceId": "",
    "deviceModelId": "",
    "linkTechnology": "",
    "slpr": "",
    "clpr":,
    "portType": "",
    "portState":,
    "nasContainerId":,
    "connectedToWWN":,
    "portSpeedGBPS": ,
    "portMaxSpeedGBPS":,
    "portRole":
}
```


9. Resource Name:

storageSystems/{id}/fcports

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{id}/fcports

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all FC ports of a particular storage systems identified by {id} with following Properties


```
{
    "name": " ",
    "description": "",
    "status": "",
    "containerId": "",
    "portNumber":,
    "wwn": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "persistenceId": "",
    "deviceModelId": "",
    "linkTechnology": "",
    "slpr":,
    "clpr":,
```

"portType": "",

"portState":,

"nasContainerId":,

"connectedToWWN":,

"portSpeedGBPS": ,

"portMaxSpeedGBPS": ,

"portRole":

}

11. Resource Name:

storageSystem/{sid}/fcport/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/fcport/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular FC port of storage system identified by {sid} with following Properties

{

"name": "",

"description": "",

"status": "",

"containerId": "",

"portNumber":,

```
  "wwn": "",
  "links": [
    {
      "href": "",
      "rel": ""
    }
  ],
  "persistenceId": "",
  "deviceModelId": "",
  "linkTechnology": "",
  "slpr":,
  "clpr":,
  "portType": "",
  "portState":,
  "nasContainerId":,
  "connectedToWWN":,
  "portSpeedGBPS": ,
  "portMaxSpeedGBPS": ,
  "portRole":
}
```


12. Resource Name:

storageSystems/volumes

Method:

GET

Parameter:

offset and limit ((by default offset=0 and limit=100))

Request Url:

http://localhost:port/som-ws/rs/storageSystems/volumes

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/storagesystems/volumes?offset=1&limit=20

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all volumes on all storage systems with following Properties

{

"description": "",

"status": "",

"accessType": "",

"blockSize":,

"links": null,

"persistenceId": "",

"deviceModelId": "",

"storagePool": "",

"noSinglePointOfFailure":,

"consumableBlocks":,

"availability":,

"actualBlocks":,

"dataRedundancy": ,

"numberOfBlocks":,

"volumeName": "",

"raidType": "",

"volumeType": "",

"usedBlocks":,

"deviceId": "",

"statusInfo": "",

"rawSpace":,

"recordCreated":,

"poolId": ""

}

13. Resource Name:

storageSystem/{id}/volumes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{id}/volumes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all volumes of particular storage system identified by {id} with following Properties

{

"description": "",

"status": "",

"accessType": "",

"blockSize":,

"links":,

"persistenceId": "",

```
    "deviceModelId": "",
    "storagePool": "",
    "noSinglePointOfFailure":,
    "consumableBlocks":,
    "availability":,
    "actualBlocks":,
    "dataRedundancy": ,
    "numberOfBlocks":,
    "volumeName": "",
    "raidType": "",
    "volumeType": "",
    "usedBlocks":,
    "deviceId": "",
    "statusInfo": "",
    "rawSpace":,
    "recordCreated":,
    "poolId": ""
  }
```


14. Resource Name:

storageSystems/{sid}/volume/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/volume/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular volumes of particular storage system identified by {id} with following Properties


```
{
   "description": "",
   "blockSize":,
   "status": "",
   "accessType": "",
   "deviceModelId": "",
   "storagePool": "",
   "noSinglePointOfFailure":,
   "consumableBlocks":,
   "availability":,
   "actualBlocks":,
   "dataRedundancy": 1,
   "numberOfBlocks":,
   "volumeName": "",
   "poolId": "",
   "persistenceId": "",
   "raidType": "",
   "volumeType": "",
   "usedBlocks":,
   "deviceId": "",
   "statusInfo": "",
   "rawSpace":,
   "links": [
      {
```

```
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
   ],
   "recordCreated":
}
```


15. Resource Name:

storageSystems/{sid}/volume/{vid}/diskdrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/volume/{vid}/diskdrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular volumes of particular storage system identified by {id} with following Properties:


```
{
    "serialNumber":,
    "diskType":,
```

```
    "description": "",
    "status": "",
    "model": "",
    "minimumBlockSize":,
    "maximumAccessTime":,
    "enabledStatus": "",
    "maximumMediaSize":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "architecture": "",
    "uncompressedDataRate":,
    "vendor":,
    "scsiport":,
    "scsibus":,
    "persistenceId": "",
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":,
    "displayname": "",
    "compressionMethodology":,
    "scsitargetID":,
    "rpm":
}
```


16. Resource Name:

storageSystems/pools

Method:

GET

Parameter:

offset and limit(by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/storageSystems/pools

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/storagesystems/pools?offset=1&limit=20

Description:

This API returns pools of all storage system with following Properties:

{

"name": "",

"totalSpace":,

"displayName": "",

"description":,

"exported":,

"deviceModelId": "",

"defaultNoSinglePointOfFailure":,

"unMapped":,

"noSinglePointOfFailure":,

"availableSpace":,

```
    "spaceLimitDetermination": ,
    "maxDataRedundancy": ,
    "defaultSpindleRedundancy":,
    "maxSpindleRedundancy": ,
    "minDataRedundancy": ,
    "minSpindleRedundancy": ,
    "links":,
    "usedSpace":,
    "cimPoolId": "",
    "poolType": "",
    "spaceLimit":,
    "persistenceId": "",
    "composition": "",
    "provisioned":,
    "recordCreated":,
    "storageCapabilityName": "",
    "parentPoolId": ""
}
```


17. Resource Name:

storageSystem/{id}/pools

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{id}/pools

Request Content:

NA

Response Content:

xml/json

Description:

This API returns pools of particular storage system with following Properties:


```
{
    "name":,
    "totalSpace":,
    "displayName": " ",
    "description": "",
    "exported": ,
    "deviceModelId": "",
    "defaultNoSinglePointOfFailure":,
    "unMapped":,
    "noSinglePointOfFailure":,
    "availableSpace":,
    "spaceLimitDetermination": ,
    "maxDataRedundancy":,
    "defaultSpindleRedundancy":,
    "maxSpindleRedundancy":,
    "minDataRedundancy":,
    "minSpindleRedundancy":,
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
```

```
            "href": "",
            "rel": ""
        }
    ],
    "usedSpace": ,
    "cimPoolId": "",
    "poolType": "",
    "spaceLimit":,
    "persistenceId": "",
    "composition": "",
    "provisioned": ,
    "recordCreated":,
    "storageCapabilityName":,
    "parentPoolId":
}
```


18. Resource Name:

storageSystem/{id}/pools/{pid}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystem/{sid}/pool/{pid}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular pool of particular storage system by {id} with following Properties:


```
{
   "name":,
   "totalSpace":,
   "displayName": " ",
   "description": "",
   "exported": ,
   "deviceModelId": "",
   "defaultNoSinglePointOfFailure":,
   "unMapped": ,
   "noSinglePointOfFailure":,
   "availableSpace":,
   "spaceLimitDetermination": ,
   "maxDataRedundancy":,
   "defaultSpindleRedundancy":,
   "maxSpindleRedundancy":,
   "minDataRedundancy":,
   "minSpindleRedundancy":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
```

```
        {
            "href": "",
            "rel": ""
        }
    ],
    "usedSpace": ,
    "cimPoolId": "",
    "poolType": " ",
    "spaceLimit":,
    "persistenceId": "",
    "composition": "",
    "provisioned": ,
    "recordCreated":,
    "storageCapabilityName":,
    "parentPoolId":
}
```


19. Resource Name:

storageSystems/{sid}/pools/{id}/volumes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/pools/{id}/volumes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all Volumes of a particular pool of particular storage system with following Properties:


```
{
    "description": "",
    "status": "",
    "accessType": "",
    "deviceModelId": "",
    "blockSize":,
    "availability":,
    "consumableBlocks":,
    "numberOfBlocks":,
    "storagePool": "",
    "noSinglePointOfFailure":,
    "actualBlocks":,
    "dataRedundancy": ,
    "links": [
       {
          "href": "",
          "rel": ""
       }
    ],
    "volumeName": "",
    "statusInfo": "",
    "deviceId": "",
    "raidType": "",
    "volumeType": "",
    "usedBlocks":,
    "rawSpace":,
```

"persistenceId": "",

"recordCreated":,

"parentSystemId": "",

"poolId": ""

}

20. Resource Name:

storageSystems/{sid}/pools/{id}/poolSettings

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/pools/{id}/poolSettings

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all poolSettings of a particular pool of particular storage system with following Properties:

{

"name": "",

"defaultNoSinglePointOfFailure":,

"noSinglePointOfFailure":,

"maxDataRedundancy": ,

"defaultSpindleRedundancy":,

"maxSpindleRedundancy": ,

"minDataRedundancy": ,

```
    "minDeltaReservation":,
    "maxDeltaReservation":,
    "defaultDeltaReservation":,
    "minSpindleRedundancy": ,
    "defaultDataRedundancy":,
    "links": [
       {
          "href": "",
          "rel": ""
       },
       {
          "href": "",
          "rel": "self"
       }
    ],
    "persistenceId": ""
 }
```


21. Resource Name:

storageSystems/{sid}/pools/{id}/poolSettings/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/pools/{id}/poolSettings{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular poolSettings of pool by {id} of particular storage system with following Properties:


