



Redfish User Guide 5.1

USER'S MANUAL

Revision 5.1

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Revision History

Revision	Date	Description
5.1	8/14/2025	Added Redfish 2024.4 (version 1.21.1) Corrected some CLI items Added Saving HA-RAID Controller Configuration command Added Intel VROC commands Added Sync Time command Modified CPU Power Capping commands Modified Boot Certificate GET command Added items to Available API list Updated APIs URL Changes section Updated Deprecated APIs section Followed Redfish 2024.4 to change Redfish URI of schema LeakDetector Changed Redfish API for the purpose of DMTF compliance. Added PowerOption while it has LeakDetected. Added enable/disable LeakDetection lock. Added enable/disable Leakage detection sensor.

Revision	Date	Description
5.0	4/22/2025	Added Redfish 2024.3 (1.21.0 version) Added CPLD APIs URL Changes Added StartTLS section Added Boot Certificates section Added ClearCMOS section (Support since X14/H14) Added iHDT section (Support since H14) Added S5 standby fan mode section (Support since X14/H14) Added Remotely Standby Power Cycle section (Support since X14/H14) Added NodeManager section (Support since X14) Modified Creating Logical Volume Modified SecureBootMode Modified Updating BIOS Firmware Modified Clearing Logs Added NTP disable/enable section Added NTP Auto Daylight saving section Added LeakDetection section (Support in liquid cooling systems) Added License Service section Added Privilege Changes section Added UBB CPLD section Added CPU Power Capping section (Support since X14/H14) Added ComponentIntegrity section Added Assembly section Added note in Event Service Modified Deprecated APIs Section

Revision	Date	Description
4.0	7/25/2024	Added Redfish 2021.2 (1.14.0 version) Modified Configuring BIOS over Redfish Modified FixedBootOrder Added Create ScreenCapture, Download ScreenCapture, Download VideoCapture, Download CrashScreenCapture, and Download SDOReport Modified KCS Channel Control Modified LLDP Section Added Boot Certificate Section Added Power and Thermal Resource Tree Section Modified available APIs Added APIs URL Changes Section Added Deprecated APIs Section
3.5	1/11/2024	Modified Event API's example payload Added note that Simple Update API only supports BMC & BIOS Added POST example of certificate for Securebootdatabase Added AuthFailureLoggingThreshold back to example payload
3.4	10/27/2023	Fix URI to /redfish/v1/Registries/Base Added 10.1.1 Check Task State First HTML version Added DNS setting Modified Available APIs Modified RAID Configuration Added support platform with Fixed Boot Order Added support for Redfish version 1.11
3.3	09/04/2023	Added the FixedBootOrder section Modified the VirtualMedia section Updated the API URI list Updated the NIC Firmware section Added support for activating via the Redfish API

Revision	Date	Description
3.2	04/06/2023	Fix URI to /redfish/v1/Registries/Base Added 10.1.1 Check Task State Deleted Section 6: AuthFailureLoggingThreshold: Modified Section 8.3: Replacing a Certificate Modified Section 9.4: SendTestEvent-> SubmitTestEvent Modified Section 17,18: Method, Response of Jschema Deleted SMTP section (deprecated in RF 1.9) Modified SNMP 19.2.1 Section Modified Section: Available APIs • /redfish/v1/Registries/BiosAttributeRegistry.v1_0_0 • /redfish/v1/UpdateService/FirmwareInventory/Backup_BIOS • /redfish/v1/UpdateService/FirmwareInventory/Backup_BMC

Applicable or Supported Platforms

The Redfish Reference Guide applies since X12 and H12 platforms.

Introduction

The Redfish Scalable Platforms Management API ("Redfish") uses RESTful interface semantics to access data defined in a model format to perform systems management. It is suitable for a wide range of servers, from stand-alone to rack mount, blade, and even cloud environments.

As a management standard, Redfish uses data model representation inside of a hypermedia RESTful interface. Being based on REST makes it easier to use and implement than many other solutions. Since it is model-oriented, it is capable of expressing the relationships between components in modern systems as well as the semantics of the services and components within them. It is also easily extensible. By using a hypermedia approach to REST, Redfish can express a large variety of systems from multiple vendors. Utilizing JSON (JavaScript Object Notation) data format, which is in plain text, allows many types of parameters to be available such that it enables scalability, human readability, and flexibility for most programming environments by easily interpreting payload.

The model is displayed in terms of an interoperable OData Schema with the payload of the messages being expressed in JSON following OData JSON conventions. The schema (available in both XML and JSON formats) includes annotations to facilitate the automatic translation of the schema to JSON Schema. The ability to externally host the schema definition of the resources in a machine-readable format allows the metadata to be associated with the data without encumbering Redfish services with the metadata, thus enabling more advanced client scenarios as found in many data centers and cloud environments.

Supermicro enables Redfish feature sets on Intel-based X10 and AMD-based H11 and later-generation platforms. These features are covered under SFT-OOB-LIC and SFT-DCMS-SINGLE licenses.

This document provides you with an overview of Restful API services and describes how to receive Redfish API responses directly from a Supermicro BMC (Baseboard Management Controller).

HTTP Request Methods

Method	Action	Description
GET	Read Requests	The method requests a representation of a specified resource. The representation can be either a single resource or a collection.
PATCH	Update	The method applies partial modifications to a resource.
PUT	Replace	The method completely replaces a resource. Any properties omitted from the body of the request are reset to their default value.
POST	Create	The method creates a new resource. This request is submitted to the resource collection in which the new resource is meant to belong.
POST	Actions	The method initiates operations on the object (Actions). The POST operation may not be idempotent.
DELETE	Delete	The method removes a resource.

Responses

There are four types of responses:

Response	Description
Metadata	Resources and types are exposed by the service to generic clients.
Resource Responses	An individual resource is displayed in JSON format.
Resource Collection	JSON representation of a collection of resources.
Error	Top-level JSON response providing additional information in the case of an HTTP error.

HTTP Status Code Description

Status Code	Description
200	OK
201	Created
202	Accepted
204	No Content
301	Moved Permanently
302	Found
304	Not Modified

Status Code	Description
400	Bad Request
401	Unauthorized
403	Forbidden
404	Not Found
405	Method Not Allowed
406	Not Acceptable
409	Conflict
410	Gone
411	Length Required
412	Precondition Failed
415	Unsupported Media Type
500	Internal Server Error
501	Not Implemented
503	Service Unavailable

Using Restful APIs

To receive API responses through programming, install Postman or any other Rest API client application(s).

Authentication

You are required to have authentication to access certain resources. Redfish offers two methods for users to access Redfish URLs: “basic authentication” and “Redfish session login authentication.” The Service does not require you to create a session when Basic Authentication is used.

Basic Authentication

HTTP basic authentication uses compliant TLS connections to transport the data between any third-party authentication service and clients. Use local BMC credentials or remote protocols like LDAP, Active Directory, or RADIUS to log in with basic authentication.

Session Management

You can use session management to implement authentication. This includes orphaned session timeouts and several simultaneous open sessions. You can create up to 16 sessions.

Step 1: You can post the following username/password information in the payload field, which will create a new session.

```
{  
  "UserName": "<username>",  
  "Password": "<password>"  
}
```

The user will receive the “201” message code with the X-AUTH token created.

Session lifetime: For Redfish sessions, as long as you send requests for the session within the session timeout period, the session will remain open and the session authentication token will remain valid. If the session times out, the session will be automatically terminated.

According to Redfish specification, a user can define session time from 30 to 86400 seconds. If you are not active in the defined time frame, the token will be rendered invalid. You can always patch the “SessionTimeout” value if needed.

Example: [PATCH] https://BMC_IP/redfish/v1/SessionService Payload: {"SessionTimeout": 50}

Session termination or logout: A Redfish session is terminated when you log out. This is accomplished by performing the DELETE method on the session resource identified by the link returned in the location header either when the session is created or if the Session ID is returned in the response data. Using the DELETE method on a session by specifying the session resource ID allows an administrator with sufficient privilege to terminate other users' sessions from a different session.

Example: [DELETE] [https://BMC_IP/redfish/v1/SessionService/Sessions/\[num\]](https://BMC_IP/redfish/v1/SessionService/Sessions/[num])

->Send->Status Code: 200 OK

Firmware Inventory and Update Service

Firmware Inventory

FirmwareInventory represents firmware version information for each component on the server.