```
{
   "name": "",
   "defaultNoSinglePointOfFailure":,
   "noSinglePointOfFailure":,
   "maxDataRedundancy": ,
   "defaultSpindleRedundancy":,
   "maxSpindleRedundancy": ,
   "minDataRedundancy": ,
   "minDeltaReservation":,
   "maxDeltaReservation":,
   "defaultDeltaReservation":,
   "minSpindleRedundancy": ,
   "defaultDataRedundancy":,
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ],
   "persistenceId": ""
}
```


22. Resource Name:

storagesystems/{sid}/diskDrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storagesystems/{sid}/diskDrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all disk Drives of particular storage system with following Properties:


```
{
    "serialNumber": "",
    "description": "",
    "status": "",
    "model": "",
    "minimumBlockSize":,
    "maximumAccessTime":,
    "enabledStatus": "",
    "maximumMediaSize":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "architecture":,
    "uncompressedDataRate":,
    "links": [
      {
        "href": "",
```

```
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "vendor": "",
    "scsiport":,
    "scsibus":,
    "persistenceId": "",
    "recordCreated":,
    "displayname": "",
    "compressionMethodology":,
    "scsitargetID":,
    "rpm":,
    "diskType": ""
}
```


23. Resource Name:

storageSystems/{sid}/diskDrives/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/diskDrives/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular disk Drives of particular storage system with following Properties:


```
{
    "serialNumber": "",
    "description": "",
    "status": "",
    "model": "",
    "minimumBlockSize":,
    "maximumAccessTime":,
    "enabledStatus": "",
    "maximumMediaSize":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "architecture":,
    "uncompressedDataRate":,
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
```

"vendor": "",

"scsiport":,

"scsibus":,

"persistenceId": "",

"recordCreated":,

"displayname": "",

"compressionMethodology":,

"scsitargetID":,

"rpm":,

"diskType": ""

}

24. Resource Name:

storageSystems/{sid}/diskDrives/{id}/volumes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/diskDrives/{id}/volumes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all volumes of particular disk drive identified by {id} of host identified by {hid} with following Properties:

{

"description": "",

```
"status": "",
"accessType": "",
"blockSize":,
"deviceModelId": "",
"storagePool": "",
"noSinglePointOfFailure":,
"consumableBlocks":,
"availability": "",
"actualBlocks":,
"dataRedundancy": ,
"numberOfBlocks":,
"raidType": "",
"volumeType": "",
"usedBlocks":,
"deviceId": "",
"statusInfo": "",
"rawSpace":,
"persistenceId": "",
"links": [
   {
      "href": "",
      "rel": ""
   }
],
"parentSystemId": "",
"recordCreated":,
"totalStorageVolumeCount":,
"poolId": "",
```

"volumeName": ""

}

25. Resource Name:

storageSystems/{sid}/diskDrives/{id}/storageExtents

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/diskDrives/{id}/storageExtents

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all storage extents that disk drive identified by {id} for storageSystems identified by {sid} with following properties.

{

"displayName": "",

"description": "",

"status":,

"accessType":,

"blockSize":,

"extentType": ,

"consumableBlocks":,

"sequentialAccess":,

"controllerName":,

"dataOrganization": " ",

```
    "numberOfBlocks":,
    "slpr": "",
    "clpr": "",
    "persistenceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      }
    ],
    "recordCreated":
  }
```


26. Resource Name:

storageSystems/{id}/protocolControllers

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{id}/protocolControllers

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all protocol controllers (HSGs) of a particular storage system {id} with following properties.

{

```
    "name": "",
    "description":,
    "vendor":,
    "hostMode":,
    "persistenceId": "",
    "model": ,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "createdTime":
}
```


27. Resource Name:

storageSystems/{sid}/protocolControllers/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/protocolControllers/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular protocol controller details on storage system {sid} with following properties.


```
{
   "name": "",
   "description":,
   "vendor":,
   "hostMode":,
   "persistenceId": "",
   "model": 0,
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ],
   "createdTime":
}
```


28. Resource Name:

storageSystems/{id}/storageExtents

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{id}/storageExtents

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all storage extents of storage system identified by {id}.


```
{
    "displayName": "",
    "description": "",
    "status":,
    "accessType": "",
    "blockSize":,
    "extentType": ,
    "consumableBlocks":,
    "sequentialAccess":,
    "controllerName":,
    "dataOrganization": "",
    "numberOfBlocks":,
    "slpr": "",
    "clpr": "",
    "persistenceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
```

```
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":
}
```


29. Resource Name:

storageSystems/{sid}/storageExtents/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/storageSystems/{sid}/storageExtents/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular storage extents of storage system identified by {id}.


```
{
    "displayName": "",
    "description": "",
    "status":,
    "accessType": "",
    "blockSize":,
    "extentType": ,
```

```
  "consumableBlocks":,
  "sequentialAccess":,
  "controllerName":,
  "dataOrganization": "",
  "numberOfBlocks":,
  "slpr": "",
  "clpr": "",
  "persistenceId": "",
  "links": [
    {
      "href": "",
      "rel": ""
    }
  ],
  "recordCreated":
}
```


30. Resource Name:

storageSystems/dependencies

Method:

GET

Parameter:

offset and limit(by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/storageSystems/dependencies

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/storagesystems/dependencies?offset=1&limit=20

Description:

This API returns dependent switches and hosts for storage systems with following properties.


```
{
    "targetPort": "",
    "parentSystem": "",
    "initiatorSwitch":,
    "targetSwitch":,
    "targetDeviceId": "",
    "initiatorPort": "",
    "targetSwitchPort":,
    "initiatorSwitchPort":,
    "diskDriveId":,
    "targetVolumeId": "",
    "extentId": ""
  }
```


SWITCHES:

1. Resource Name:

switches

Request Url:

http://localhost:port/som-ws/rs/switches

Support Method:

GET

Parameter:

type =physical/virtual , offset and limit ((by default offset=0 and limit=100))

(If type is physical, then API return all physical switches,

If type is virtual, then API return all virtual switches,

If type is empty, then API return both physical & virtual switches)

Example:

http://localhost:port/som-ws/rs/switches?type=physical

OR

http://localhost:port/som-ws/rs/switches?type=virtual

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

http://localhost:port/som-ws/rs/switches?type=physical&offset=0&limit=50

Description:

This API returns all Switches details with following Properties

{

"displayName": "",

"virtual":,

"providerName": "",

"role": "",

"status": "",

```
"vendor": "",
"uuid":,
"wwn": "",
"dnsname": "",
"ipaddress": "",
"cimInstancePath": "",
"manufactureDate":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"managementURL":,
"last_contacted":,
"parentPersistenceId": "",
"switch_state": "",
"totalSwitchCount":,
"model": "",
"domainId":,
"ipnetMask":,
"fcnetMask":,
"fcnetAddress":,
"hardwareZoningCapabilities":,
```

"softwareZoningCapabilities": ,

"maxNumberOfModules": ,

"currentZoningEnforcement":,

"manufacturerSerialNumber": "",

"vendorSerialNumber": "",

"firmwareVersion": "",

"fabricID": "",

"ipGateWay":,

"persistenceId": ""

}

2. Resource Name:

switches/{id}

Request Url:

http://localhost:port/som-ws/rs/switches/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular Switch details identified by {id} with following Properties

{

"displayName": "",

"virtual":,

"providerName": "",

"status": "",

"dnsname": "",

"model": "",

"role": "",

"last_contacted":,

"parentPersistenceId": "",

"switch_state": "",

"persistenceId": "",

"fabricID": "",

"ipGateWay":,

"vendor": "",

"uuid":,

"ipaddress": "",

"wwn": "",

"domainId": ,

"ipnetMask":,

"fcnetMask":,

"fcnetAddress":,

"hardwareZoningCapabilities":,

"softwareZoningCapabilities":,

"maxNumberOfModules": ,

"currentZoningEnforcement":,

"manufacturerSerialNumber": "",

"vendorSerialNumber": "",

"firmwareVersion": "",

"cimInstancePath": "",

"manufactureDate":,

```
   "managementURL":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      }
   ]
}
```


3. Resource Name:

switches/{id}/virtualSwitches

Request Url:

http://localhost:port/som-ws/rs/switches/{id}/virtualSwitches

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns All virtual switches for the physical switch identified by {id} with following Properties:

{

"displayName": "",

"virtual":,

"providerName": "",

"status": "",

"dnsname": "",

"model": "",

"role": "",

"last_contacted":,

"parentPersistenceId": "",

"switch_state": "",

"persistenceId": "",

"fabricID": "",

"ipGateWay":,

"vendor": "",

"uuid":,

"ipaddress": "",

"wwn": "",

"domainId": ,

"ipnetMask":,

"fcnetMask":,

```
    "fcnetAddress":,
    "hardwareZoningCapabilities":,
    "softwareZoningCapabilities":,
    "maxNumberOfModules": ,
    "currentZoningEnforcement":,
    "manufacturerSerialNumber": "",
    "vendorSerialNumber": "",
    "firmwareVersion": "",
    "cimInstancePath": "",
    "manufactureDate":,
    "managementURL":,
    "links": [
      {
        "href": "",
        "rel": ""
      }
    ]
  }
```


4. Resource Name:

switches/{id}/fabric

Request Url:

http://localhost:port/som-ws/rs/switches/{id}/fabric

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns All fabric for a particular switch identified by {id} with following Properties:


```
{
   "displayName": "",
   "providerName": "",
   "persistenceId": "",
   "vendor":,
   "uuid":,
   "wwn": "",
   "cimInstancePath": "",
   "fabricName":,
   "virtualFabricId": ,
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ]
}
```


5. Resource Name:

switches/fcports

Request Url:

http://localhost:port/som-ws/rs/switches/fcports

Support Method:

GET

Parameter:

offset and limit((by default offset=0 and limit=100))

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/switches/fcports?offset=1&limit=30

Description:

This API returns All fc ports on all switches with following Properties


```
{
    "displayName": "",
    "description":,
    "providerName": "",
    "status": "",
    "containerId": "",
    "cimInstancePath": "",
    "vendor":,
    "modelType":,
    "uuid": "",
    "ipaddress":,
    "wwn": "",
    "dnsname":,
    "portType": "",
    "portState": "",
    "portSpeed":,
```

```
    "links":,
    "persistenceId": "",
    "portMaxSpeed":,
    "linkTechnology": "",
    "connectedToWwn": [
        ""
    ],
    "": [
        ""
    ],
    "portnumber": ,
    "trunkingState":
}
```


6. Resource Name:

switches/{id}/fcports

Request Url:

http://localhost:port/som-ws/rs/switches/{id}/fcports

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns All fc ports on particular switch identified by {id} with following Properties

```
{
    "displayName": "",
    "description":,
    "providerName": "",
    "status": "",
    "containerId": "",
    "cimInstancePath": "",
    "vendor":,
    "modelType":,
    "uuid": "",
    "ipaddress":,
    "wwn": "",
    "dnsname":,
    "portType": "",
    "portState": "",
    "portSpeed":,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
```

"persistenceId": "",

"portMaxSpeed":,

"linkTechnology": "",

"connectedToWwn":,

"portSymbolicName":,

"portnumber": ,

"trunkingState":

}

7. Resource Name:

switches/{sid}/fcports/{id}

Request Url:

http://localhost:port/som-ws/rs/switches/{sid}/fcports/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular fc ports {id} on particular switch identified by {id} with following Properties:

{

"displayName": "",

"description": ,

"providerName": "",

```
"status": "",
"containerId": "",
"cimInstancePath": "",
"vendor":,
"modelType":,
"uuid": "",
"ipaddress":,
"wwn": "",
"dnsname":,
"portType": "",
"portState": "",
"portSpeed":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"persistenceId": "",
"portMaxSpeed":,
"linkTechnology": "",
"connectedToWwn":,
```

"portSymbolicName":,

"portnumber":,

"trunkingState":

}

8. Resource Name:

switches/{id}/fcports/{id}/connectedPorts

Request Url:

http://localhost:port/som-ws/rs/switches/{sid}/fcports/{id}/connectedPorts

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns device(s) connected to particular fc port {id} on particular switch identified by {id} with following Properties:

{

"displayName": "",

"providerName": "",

"description":,

"status":,

"containerId":,

"cimInstancePath":,

"portMaxSpeed":,

```
    "linkTechnology":,
    "vendor":,
    "modelType":,
    "uuid": "",
    "ipaddress":,
    "wwn":,
    "dnsname":,
    "portType":,
    "portState":,
    "portSpeed":,
    "persistenceId": "",
    "trunkingState":,
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "connectedToWwn":,
    "portSymbolicName":,
    "portnumber":
}
```


9. Resource Name:

switches/switchConfigStats

Request Url:

http://localhost:port/som-ws/rs/switches/switchConfigStats

Support Method:

GET

Parameter:

offset and limit((by default offset=0 and limit=100))

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/switches/switchConfigStats?offset=1&limit=20

Description:

This API returns all switchConfigStats for all virtual switches with following Properties:

{

"switchId": "19327357514",

"freePorts": 10,

"usedPorts": 22,

"totalPorts": 32

“totalSwitchConfigStatsCount”:,

}

10. Resource Name:

switches/{id}/switchConfigStats

Request Url:

http://localhost:port/som-ws/rs/switches/{id}/switchConfigStats

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular switchConfigStats on particular switch on {id} with following Properties:


```
{
    "switchId": "19327357514",
    "freePorts": 10,
    "usedPorts": 22,
    "totalPorts": 32
}
```


11. Resource Name:

switches/Utilization

Request Url:

http://localhost:port/som-ws/rs/switches/Utilization

Support Method:

GET

Parameter:

offset and limit((by default offset=0 and limit=100))

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/switches/Utilization?offset=0&limit=75

Description:

This API returns Utilization details for all physical switch with following Properties

{

"switchId": "2147518278",

"freePorts": 10,

"usedPorts": 22,

"totalPorts": 32

“totalSwitchConfigStatsCount”:,

}

12. Resource Name:

switches/{id}/Utilization

Request Url:

http://localhost:port/som-ws/rs/switches/{id}/Utilization

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns Utilization details for physical switch identified by {id} with following Properties:

{

"switchId": "2147510776",

"usedPorts": 12,

"freePorts": 12,

"totalPorts": 24

}

13. Resource Name:

switches/UtilizationDetails

Request Url:

http://localhost:port/som-ws/rs/switches/UtilizationDetails

Support Method:

GET

Parameter:

type=physical/virtual

offset and limit((by default offset=0 and limit=100))

Example:

http://localhost:port/som-ws/rs/switches/UtilizationDetails?type=physical

OR

http://localhost:port/som-ws/rs/switches/UtilizationDetails?type=virtual

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

http://localhost:port/som-ws/rs/switches/UtilizationDetails?type=virtual?offset=1&limit=20

Description:

This API returns UtilizationDetails for all switches based on type with following Properties:

{

"switchId": "",

"usedPorts":,

"freePorts":,

"totalPorts":

“totalSwitchConfigStatsCount”:,

}

FABRICS:

1. Resource Name:

Fabrics

Request Url:

http://localhost:port/som-ws/rs/fabrics

Support Method:

GET

Parameter:

offset and limit((by default offset=0 and limit=100))

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/fabrics?offset=0&limit=20

Description:

This API returns all the fabrics with following Properties


```
{
    "displayName": "",
    "providerName": "",
    "vendor":,
    "uuid":,
    "wwn": "",
    "cimInstancePath": "",
    "fabricName":,
    "links": [
      {
        "href": "",
        "rel": ""
```

```
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "totalFabricsCount": "",
    "virtualFabricId": ,
    "persistenceId": ""
}
```


2. Resource Name:

Fabrics/{id}

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular fabric details with following Properties


```
{
    "displayName": "",
    "providerName": "",
```

```
"wwn": "",
"vendor":,
"uuid":,
"cimInstancePath": "",
"persistenceId": "",
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
```

```
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "virtualFabricId": ,
    "fabricName":
}
```


3. Resource Name:

fabrics/{id}/hosts

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/hosts

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hosts that are part of the fabric {id}.


```
{
    "displayName": "",
    "serialNumber": "",
```

```
"providerName": "",
"description": "",
"model": "",
"cluster":,
"collectionStatus": "",
"dataCenterName":,
"dataCenterMORID":,
"totalPhysicalMemory":,
"processorCount": ,
"operatingSystem": "",
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName": "",
"links": [
    {
        "href": "",
        "rel": ""
    }
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion": "",
"virtualServer": false,
"identifyingDescription": "",
"virtualMachineState":,
```

"dataCenterMORId":,

"totalHostCount":,

"iPAddress": "",

"oSVersion": ""

}

4. Resource Name:

fabrics/{id}/switches

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/switches

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all switches that are part of the fabric {id} with following properties.

{

"displayName": "",

"virtual":,

"providerName": "",

"status": "",

"domainId": ,

"ipnetMask":,

"fcnetMask":,

```
"switchId": ,
"ipaddress": "",
"wwn": "",
"dnsname": "",
"vendor": "",
"uuid":,
"manufactureDate":,
"managementURL":,
"cimInstancePath": "",
"role": "",
"persistenceId": "",
"model": "",
"fcnetAddress":,
"hardwareZoningCapabilities":,
"softwareZoningCapabilities":,
"maxNumberOfModules": ,
"currentZoningEnforcement":,
"manufacturerSerialNumber": "",
"vendorSerialNumber": "",
"firmwareVersion": "",
"links": [
    {
        "href": "",
        "rel": ""
    }
],
"last_contacted":,
"parentPersistenceId": "",
```

"switch_state": "",

"fabricID": "",

"ipGateWay":

}

5. Resource Name:

fabrics/{id}/storagesystems

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/storagesystems

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all storage systems that are part of the fabric {id} with following properties.

{

"displayName": "",

"serialNumber": "",

"providerName": "",

"description": "",

"status": "",

"ipaddress":,

"vendor": " ",

"uuid": "",

```
    "hardwareVersion": "",
    "providerTag": "",
    "cimInstancePath": "",
    "persistenceId": "",
    "model": "",
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "dkcMicrocodeVersion": ""
}
```


6. Resource Name:

fabrics/{id}/zonesets

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zonesets

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all zone sets in the fabric {id} with following properties.

```
{
    "name": "",
    "description": "",
    "fabric": "",
    "vendor":,
    "active":,
    "cimInstancePath": "",
    "persistenceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "caption":,
    "recordCreated":,
    "zoneType":,
    "protocolType":
  }
```


7. Resource Name:

fabrics/{fid}/zoneset/{id}

Request Url:

http://localhost:port/som-ws/rs/fabrics/{fid}/zonesets/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular zone set {id} in the fabric {fid} with following properties.