URI: /redfish/v1/UpdateService/FirmwareInventory

Method: GET

Response: 200

```
{
  "@odata.type":
"#SoftwareInventoryCollection.SoftwareInventoryCollection",
  "@odata.id": "/redfish/v1/UpdateService/FirmwareInventory",
  "Id": "UpdateService",
  "Name": "Firmware Inventory Collection",
  "Members@odata.count": 19,
  "Members": [
    {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/BMC"
    },
    {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Backup_BMC"
    },
    {
      "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Golden_BMC"
    },
    {
```

```
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Staging_BMC"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/BIOS"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Backup_BIOS"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Golden_BIOS"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Staging_BIOS"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Capsule_BIOS"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Capsule_ME"
    },
    {
        "@odata.id":
"/redfish/v1/UpdateService/FirmwareInventory/Capsule_MCU"
    },
```

```
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/Golden_CPLD_Motherboard"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/CPLD_Motherboard"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/CPLD_Backplane_1"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/BIOS_ME"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/NIC1"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/NVMeController1"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/PowerSupply1"
},
{
    "@odata.id":
    "/redfish/v1/UpdateService/FirmwareInventory/PowerSupply2"
```

```

    }
  ],
  "Oem": {}
}

```

Firmware Resiliency Actions

Set the current active image as the golden template. If the current image is used as the golden image by the golden template under Supermicro's recommendation or the administrator's preference, then use this option to update the golden firmware image with the active firmware image.

Allowable values for Targets:

BMC: Use `/redfish/v1/Managers/1` to update golden firmware image for BMC.

BIOS: Use `/redfish/v1/Systems/1` to update golden firmware image for BIOS.

URI: `/redfish/v1/UpdateService/Actions/Oem/SmcUpdateService.Install`

Method: POST

Payload:

```

{
  "Targets": [ "/redfish/v1/Managers/1" ],
  "InstallOptions": [ "UpdateGolden" ]
}

```

Response: 200

Updating BIOS Firmware

To perform BIOS firmware update, use the image file available on the local system:

Allowable values for `@Redfish.OperationApplyTime`:

- Immediate: Start BIOS firmware update immediately after POST action to

/redfish/v1/UpdateService/upload

- OnStartUpdateRequest: upload firmware with POST action upload API and then BIOS firmware update will only start after POST action to

/redfish/v1/UpdateService/Actions/UpdateService.StartUpdate

StartUpdate API doesn't require any parameter in the payload.

URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{"Targets": ["/redfish/v1/Systems/1/Bios"],  
"@Redfish.OperationApplyTime": "Immediate",  
"Oem": { "Supermicro": { "BIOS": { "PreserveME": true, "PreserveNVRAM": true,  
"PreserveSMBIOS": true, "BackupBIOS": false } } } }
```

UpdateFile: <File>

Notes:

- Initiating a BIOS upgrade will first perform a system power off.
- On X12 (Whitley and Tatlow series), X13, and later platforms, only these commands are available for use when using this method: PreserveOA, PreserveSETUPCONF, PreserveSETUPPWD, PreserveSECBOOTKEY, PreserveBOOTCONF, and UpdateRollbackID (note that this only works for RoT).
- With RoT, only these commands are available for use when using this method: PreserveME, PreserveNVRAM, PreserveSMBIOS, and BackupBIOS.

Check BIOS update status in TaskService API.

URI: /redfish/v1/TaskService

Method: GET

Response: 200

When the update completes, check the BIOS version in UpdateService/FirmwareInventory.

Updating BMC Firmware

Use the image file available on the local system to update BMC firmware:

Allowable values for @Redfish.OperationApplyTime:

- **Immediate:** Start BMC firmware update immediately after POST action to /redfish/v1/UpdateService/upload

- **OnStartUpdateRequest:** upload firmware with POST action upload API and then BMC firmware update will only start after POST action to **/redfish/v1/UpdateService/Actions/UpdateService.StartUpdate**.

StartUpdate API doesn't require any parameter in the URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{
  "Targets": ["/redfish/v1/Managers/1"],
  "@Redfish.OperationApplyTime": "Immediate",
  "Oem": {
    "Supermicro": {
      "BMC": {
        "PreserveCfg": true,
        "PreserveSdr": true,
        "PreserveSsl": true,
        "BackupBMC": true
      }
    }
  }
}
```

UpdateFile: <File>

Check BMC update status in TaskService API

URI: /redfish/v1/TaskService

Method: GET

Response: 200

When the the update completes, check the BMC version in UpdateService/FirmwareInventory

Updating CPLD Firmware

There are two types of CPLD firmware to be updated:

Use the image file available on the local system to update CPLD motherboard firmware:

URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{
  "Targets": ["/redfish/v1/UpdateService/FirmwareInventory/CPLD_Motherboard"],
  "@Redfish.OperationApplyTime": "Immediate"
}
```

UpdateFile: <File>

Note: After Motherboard CPLD update, it will trigger a BMC reset.

Use the image file available on the local system to update CPLD backplane firmware:

URI: /redfish/v1/UpdateService/FirmwareInventory

Method: POST

Response: 202

UpdateParameters:

```
{
  "Targets": [ "/redfish/v1/UpdateService/FirmwareInventory/CPLD_Backplane_[id]"
    , "@Redfish.OperationApplyTime": "Immediate"
  ]
}
```

UpdateFile: <File>

Simple Update

Simple Update only supports BMC and BIOS. You can update the installed software component(s) as contained within a software image file located at a URI referenced by the ImageURI parameter, and preserve BMC config, SSL, SDR, and SMBIOS, BIOS BootConfig by default.

You are required to prepare the FTP, HTTP, or HTTPS file server to put BMC or BIOS firmware image file.

It is advised to power off on the host side before conducting a BIOS FW update.

URI: /redfish/v1/UpdateService/Actions/UpdateService.SimpleUpdate

Method: POST

Response: 202

Payload:

```
{
  "ImageURI": "<file ip>/<path and image file name>",
  "TransferProtocol": "FTP",
  "Targets": [ "/redfish/v1/Managers/1" ]
}
```

Target value:

For BIOS Update, use `"/redfish/v1/Systems/1"`.

For BMC Update, use `"/redfish/v1/Managers/1"`.

Updating Broadcom Storage Controller Firmware

You can check if the controller firmware update is supported or not under `/redfish/v1/UpdateService/FirmwareInventory/Broadcom[num]`.

To update Broadcom firmware using the image file available on the local system:

URI: `/redfish/v1/UpdateService/upload`

Method: POST

Response: 202

UpdateParameters:

```
{"Targets": ["/redfish/v1/Systems/1/Storage/HARAIID#/StorageControllers/[num]"],
```

```
@Redfish.OperationApplyTime": "OnStartUpdateRequest"}
```

UpdateFile: <File>

Note: Currently, this is supported to update HA-RAID 3108, 38xxIR, 39xx, and BCOM 3916. After the update, it needs a system reboot for the new firmware to take effect.

Updating Marvell Storage Controller Firmware

You can check if the controller firmware update is supported or not under `/redfish/v1/UpdateService/FirmwareInventory/Marvell[num]`.

To update Marvell firmware using the image file on the local system:

URI: `/redfish/v1/UpdateService/upload`

Method: POST

Response: 202

UpdateParameters:

```
{"Targets": ["/redfish/v1/Systems/1/Storage/MRVL.HARAIID#/StorageControllers/[num]"],
```

```
"@Redfish.OperationApplyTime": "OnStartUpdateRequest"}
```

UpdateFile: <File>

Updating AOC NIC Firmware

“NIC [num]” exists under the Redfish/v1 directory when your AOC NIC controller is supported. To ensure that you can update the AOC NIC controller firmware, check if “NIC [num]” exists in the URI /redfish/v1/UpdateService/FirmwareInventory/NIC[num].

To update AOC NIC firmware, use the image file on the local system:

URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{"Targets":["/redfish/v1/UpdateService/FirmwareInventory/NIC[num]"],
"@Redfish.OperationApplyTime":"OnStartUpdateRequest"}
```

UpdateFile: <File>

Updating UBB CPLD Firmware

URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{"Targets":["/redfish/v1/UpdateService/FirmwareInventory/UBB_1_CPLD_1"],
"@Redfish.OperationApplyTime":"Immediate"}
```

UpdateFile: <File>

Updating UBB Retimer Firmware

URI: /redfish/v1/UpdateService/upload

Method: POST

Response: 202

UpdateParameters:

```
{"Targets":["/redfish/v1/UpdateService/FirmwareInventory/UBB_1_Retimer_1"],
"@Redfish.OperationApplyTime":"Immediate"}
```

UpdateFile: <File>

Updating SSL Certificate and Key

Update the SSL certificate and key for a secure web server connection.

URI: /redfish/v1/UpdateService/Oem/Supermicro/SSLCert/Actions/SmcSSLCert.Upload

Payload:

1. Change the type to “form-data”.
2. Select cert_file and key_file as keys, browse and select the respective files to upload.

Account Service

You can perform the following operations under `/redfish/v1/AccountService`.

Available Methods: Get,Patch

Creating a User

You can use the API and payload to create a new account and delete the respective accounts.

URI: `/redfish/v1/AccountService/Accounts`

Method: POST

Payload:

```
{
  "UserName": "User_Name",
  "Password": "User_Password",
  "RoleId": "Administrator",
  "Enabled": true
}
```

Note that the allowed values for “RoleId” are “Administrator”, “Operator”, and “ReadOnly”. You can also verify the assigned privileges for different roles (“Administrator”, “Operator”, and “ReadOnly”) under `/redfish/v1/AccountService/Roles`.

Configuring User Lockout

URI: `/redfish/v1/AccountService`

Method: PATCH

Payload:

```
{
  "AccountLockoutThreshold": 2,
  "AccountLockoutDuration": 300,
  "AccountLockoutCounterResetAfter": 300
}
```

Active Directory

URI: /redfish/v1/AccountService

Method: PATCH

Payload:

```
{
  "ActiveDirectory": {"ServiceEnabled": true,
  "ServiceAddresses": ["ldap://<IP>:389"],
  "RemoteRoleMapping": [{"RemoteGroup": "cn=ipmiswqa,dc=satc,dc=com",
  "LocalRole": "Administrator"}]}
```

LDAP

URI: /redfish/v1/AccountService

Method: PATCH

Payload:

```
{
  "LDAP": {"ServiceEnabled": true,
    "ServiceAddresses": ["ldap://<IP>:389"],
    "Authentication": {"Username": "cn=Manager, dc=satc, dc=com",
    "Password": "secret"},
    "RemoteRoleMapping": [{"RemoteUser": "tester001", "LocalRole":
    "Administrator"}],
    "LDAPService": {"SearchSettings": {"BaseDistinguishedNames":
    ["dc=satc, dc=com"], "UsernameAttribute": "cn"}}
  }
}
```

BIOS Configuration

Use BIOS APIs to configure properties related to BIOS. The Attribute Registry contains system-specific BIOS attributes and their dependent attributes.

Note: Changes in BIOS attributes require a system reboot to take effect.

Changing a Password

URI: /redfish/v1/Systems/1/Bios/Actions/Bios.ChangePassword

Method: POST

Payload:

```
{
  "PasswordName": "AdministratorPassword" or "UserPassword",
  "OldPassword": "(the existing BIOS password)",
  "NewPassword": "(the new BIOS password)"
}
```

Configuring BIOS over Redfish

URI: /registries/BiosAttributeRegistry.1.0.0.json

Method: GET

Response:

```
{
  "@odata.type": "#AttributeRegistry.v1_3_0.AttributeRegistry",
  "Description": "This registry defines a representation of BIOS
Attribute instances",
  "Id": "BiosAttributeRegistry.1_0_0",
  "Language": "en",
  "Name": "BIOS Attribute Registry",
  "OwningEntity": "Supermicro",
  "RegistryEntries": {
```

```

    "Attributes": [
        {
            "AttributeName": "QuietBoot_0027",
            "CurrentValue": true,
            "DefaultValue": true,
            "DisplayName": "Quiet Boot",
            "GrayOut": false,
            "HelpText": "Enables or disables Quiet Boot
option",
            "Hidden": false,
            "MenuPath": ".\\Advanced\\Boot Feature",
            "ReadOnly": false,
            "Type": "Boolean"
        },

```

Attributes: Contains the attributes and their possible values

```

{
    "AttributeName": "OptionROMMessages_0028",
    "CurrentValue": "Force BIOS",
    "DefaultValue": "Force BIOS",
    "DisplayName": "Option ROM Messages",
    "GrayOut": false,
    "HelpText": "Set display mode for Option ROM",
    "Hidden": false,
    "MenuPath": ".\\Advanced\\Boot Feature",
    "ReadOnly": false,
    "Type": "Enumeration",
    "Value": [
        {
            "ValueDisplayName": "Force BIOS",

```