```
{
   "name": "",
   "description": "",
   "fabric": "",
   "vendor":,
   "active":,
   "cimInstancePath": "",
   "persistenceId": "",
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      }
   ],
```

"caption":,

"recordCreated":,

"zoneType":,

"protocolType":

}

8. Resource Name:

fabrics/{fid}/zonesets/{id}/zones

Request Url:

http://localhost:port/som-ws/rs/fabrics/{fid}/zonesets/{id}/zones

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all zones of particular zone set {id} in the fabric {fid} with following properties.

{

"name": "",

"description":,

"fabric": "",

"vendor":,

"active":,

"cimInstancePath": "",

"persistenceId": "",

```
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "caption":,
    "recordCreated":,
    "zoneType": "",
    "protocolType":
}
```


9. Resource Name:

fabrics/{fid}/zonesets/{id}/zones

Request Url:

http://localhost:port/som-ws/rs/fabrics/{fid}/zonesets/{id}/zones

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all zones of particular zone set {id} in the fabric {fid} with following properties.


```
{
    "name": "",
```

```
    "description":,
    "fabric": "",
    "vendor":,
    "active":,
    "cimInstancePath": "",
    "persistenceId": "",
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "caption":,
    "recordCreated":,
    "zoneType": "",
    "protocolType":
}
```


10. Resource Name:

fabrics/{id}/zones

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zones

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all zones of particular zone set {id} in the fabric {fid} with following properties.


```
{
    "name": "",
    "description":,
    "fabric": "",
    "vendor":,
    "active":,
    "cimInstancePath": "",
    "persistenceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "caption":,
    "recordCreated":,
    "zoneType": "",
    "protocolType":
  }
```

11. Resource Name:

fabrics/{fid}/zones/{id}

Request Url:

http://localhost:port/som-ws/rs/fabrics/{fid}/zones/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular zone {id} details in the fabric {fid} with following properties.


```
{
   "name": "",
   "description":,
   "fabric": "",
   "vendor":,
   "active":,
   "cimInstancePath": "",
   "persistenceId": "",
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
```

```
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "caption":,
    "recordCreated":,
    "zoneType": "",
    "protocolType":
}
```


12. Resource Name:

fabrics/{id}/zones/{id}/fcports

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zones/{id}/fcports

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all FC ports in zone {id} in the fabric {fid} with following properties.

```
{
    "displayName":,
    "providerName":,
    "fabric":,
    "wwn": "",
    "vendor":,
    "cimInstancePath":,
    "links": [
       {
          "href": "",
          "rel": ""
       }
    ]
 }
```


13. Resource Name:

fabrics/{id}/zones/{id}/members

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zones/{id}/members

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all all members (hosts, storage systems, switches) in zone {id} in the fabric {fid} with following properties.


```
{
    "name": "",
    "displayName": "",
    "providerName": "",
    "vendor": null,
    "cimInstancePath": "",
    "model":,
    "links": [
       {
          "href": "",
          "rel": ""
       }
    ],
    "caption":,
    "zoneMemberModifier": ,
    "zoneMemberType": "",
    "memberId": ""
 }
```


14. Resource Name:

fabrics/{id}/zonealiases

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zonealiases

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all zone aliases in the fabric {id} with following properties.


```
{
    "displayName": "",
    "providerName": "",
    "description":,
    "fabric": "",
    "vendor":,
    "cimInstancePath": "",
    "persistenceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "caption":
  }
```


14. Resource Name:

fabrics/{fid}/zonealias/{id}

Request Url:

http://localhost:port/som-ws/rs/fabrics/{fid}/zonealias/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular zone aliases details in the fabric {id} with following properties.


```
{
   "displayName": "",
   "providerName": "",
   "description":,
   "fabric": "",
   "vendor":,
   "cimInstancePath": "",
   "persistenceId": "",
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
```

"rel": ""

}

],

"caption":

}

15. Resource Name:

fabrics/{id}/zonealias/{id}/fcports

Request Url:

http://localhost:port/som-ws/rs/fabrics/{id}/zonealias/{id}/fcports

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all FC ports in zone alias {id} in the fabric {fid} with following properties.

{

"displayName":,

"providerName":,

"fabric":,

"wwn": "",

"vendor":,

"cimInstancePath":,

"links": [

```
        {
           "href": "",
           "rel": ""
        }
     ]
  }
```


HOST:-

1. Resource Name:

hosts

Request Url:

https://localhost:port/som-ws/rs/hosts

Support Method:

GET

Parameter:

status = managed, offset and limit((by default offset=0 and limit=100))

(If status is managed, then API return all managed hosts,

If type is empty,then API return all hosts)

Example:

http://localhost:port/som-ws/rs/hosts?status=managed

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/hosts?offset=1&limit=20

Description:

This API returns hosts details with following Properties


```
{
        "displayName": "",
        "serialNumber": "",
        "description": "",
        "providerName": "",
        "cluster":,
        "model": "",
    “totalHostCount”: ,
        "collectionStatus": "",
        "dataCenterName":,
        "dataCenterMORID":,
        "totalPhysicalMemory":,
        "processorCount": ,
        "operatingSystem": "",
        "processorType":,
        "clusterVersion":,
        "persistenceId": "",
        "vendor": "",
        "links": [
            {
                "href": "",
                "rel": ""
            },
            {
```

```
            "href": "",
            "rel": ""
        }
    ],
    "cimInstancePath": "",
    "recordCreated":,
    "identifyingInfo":,
    "cIMExtensionVersion": "",
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState":,
    "dataCenterMORId":,
    "iPAddress": "",
    "oSVersion": "",
    "dnsName": ""
}
```


2. Resource Name:

hosts/{id}

Request Url:

http://localhost:port/som-ws/rs/hosts/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns hosts details identified by {id} with following Properties


```
{
   "displayName": "",
   "serialNumber": "",
   "description": "",
   "providerName": "",
   "cluster":,
   "model": "",
   "collectionStatus": "",
   "dataCenterName":,
   "dataCenterMORID":,
   "totalPhysicalMemory":,
   "processorCount": ,
   "operatingSystem": "",
   "processorType":,
   "clusterVersion":,
   "persistenceId": "",
   "vendor": "",
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
```

```
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    },
    {
      "href": "",
      "rel": ""
    }
  ],
  "cimInstancePath": "",
  "recordCreated":,
```

```
    "identifyingInfo":,
    "cIMExtensionVersion": "",
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState":,
    "dataCenterMORId":,
    "iPAddress": "",
    "oSVersion": "",
    "dnsName": ""
}
```


3. Resource Name:

hosts/logicalDisks

Method:

GET

Parameter:

Offset and limit(by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/hosts/logicalDisks

Request Content:

NA

Response Content:

Xml/json

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/hosts/logicalDisks?offset=1&limit=20

Description:

This API returns all logicalDisks details of all hosts with following Properties:

```
{
    "displayName": "",
    "description": "",
    "vendor":,
    "access": "",
    "deviceId": "",
    "deviceModelId": "",
    "consumableBlocks":,
    "dataOrganization":,
    "numberOfBlocks":,
    "fileSystemType": "",
    "remoteShareName": "",
    "blockSize": ,
    "links":,
    "recordCreated":,
    "totalSizeGib":,
    "totalHostVolumeCount":,
    "containerId": "",
    "model": ,
    "remoteStorage":,
    "driveType": "",
    "persistenceId": ""
  }
```

4. Resource Name:

hosts/{id}/logicalDisks

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/logicalDisks

Request Content:

NA

Response Content:

Xml/json

Description:

This API returns all logicalDisks details for particular Hosts identified by {id} with following Properties:


```
{
    "displayName": "",
    "description": "",
    "blockSize":,
    "containerId": "",
    "model": ,
    "persistenceId": "",
    "vendor":,
    "access":,
    "deviceId": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
```

```
            "href": "",
            "rel": ""
        }
    ],
    "deviceModelId": "",
    "consumableBlocks":,
    "dataOrganization":,
    "numberOfBlocks":,
    "fileSystemType": "",
    "remoteShareName":,
    "remoteStorage":,
    "recordCreated":,
    "totalSizeGib":,
    "driveType": ""
}
```


5. Resource Name:

hosts/{hid}/logicalDisks/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{sid}/logicalDisks{id}

Request Content:

NA

Response Content:

Xml/json

Description:

This API returns particular logicalDisks details for particular Hosts identified by {id} with following Properties:


```
{
   "displayName": "",
   "description": "",
   "blockSize":,
   "containerId": "",
   "model": 1,
   "persistenceId": "",
   "vendor":,
   "access":,
   "deviceId": "",
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      }
   ],
   "deviceModelId": "",
   "consumableBlocks":,
   "dataOrganization":,
```

"numberOfBlocks":,

"fileSystemType": "",

"remoteShareName":,

"remoteStorage":,

"recordCreated":,

"totalSizeGib":,

"driveType": ""

}

6. Resource Name:

hosts/{hid}/logicalDisks/{id}/diskDrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/logicalDisks/{id}/diskDrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskDrives details of particular logicalDisks{id} for Hosts identified by {id} with following Properties:

{

"MaximumMediaSizeGIB":,

"displayName": "",

"serialNumber":,

"description": "",

```
"status":,
"model":,
"persistenceId": "",
"vendor":,
"links": [
    {
        "href": "",
        "rel": ""
    }
],
"hardwareVersion":,
"minimumBlockSize":,
"maximumAccessTime":,
"enabledStatus": "",
"availability":,
"maximumBlockSize":,
"defaultBlockSize":,
"architecture":,
"uncompressedDataRate":,
"recordCreated":,
"compressionMethodology":,
"maximumMediaSizeGIB":,
"sCSITargetID":,
"sCSIPort":,
"rPM":,
"sCSIBus":,
"oSLun":,
"driveType":
```

}

7. Resource Name:

hosts/{hid}/logicalDisks/{id}/diskPartitions

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/logicalDisks/{id}/diskPartitions

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskPartitions on logicalDisks {id} for Hosts identified by {hid} with following Properties:

{

"displayName": "",

"description": "",

"accessType":,

"blockSize":,

"persistenceId": "",

"purpose":,

"links": [

{

"href": "",

"rel": ""

}

```
    ],
    "consumableBlocks":,
    "dataOrganization":,
    "sequentialAccess":,
    "numberOfBlocks":,
    "recordCreated":
}
```


8. Resource Name:

hosts/logicalDiskCapacityStats

Method:

GET

Parameter:

Offset and limit (by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/hosts/logicalDiskCapacityStats

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/hosts/logicalDiskCapacityStats?offset=1&limit=20

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all logicalDiskCapacityStats of all Hosts with following Properties


```
{
    "total": "",
```

"collectionTime": "",

"used": "",

"free": "",

"hostId": "",

"totalLogicalDiskStatsCount":,

"hostVolumeId": ""

}

9. Resource Name:

hosts/hbacards

Method:

GET

Parameter:

Offset and limit (by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/hosts/hbacards

Pagination Support:

YES

Example: https://15.218.124.177/som-ws/rs/hosts/hbacards?offset=1&limit=20

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hbacards for all hosts with following Properties:

{

"displayName": "",

"serialNumber": "",

"version": "",

```
    "description": "",
    "vendor": "",
    "dnsname":,
    "driverVersion": "",
    "primaryOwnerName":,
    "links":,
    "cimInstencePath": "",
    "totalHbaCardCount": ,
    "containerId": "",
    "model": "",
    "domainId":,
    "firmwareVersion": "",
    "wwn": "",
    "cardType":,
    "persistenceId": ""
  }
```


10. Resource Name:

hosts/{id}/hbacards

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{id}/hbacards

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hbacards of a particular hosts identified by {id} with following Properties:


```
{
    "displayName": "",
    "serialNumber": "",
    "version": "",
    "description": "",
    "wwn": "",
    "containerId": "",
    "model": "",
    "domainId":,
    "firmwareVersion": "",
    "persistenceId": "",
    "vendor": "",
    "dnsname":,
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "driverVersion": "",
    "primaryOwnerName": ,
    "cimInstencePath": "",
```

"cardType":

}

11. Resource Name:

hosts/{hid}/hbacards/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/hbacards/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular hbacards{id} for hosts identified by {hid} with following Properties:

{

"displayName": "",

"serialNumber": "",

"version": "",

"description": "",

"wwn": "",

"containerId": "",

"model": "",

"domainId":,

"firmwareVersion": "",

"persistenceId": "",

```
   "vendor": "",
   "dnsname":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      }
   ],
   "driverVersion": "",
   "primaryOwnerName":,
   "cimInstencePath": "",
   "cardType":
}
```


12. Resource Name:

hosts/{hid}/hbacards/{id}/fcports

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts{hid}/hbacards/{id}/fcports

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hbaPorts on particular hbacards{id} for hosts identified by {hid} with following Properties:


```
{
    "displayName": "",
    "description": "",
    "zoneMemberName":,
    "wwn": "",
    "status":,
    "containerId": "",
    "model":,
    "portNumber":,
    "persistenceId": "",
    "vendor":,
    "deviceId":,
    "portType": "",
    "portState": "",
    "portFlavor":,
    "scsiPort":,
    "portSpeed":,
    "links": [
      {
        "href": "",
        "rel": ""
      }
    ],
    "deviceModelId": "",
```

"portLinkDistance":,

"portPhysicalState":,

"portMaxSpeed":,

"linkTechnology":,

"connectedToWWN":,

"cimInstencePath": ""

}

13. Resource Name:

hosts/fcports

Method:

GET

Parameter:

Offset and limit (by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/hosts/fcports

Pagination Support:

YES

Example: https://15.218.124.177/som-ws/rs/hosts/fcports?offset=1&limit=20

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hbaports for all hosts with following Properties:

{

"displayName": "",

"description": "",

```
    "status":,
    "vendor":,
    "deviceId":,
    "portType": "",
    "portState": "",
    "portFlavor":,
    "scsiPort": 1,
    "portSpeed":,
    "deviceModelId": "",
    "portLinkDistance":,
    "portPhysicalState":,
    "portMaxSpeed":,
    "linkTechnology":,
    "portNumber":,
    "links":,
    "connectedToWWN":,
    "cimInstencePath": "",
    "totalHbaPortCount": ,
    "containerId": "",
    "model": ,
    "wwn": "",
    "zoneMemberName":,
    "persistenceId": ""
  }
```


14. Resource Name:

hosts/{hid}/fcports

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/fcports

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hbaports for hosts identified by {hid} with following Properties:


```
{
 "displayName": "",
 "description": "",
 "zoneMemberName":,
 "wwn": "",
 "status":,
 "containerId": "",
 "model": ,
 "portNumber": ,
 "persistenceId": "",
 "vendor":,
 "deviceId":,
 "portType": "",
 "portState": "",
 "portFlavor":,
 "scsiPort":,
 "portSpeed":,
```

```
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "deviceModelId": "",
    "portLinkDistance":,
    "portPhysicalState":,
    "portMaxSpeed":,
    "linkTechnology":,
    "connectedToWWN":,
    "cimInstencePath": ""
}
```


15. Resource Name:

hosts/{hid}/diskDrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}diskDrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskDrives for hosts identified by {hid} with following Properties:


```
{
    "MaximumMediaSizeGIB":,
    "displayName": "",
    "serialNumber":,
    "description": "",
    "status": null,
    "model": null,
    "persistenceId": "",
    "vendor":,
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "hardwareVersion":,
    "minimumBlockSize":,
    "maximumAccessTime":,
    "enabledStatus": "",
    "availability":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "architecture":,
```

"uncompressedDataRate":,

"recordCreated":,

"compressionMethodology":,

"maximumMediaSizeGIB":,

"sCSITargetID": ,

"sCSIPort": ,

"rPM":,

"sCSIBus": ,

"oSLun":,

"driveType":

}

16. Resource Name:

hosts/{hid}/diskDrives/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}diskDrives/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular diskDrives {id} for hosts identified by {hid} with following Properties:

{

"MaximumMediaSizeGIB":,

```
"displayName": "",
"serialNumber":,
"description": "",
"status":,
"model":,
"persistenceId": "",
"vendor":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"hardwareVersion":,
"minimumBlockSize":,
"maximumAccessTime":,
"enabledStatus": "",
"availability":,
"maximumBlockSize":,
"defaultBlockSize":,
```

"architecture":,

"uncompressedDataRate":,

"recordCreated":,

"compressionMethodology":,

"maximumMediaSizeGIB":,

"sCSITargetID": ,

"sCSIPort": ,

"rPM":,

"sCSIBus": ,

"oSLun":,

"driveType":

}

17. Resource Name:

hosts/{hid}/diskDrives/{id}/diskPartitions

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/diskDrives/{id}/diskPartitions

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskPartitions on particular diskDrives {id} for hosts identified by {hid} with following Properties:

{

```
    "displayName": "",
    "description": "",
    "accessType": ,
    "blockSize":,
    "persistenceId": "",
    "purpose":,
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "consumableBlocks":,
    "dataOrganization":,
    "sequentialAccess":,
    "numberOfBlocks":,
    "recordCreated":
}
```


18. Resource Name:

hosts/{hid}/diskDrives/{id}/logicalDisks

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/diskDrives/{id}/logicalDisks

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all logicalDisks on particular diskDrives {id} for hosts identified by {hid} with following Properties:


```
{
   "displayName": "",
   "description": "",
   "blockSize": 1,
   "containerId": "",
   "model": 1,
   "persistenceId": "",
   "vendor":,
   "access": "",
   "deviceId": "",
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ],
   "deviceModelId": "",
   "consumableBlocks":,
   "dataOrganization":,
   "numberOfBlocks":,
   "fileSystemType": "",
   "remoteShareName":,
   "remoteStorage":,
```

"recordCreated":,

"totalSizeGib":,

"driveType": ""

}

19. Resource Name:

hosts/{hid}/multipathDevices

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/multipathDevices

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all multipathDisks for hosts identified{hid} with following Properties:

{

"displayName": "",

"description": "",

"accessType": ,

"blockSize": ,

"model": ,

"persistenceId": "",

"vendor": ,

```
    "purpose": ,
    "links": [
       {
          "href": "",
          "rel": ""
       },
       {
          "href": "",
          "rel": ""
       }
    ],
    "cimInstancePath": "",
    "consumableBlocks":,
    "dataOrganization":,
    "sequentialAccess":,
    "numberOfBlocks":,
    "recordCreated":
 }
```


20. Resource Name:

hosts/{hid}/multipathDevices/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/multipathDevices/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular multipathDisks{id} for hosts identified{hid} with following Properties:


```
{
   "displayName": "",
   "description": "",
   "accessType":,
   "blockSize":,
   "model": ,
   "persistenceId": "",
   "vendor":,
   "purpose":,
   "links": [
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      },
      {
         "href": "",
         "rel": ""
      }
   ],
```

"cimInstancePath": "",

"consumableBlocks":,

"dataOrganization":,

"sequentialAccess":,

"numberOfBlocks":,

"recordCreated":

}

21. Resource Name:

hosts/{hid}/multipathDevices/{id}/diskDrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/multipathDevices/{id}/diskDrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskDrives on particular multipathDisks{id} for hosts identified by {hid} with following Properties:

{

"MaximumMediaSizeGIB":,

"displayName": "",

"serialNumber":,

"description": "",

"status":,

```
    "model":,
    "persistenceId": "",
    "vendor":,
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "hardwareVersion":,
    "minimumBlockSize":,
    "maximumAccessTime":,
    "enabledStatus": "",
    "availability":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "architecture":,
    "uncompressedDataRate":,
    "recordCreated":,
    "compressionMethodology":,
    "maximumMediaSizeGIB":,
    "sCSITargetID": ,
    "sCSIPort": ,
    "rPM":,
    "sCSIBus": ,
    "oSLun":,
    "driveType":
}
```

22. Resource Name:

hosts/{hid}/multipathDevices/{id}/volumeManagerVolumes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/somws/rs/hosts/{hid}/multipathDevices/{id}/volumeManagerVolumes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all VMVolumes on particular multipathDisks {id} for hosts identified by {hid} with following Properties:


```
{
  "displayName": "",
  "description": "",
  "accessType":,
  "blockSize":,
  "model": ,
  "persistenceId": "",
  "vendor": "",
  "links": [
    {
      "href": "",
      "rel": ""
```

```
        }
    ],
    "cimInstancePath": "",
    "consumableBlocks":,
    "numberOfBlocks":,
    "recordCreated":,
    "versionOfSoftware": ""
}
```


23. Resource Name:

hosts/{hid}/volumeManagerVolumes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all VMVolumes for hosts identified {hid} with following Properties:


```
{
    "displayName": "",
    "description": "",
    "accessType":,
```

```
    "blockSize": ,
    "model": ,
    "persistenceId": "",
    "vendor": "",
    "links": [
       {
          "href": "",
          "rel": ""
       },
       {
          "href": "",
          "rel": ""
       }
    ],
    "cimInstancePath": "",
    "consumableBlocks":,
    "numberOfBlocks":,
    "recordCreated":,
    "versionOfSoftware": ""
 }
```


24. Resource Name:

hosts/{hid}/volumeManagerVolumes/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular VMVolumes{id} for hosts identified {hid} with following Properties:


```
{
"displayName": "",
"description": "",
"accessType":,
"blockSize":,
"model": ,
"persistenceId": "",
"vendor": "",
"links": [
  {
    "href": "",
    "rel": ""
  },
  {
    "href": "",
    "rel": ""
  },
  {
    "href": "",
    "rel": ""
  },
```

```
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "cimInstancePath": "",
    "consumableBlocks":,
    "numberOfBlocks":,
    "recordCreated":,
    "versionOfSoftware": ""
}
{
        "displayName": "",
        "description": "",
        "accessType":,
        "blockSize": ,
        "model": ,
        "persistenceId": "",
        "vendor": "",
        "links": [
            {
                "href": "",
                "rel": ""
            },
```

```
        {
            "href": "",
            "rel": ""
        }
    ],
    "cimInstancePath": "",
    "consumableBlocks":,
    "numberOfBlocks":,
    "recordCreated":,
    "versionOfSoftware": ""
}
```


25. Resource Name:

hosts/{hid}/volumeManagerVolumes/{id}/diskDrives

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes/{id}/diskDrives

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskDrives on particular VMVolumes {id} for hosts identified {hid} with following Properties:


```
{
    "MaximumMediaSizeGIB":,
```

```
"displayName": "",
"serialNumber":,
"description": "",
"status": "",
"model":,
"persistenceId": "",
"vendor":,
"links": [
    {
        "href": "",
        "rel": ""
    }
],
"hardwareVersion":,
"minimumBlockSize":,
"maximumAccessTime":,
"enabledStatus": "",
"availability":,
"maximumBlockSize":,
"defaultBlockSize":,
"architecture":,
"uncompressedDataRate":,
"recordCreated":,
"compressionMethodology":,
"maximumMediaSizeGIB":,
"sCSITargetID": ,
"sCSIPort": ,
"rPM":,
```

"sCSIBus": ,

"oSLun":,

"driveType":

}

26. Resource Name:

hosts/{hid}/volumeManagerVolumes/{id}/diskPartitions

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes/{id}/diskPartitions

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskPartions on particular VMVolumes {id} for hosts identified {hid} with following Properties:

{

"displayName": "",

"description": "",

"accessType":,

"blockSize":,

"persistenceId": "",

"purpose":,

"links": [

{

"href": "",

"rel": ""

}

],

"consumableBlocks":,

"dataOrganization":,

"sequentialAccess":,

"numberOfBlocks":,

"recordCreated":

}

26. Resource Name:

hosts/{hid}/volumeManagerVolumes/{id}/logicalDisks

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes/{id}/logicalDisks

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all diskPartions on particular VMVolumes {id} for hosts identified {hid} with following Properties:

{

"displayName": "",

"description": "",

```
    "blockSize": ,
    "containerId": "",
    "model": ,
    "persistenceId": "",
    "vendor":,
    "access": "",
    "deviceId": "",
    "links": [
       {
          "href": "",
          "rel": ""
       }
    ],
    "deviceModelId": "",
    "consumableBlocks":,
    "dataOrganization":,
    "numberOfBlocks":,
    "fileSystemType": "",
    "remoteShareName": " ",
    "remoteStorage":,
    "recordCreated":,
    "totalSizeGib":,
    "driveType": ""
 }
```


27. Resource Name:

hosts/{hid}/volumeManagerVolumes/{id}/multipathDevices

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/volumeManagerVolumes/{id}/multipathDevices

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all multipathDisks on particular VMVolumes {id} for hosts identified {hid} with following Properties:


```
{
  "displayName": "",
  "description": "",
  "accessType":,
  "blockSize":,
  "model": ,
  "persistenceId": "",
  "vendor":,
  "purpose":,
  "links": [
    {
      "href": "",
      "rel": ""
    }
  ],
  "cimInstancePath": "",
  "consumableBlocks":,
```

"dataOrganization":,

"sequentialAccess":,

"numberOfBlocks":,

"recordCreated":

}

28. Resource Name:

hosts/{hid}/clusters

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hosts/{hid}/clusters

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all clusters for hosts identified {hid} with following Properties:

{

"displayName": "",

"serialNumber": ,

"providerName": "",

"description": "",

"model":,

"cluster":,

"collectionStatus":,
"dataCenterName":,
"dataCenterMORID":,
"totalPhysicalMemory":,
"processorCount":,
"operatingSystem":,
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName":,
"links": [
  {
    "href": "",
    "rel": ""
  }
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion":,
"virtualServer":,
"identifyingDescription":,
"virtualMachineState":,
"dataCenterMORId":,
"totalHostCount":,
"iPAddress":,
"oSVersion":

}

29. Resource Name:

hosts/dependencies

Method:

GET

Parameter:

Offset and limit (by default offset=0 and limit=100)

Request Url:

http://localhost:port/som-ws/rs/hosts/dependencies

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example:

https://15.218.124.177/som-ws/rs/hosts/dependencies?offset=1&limit=20

Description:

This API returns all Host Dependencies for all hosts with following Properties:

{

"storageVolumeName": "",

"hostVolumeId": "",

"hostVolumeName": "",

"hostVolumeUUID": "",

"storageVolumeId": "",

"storageVolumeUUID": "",

"totalHostCount":

}

30. Resource Name:

hostClusters

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hostClusters

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all hostClusters for with following Properties:

{

"displayName": "",

"serialNumber": ,

"providerName": "",

"description": "",

"model":,

"cluster":,

"collectionStatus":,

"dataCenterName":,

"dataCenterMORID":,

"totalPhysicalMemory":,

"processorCount": ,

```
    "operatingSystem": "",
    "processorType":,
    "clusterVersion":,
    "cimInstancePath": "",
    "vendor": "",
    "persistenceId": "",
    "dnsName":,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":,
    "identifyingInfo":,
    "cIMExtensionVersion":,
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState":,
    "dataCenterMORId":,
    "totalHostCount":,
    "iPAddress":,
    "oSVersion":
}
```

31. Resource Name:

hostClusters/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hostClusters/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular hostClusters identified{id} with following Properties:

{

"displayName": "",

"serialNumber": ,

"providerName": "",

"description": "",

"model":,

"cluster":,

"collectionStatus":,

"dataCenterName":,

"dataCenterMORID":,

"totalPhysicalMemory":,

"processorCount":,

"operatingSystem": "",

```
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion":,
"virtualServer": false,
"identifyingDescription":,
"virtualMachineState":,
"dataCenterMORId":,
"totalHostCount":,
```

"iPAddress":,

"oSVersion":

}

32. Resource Name:

hostClusters/{id}/nodes

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hostClusters/{id}/nodes

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all nodes for hostClusters identified{id} with following Properties:


```
{
   "displayName": "",
   "serialNumber": "",
   "providerName": "",
   "description": "",
   "model": "",
   "cluster":,
   "collectionStatus": "",
   "dataCenterName":,
   "dataCenterMORID":,
```

```
    "totalPhysicalMemory":,
    "processorCount": ,
    "operatingSystem": " ",
    "processorType":,
    "clusterVersion":,
    "cimInstancePath": "",
    "vendor": "",
    "persistenceId": "",
    "dnsName": "",
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":,
    "identifyingInfo":,
    "cIMExtensionVersion": "",
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState":,
    "dataCenterMORId":,
    "totalHostCount": ,
    "iPAddress": "",
    "oSVersion": ""
}
```


33. Resource Name:

hostClusters/{id}/sharedStorages

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/hostClusters/{id}/sharedStorages

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all sharedStorages for hostClusters identified{id} with following Properties:


```
{
   "links": [
      {
         "href": "",
         "rel": ""
      }
   ],
   "sharedDiskList":,
   "sharedVolList": [
      {
         "displayName": "",
         "description": "",
         "model": ,
         "blockSize":,
         "containerId": "",
```

```
        "deviceModelId": "",
        "consumableBlocks":,
        "remoteShareName":,
        "dataOrganization":,
        "fileSystemType": "",
        "numberOfBlocks":,
        "vendor":,
        "access":,
        "deviceId": "",
        "persistenceId": "",
        "links":,
        "remoteStorage":,
        "recordCreated":,
        "totalSizeGib":,
        "totalHostVolumeCount":,
        "driveType": ""
    }
],
"sharedVmVolList": [
    {
        "displayName": "",
        "description": "",
        "accessType":,
        "model": ,
        "blockSize":,
        "cimInstancePath": "",
        "consumableBlocks":,
        "numberOfBlocks":,
```

```
        "vendor": "",
        "persistenceId": "",
        "links":,
        "recordCreated":,
        "versionOfSoftware": ""
      }
  ]
}
```


34. Resource Name:

virtualServers

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/virtualServers

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all virtualServers with following Properties:


```
{
    "displayName": "",
    "serialNumber":,
    "providerName": "",
    "description": "",
```

```
"model": "",
"cluster":,
"collectionStatus": "",
"dataCenterName": "",
"dataCenterMORID": "",
"totalPhysicalMemory":,
"processorCount": ,
"operatingSystem": "",
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName": "",
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion": "",
"virtualServer":,
```

```
    "identifyingDescription":,
    "virtualMachineState":,
    "dataCenterMORId": "",
    "totalHostCount":,
    "iPAddress": "",
    "oSVersion": ""
}
```


34. Resource Name:

virtualServers/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/virtualServers/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular virtualServers identified{id} with following Properties:


```
{
    "displayName": "",
    "serialNumber":,
    "providerName": "",
    "description": "",
    "model": "",
```

```
"cluster":,
"collectionStatus": "",
"dataCenterName": "",
"dataCenterMORID": "",
"totalPhysicalMemory":,
"processorCount": ,
"operatingSystem": "",
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName": "",
"links": [
   {
      "href": "",
      "rel": ""
   },
   {
      "href": "",
      "rel": ""
   }
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion": "",
"virtualServer":,
"identifyingDescription":,
```

"virtualMachineState":,

"dataCenterMORId": "",

"totalHostCount": ,

"iPAddress": "",

"oSVersion": ""

}

34. Resource Name:

virtualServers/{id}/virtuaMachines

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/virtualServers/{id}/virtuaMachines

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all virtualMachines for virtualServers identified{id} with following Properties:

{

"displayName": "",

"serialNumber":,

"providerName": "",

"description":,

"model": "",

"cluster": false,

"collectionStatus":,
"dataCenterName":,
"dataCenterMORID":,
"totalPhysicalMemory":,
"processorCount": ,
"operatingSystem": "",
"processorType":,
"clusterVersion":,
"cimInstancePath": "",
"vendor": "",
"persistenceId": "",
"dnsName":,
"links": [
{
"href": "",
"rel": ""
}
],
"recordCreated":,
"identifyingInfo":,
"cIMExtensionVersion":,
"virtualServer":,
"identifyingDescription":,
"virtualMachineState": "",
"dataCenterMORId":,
"totalHostCount":,
"iPAddress":,
"oSVersion": ""

}

35. Resource Name:

virtualMachines

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/virtualMachines

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all virtualMachines with following Properties:

{

"displayName": "",

"serialNumber":,

"providerName": "",

"description":,

"model": "",

"cluster":,

"collectionStatus":,

"dataCenterName":,

"dataCenterMORID":,

"totalPhysicalMemory":,

"processorCount":,

```
    "operatingSystem": "",
    "processorType":,
    "clusterVersion":,
    "cimInstancePath": "",
    "vendor": "",
    "persistenceId": "",
    "dnsName":,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":,
    "identifyingInfo":,
    "cIMExtensionVersion":,
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState": "",
    "dataCenterMORId":,
    "totalHostCount":,
    "iPAddress":,
    "oSVersion": ""
}
```

36. Resource Name:

virtualMachines/{id}

Method:

GET

Parameter:

NA

Request Url:

http://localhost:port/som-ws/rs/virtualMachines/{id}

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular virtualMachines identified by{id} with following Properties:

{

"displayName": "",

"serialNumber":,

"providerName": "",

"description":,

"model": "",

"cluster":,

"collectionStatus":,

"dataCenterName":,

"dataCenterMORID":,

"totalPhysicalMemory":,

"processorCount": ,

"operatingSystem": "",

```
    "processorType":,
    "clusterVersion":,
    "cimInstancePath": "",
    "vendor": "",
    "persistenceId": "",
    "dnsName":,
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "recordCreated":,
    "identifyingInfo":,
    "cIMExtensionVersion":,
    "virtualServer":,
    "identifyingDescription":,
    "virtualMachineState": "",
    "dataCenterMORId":,
    "totalHostCount":,
    "iPAddress":,
    "oSVersion": ""
}


        }
    ],
    "recordCreated": ,
    "identifyingInfo": ,
```

```
    "cIMExtensionVersion": ,
    "virtualServer": ,
    "identifyingDescription": ,
    "virtualMachineState": "",
    "dataCenterMORId": ,
    "totalHostCount": ,
    "iPAddress": ,
    "oSVersion": ""
}
```


NAS STORAGE SYSTEMS:-

1. Resource Name:

nasSystems

Request Url:

https://localhost:port/som-ws/rs/nasSystems

Support Method:

GET

Parameter:

offset and limit((by default offset=0 and limit=100))

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/nasSystems?offset=0&limit=20

Description:

This API returns NasSystems details with following Properties


```
{
    "displayName": "",
    "providerName": "",
    "description": "",
    "status":,
    "serialNumber": "",
    "links": [
      {
        "href": "",
        "rel": ""
      },
      {
        "href": "",
        "rel": ""
      }
    ],
    "model": "",
    "persistenceId": "",
    "cimInstancePath": "",
    "dkcMicrocodeVersion":,
    "hardwareVersion": "",
    "uuid": "",
    "vendor": "",
    "providerTag": "",
    "ipaddress":,
    "iPAddress":,
```

"totalStorageSystemCount": ""

}

2. Resource Name:

nasSystems/{id}

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns NasSystems details identified by {id} with following Properties:

{

"displayName": "",

"description": "",

"providerName": "",

"serialNumber": "",

"status": ,

"dkcMicrocodeVersion": ,

"hardwareVersion": "",

"model": "",

"persistenceId": "",

"uuid": "",

```
"cimInstancePath": "",
"vendor": "",
"providerTag": " ",
"ipaddress":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
```

```
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "totalStorageSystemCount":,
    "iPAddress":
}
```


3. Resource Name:

nasSystems/volumes

Request Url:

https://localhost:port/som-ws/rs/nasSystems/volumes

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/nasSystems/volumes?offset=0&limit=20

Description:

This API returns all Nas Volumes for all NasSystems with following Properties:

4. Resource Name:

nasSystems/{id}/volumes

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/volumes

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all Nas Volumes for NasSystems identified by {id} with following Properties:

{

```
"availableSize": ,
"totalSize": ,
"usedSize": ,
"statusInfo": "",
"usedSizeinMB": ,
"totalSizeinMB":,
"snapshotId":,
"containerId": "",
"persistenceId": "",
"uuid": "",
"parentNasVolumeName":,
"belongsToFilesystem":,
"fileSystemType": "",
"availableSizeinMB": ,
"snapshotReserveSize": ,
"deviceId":,
"links": [
    {
        "href": "",
        "rel": ""
    },
    {
        "href": "",
        "rel": ""
    }
],
"totalNasVolumeCount":,
"nasSystemNodeId": ""
```

}

5. Resource Name:

nasSystems/{id}/volumes/{id}

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/volumes/{id}

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns particular Nas Volumes{id} for NasSystems identified by {id} with following Properties:

{

"availableSize": ,

"totalSize": ,

"usedSize": ,

"statusInfo": "",

"usedSizeinMB": ,

"totalSizeinMB":,

"snapshotId":,

"containerId": "",

"persistenceId": "",

"uuid": "",

"parentNasVolumeName":,

```
    "belongsToFilesystem":,
    "fileSystemType": "",
    "availableSizeinMB": ,
    "snapshotReserveSize": ,
    "deviceId":,
    "links": [
        {
            "href": "",
            "rel": ""
        },
        {
            "href": "",
            "rel": ""
        }
    ],
    "totalNasVolumeCount":,
    "nasSystemNodeId": ""
}
```


6. Resource Name:

nasSystems/{id}/volumes/{id}/diskDrives

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/volumes/{id}/diskDrives

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all DiskDrives for Nas Volumes{id} for NasSystems identified by {id} with following Properties:


```
{
    "description": "",
    "serialNumber": "",
    "enabledStatus": "",
    "scsiport":,
    "scsibus":,
    "architecture": "",
    "status": "",
    "model": "",
    "minimumBlockSize":,
    "maximumAccessTime":,
    "maximumMediaSize":,
    "maximumBlockSize":,
    "defaultBlockSize":,
    "uncompressedDataRate":,
    "persistenceId": "",
    "vendor": "",
    "diskType":,
    "links": [
      {
        "href": "",
        "rel": ""
      }
```

],

"compressionMethodology":,

"recordCreated":,

"displayname": "",

"rpm":,

"scsitargetID":

}

7. Resource Name:

nasSystems/{id}/volumes/{id}/shares

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/volumes/{id}/shares

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all Shares for Nas Volumes{id} for NasSystems identified by {id} with following Properties:

{

"displayName": "",

"mountPoint": "",

"containerId":,

"status":,

"persistenceId": "",

```
    "cimInstancePath": "",
    "deviceModelId": "",
    "links": [
       {
          "href": "",
          "rel": ""
       }
    ],
    "replicationStatus":,
    "nasType": "",
    "recordCreated":
 }
```


8. Resource Name:

nasSystems/{id}/volumes/{id}/snapshots

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/volumes/{id}/snapshots

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all snapshots for Nas Volumes{id} for NasSystems identified by {id} with following Properties:

9. Resource Name:

nasSystems/systemNodes

Request Url:

https://localhost:port/som-ws/rs/nasSystems/systemNodes

Support Method:

GET

Parameter:

NA

Request Content:

NA

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/nasSystems/systemNodes?offset=0&limit=20

Response Content:

xml/json

Description:

This API returns all SystemNodes for all NasSystems with following Properties:

{

"serialNumber": "",

"usedHDDSize":,

"totalHDDSize":,

"rootPath": null,

"usedSSDSize":,

"totalSSDSize":,

"nodeType":,

"containerId": "",

"status": "",

"otherIdentifyingInfo": "",

"identifyingDescriptions":,

"model":,

"persistenceId": "",

"totalMainMemory":,

"ipaddress": "",

"dnsname": "",

"wwn":,

"links":,

"totalNasSystemNodeCount":

}

10. Resource Name:

nasSystems/{id}/systemNodes

Request Url:

https://localhost:port/som-ws/rs/nasSystems/{id}/systemNodes

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all SystemNodes for NasSystems identified by{id}with following Properties:

{

"serialNumber": "",

"usedHDDSize":,

```
    "totalHDDSize":,
    "rootPath":,
    "usedSSDSize":,
    "totalSSDSize":,
    "nodeType":,
    "containerId": "",
    "status": "",
    "otherIdentifyingInfo": "",
    "identifyingDescriptions":,
    "model":,
    "persistenceId": "",
    "totalMainMemory":,
    "ipaddress": "",
    "dnsname": "",
    "wwn":,
    "links": [
      {
          "href": "",
          "rel": ""
       }
    ],
    "totalNasSystemNodeCount":
}
```


11. Resource Name:

nasSystems/networkInterfaces

Request Url:

http://localhost:port/som-ws/rs/nasSystems/networkInterfaces

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: https://localhost:port/som-ws/rs/nasSystems/networkInterfaces?offset=0&limit=20

Description:

This API returns all networkInterfaces for all NasSystems with following Properties:

{

"version":,

"cardType":,

"macAddress": "",

"nicName":,

"currentPort":,

"ipAddress": "",

"containerId": "",

"persistenceId": "",

"dataProtocolAccess":,

"deviceModelId": "",

"role":,

"links":,

"nasSystemNodeId":,

"parentSystemId": "",

"totalNasnetworkIntrCount":

}

12. Resource Name:

nasSystems/{id}/networkInterfaces

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/networkInterfaces

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all networkInterfaces for NasSystems identified by{id} with following Properties:

{

"version": null,

"cardType": null,

"macAddress": "00:50:56:b9:00:58",

"nicName": null,

"currentPort": null,

"ipAddress": "fc00::1202",

"containerId": "4294969009",

"persistenceId": "4294971715",

"dataProtocolAccess": null,

```
    "deviceModelId": "",
    "role":,
    "links": [
       {
          "href": "",
          "rel": ""
       },
       {
          "href": "",
          "rel": ""
       }
    ],
    "nasSystemNodeId":,
    "parentSystemId": "",
    "totalNasnetworkIntrCount":
}
```


13. Resource Name:

nasSystems/snapshots

Request Url:

http://localhost:port/som-ws/rs/nasSystems/snapshots

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/nasSystems/snapshots?offset=0&limit=20

Description:

This API returns all snapshots for all NasSystems with following Properties:


```
{
    "displayName": "",
    "description": "",
    "dependency": "",
    "totalSize": ,
    "totalSizeinMB": ,
    "containerId": "",
    "persistenceId": "",
    "parentNasVolumeName": "",
    "percentOfTotalBlocks": ,
    "percentOfUsedBlocks": ,
    "cumPercentOfTotalBlocks": ,
    "cumPercentOfUsedBlocks": ,
    "cumTotal":,
    "cimInstancePath": "",
    "modelType": ,
    "links":,
    "totalNasSnapshotCount":
  }
```


14. Resource Name:

nasSystems/{id}/snapshots

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/snapshots

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all snapshots for NasSystems identified by{id} with following Properties:

{

"displayName": "",

"description": "",

"dependency": "",

"totalSize": ,

"totalSizeinMB": ,

"containerId": "",

"persistenceId": "",

"parentNasVolumeName": "",

"percentOfTotalBlocks": ’

"percentOfUsedBlocks":,

"cumPercentOfTotalBlocks":,

"cumPercentOfUsedBlocks":,

"cumTotal":,

"cimInstancePath": "",

"modelType":,

```
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "totalNasSnapshotCount":
}
```


15. Resource Name:

nasSystems/{id}/qtrees

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/qtrees

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all qtrees for NasSystems identified by{id} with following Properties:


```
{
    "displayName": "",
    "nasVolumeName":,
    "containerId": "",
    "status": "",
```

"fileSystemName": "",

"persistenceId": "",

"storageSystem": "",

"cimInstancePath": "",

"deviceModelId": "",

"recordCreated":

}

16. Resource Name:

nasSystems/{id}/quotas

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/quotas

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all quotas for NasSystems identified by{id} with following Properties:

{

"displayName": "",

"containerId": "",

"threshold":,

"persistenceId": "",

"parentNasVolumeName": "",

```
"spaceHardLimit": ,
"spaceSoftLimit": ,
"spaceHardLimitInMB": ,
"spaceSoftLimitInMB": ,
"parentQtreeName":,
"spaceUsageInMB": ,
"fileUsage": ,
"fileHardLimit":,
"spaceUsage": ,
"fileSoftLimit":,
"thresholdInMB":,
"quotaType": "",
"quotaTarget": "",
"cimInstancePath": "",
"deviceModelId": "",
"recordCreated":
}
```


17. Resource Name:

nasSystems/{id}/shares

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/shares

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all shares for NasSystems identified by{id} with following Properties:

{

"displayName": "",

"mountPoint": "",

"containerId": "",

"status": null,

"persistenceId": "",

"cimInstancePath": "",

"deviceModelId": "",

"links":,

"replicationStatus":,

"nasType": "",

"recordCreated":

}

19. Resource Name:

nasSystems/{id}/replicationPairs

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/replicationPairs

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all replicationPairs for NasSystems identified by{id} with following Properties:

{

"containerId":,

"targetName": "",

"persistenceId": "",

"syncStateCollectionTime":,

"remoteElementIdentifier":,

"syncStateCollectionTimeString":,

"remoteSystemIdentifier": " ",

"syncMaintained":,

"replicaType": "",

"copyType": "",

"whenSynced":,

"syncState": "",

"sourceName": "",

"locality": "",

"deviceModelId": ""

}

20. Resource Name:

nasSystems/{id}/nasExtents

Request Url:

http://localhost:port/som-ws/rs/nasSystems/{id}/nasExtents

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Description:

This API returns all nasExtents for NasSystems identified by{id} with following Properties:

{

"displayName": "",

"description":,

"blockSize":,

"containerId": "",

"accessType":,

"status": "",

"extentType": ,

"extentUsedSpace": ,

"extentAvailableSpace": ,

"extentTotalSpace": ,

"extentAvailableSpaceInMB": ,

"extentTotalSpaceInMB":,

"extentUsedSpaceInMB": ,

"persistenceId": "",

"consumableBlocks":,

"dataOrganization":,

"controllerName":,

"sequentialAccess":,

"numberOfBlocks":,

```
    "links": [
        {
            "href": "",
            "rel": ""
        }
    ],
    "totalNasExtentCount":,
    "recordCreated":,
    "sLPR":,
    "cLPR":
}
```


20. Resource Name:

nasSystems/nasExtents

Request Url:

http://localhost:port/som-ws/rs/nasSystems/nasExtents

Support Method:

GET

Parameter:

NA

Request Content:

NA

Response Content:

xml/json

Pagination Support:

YES

Example: http://localhost:port/som-ws/rs/nasSystems/nasExtents?offset=0&limit=20

Description:

This API returns all nasExtents for all NasSystems with following Properties:


```
{
    "displayName": "",
    "description":,
    "blockSize":,
    "containerId": "",
    "accessType":,
    "status": "",
    "extentType": ,
    "extentUsedSpace": ,
    "extentAvailableSpace": ,
    "extentTotalSpace": ,
    "extentAvailableSpaceInMB":,
    "extentTotalSpaceInMB":,
    "extentUsedSpaceInMB": ,
    "persistenceId": "",
    "consumableBlocks":,
    "dataOrganization":,
    "controllerName":,
    "sequentialAccess":,
    "numberOfBlocks":,
    "links":,
    "totalNasExtentCount": ,
    "recordCreated":,
    "sLPR":,
    "cLPR":
  }
```