```

        "ValueName": "1"
    },
    {
        "ValueDisplayName": "Keep Current",
        "ValueName": "0"
    }
]
},

```

Menu: Contains the attributes menus and their hierarchy

```

"Menus": [
    {
        "DisplayName": "Main",
        "DisplayOrder": 1,
        "Hidden": false,
        "MenuName": "Main",
        "MenuPath": ".\Main",
        "ReadOnly": false
    },
    {
        "DisplayName": "Advanced",
        "DisplayOrder": 2,
        "Hidden": false,
        "MenuName": "Advanced",
        "MenuPath": ".\Advanced",
        "ReadOnly": false
    },

```

Dependencies: Lists dependencies of attributes on each component

```

"Dependencies": [
    {

```

```

        "Dependency": {
            "MapFrom": [
                {
                    "MapFromAttribute":
"WatchDogFunction_002E",
                    "MapFromCondition": "EQU",
                    "MapFromProperty": "CurrentValue",
                    "MapFromValue": "Disabled"
                }
            ],
            "MapToAttribute": "WatchDogAction_0030",
            "MapToProperty": "Hidden",
            "MapToValue": true
        },
        "DependencyFor": "WatchDogAction_0030",
        "Type": "Map"
    },

```

Modifying BIOS Attributes

You can GET the current setting and PATCH desired settings.

URI: /redfish/v1/Systems/1/Bios/SD

Method: PATCH

Response: 202

Payload:

```

{
    "Attributes": {
        "QuietBoot": false,
        "PowerButtonFunction": "4 Seconds Override"
    }
}

```

Note: After PATCH, you need to reset the system to apply the values to BIOS.

Viewing Pending Settings

You can view any pending settings after PATCH.

URI: /redfish/v1/Systems/1/Bios/SD

Method: GET

Response: 200

```
{
  "@odata.type": "#Bios.v1_1_1.Bios",
  "@odata.id": "/redfish/v1/Systems/1/Bios/SD",
  "Id": "SD",
  "Name": "BIOS Configuration Pending Settings",
  "AttributeRegistry": "BiosAttributeRegistry.v1_0_0",
  "Description": "BIOS Configuration Pending Settings. These
settings will be applied on <Font color=blue size=3>the</font> next
system reboot.",
  "Attributes": {
    "PowerButtonFunction": "4 Seconds Override",
    "QuietBoot": false
  },
  "@odata.etag": "\"6a07297d92419e04dfbec096920288b5\""
}
```

Resetting BIOS

POST a reset of the BIOS attributes to default values. After POST, you need to reset the system to apply values to BIOS.

URI: /redfish/v1/Systems/1/Bios/Actions/Bios.ResetBios

Method: POST

Response: 200

Boot Options

Use Redfish to change system boot order.

Configuring the Boot Order in System BIOS

- **BootSourceOverrideEnabled:** Describes the state of the Boot Source Override feature.
 - **Disabled:** The system will boot normally.
 - **Once:** The system will boot (one time) to the Boot Source OverrideTarget.
 - **Continuous:** The system will boot to the target specified in the Boot SourceOverrideTarget until this property is set to Disabled.
- **BootSourceOverrideMode:** The BIOS Boot Mode (either Legacy or UEFI) to be used when BootSourceOverrideTarget boot source is booted from.
 - **Legacy:** The system will boot in non-UEFI boot mode to the Boot Source Override Target.
 - **UEFI:** The system will boot in UEFI boot mode to the Boot Source Override Target.
 - **BootSourceOverrideTarget:** The current boot source to be used at the next boot instead of the normal boot device if BootSourceOverrideEnabled is true.

The values are allowed to set BootSourceOverrideTarget.

BootOption data provided by BIOS, so actual boot options depends on BIOS support.

- **BootSourceOverRideMode: UEFI**
 - BiosSetup
 - Pxe
 - Cd
 - Usb
 - Hdd
 - UefiBootNext
- **BootSourceOverRideMode: Legacy**
 - None
 - Pxe
 - Cd

- Floppy
- Usb
- Hdd
- BiosSetup
- UsbCd
- UefiBootNext

Example: Change BootSourceOverrideTarget to boot off virtual ISO.

URI: /redfish/v1/Systems/1

Method: PATCH

Payload:

```
{
  "Boot": {
    "BootSourceOverrideEnabled": "Once",
    "BootSourceOverrideMode": "Legacy",
    "BootSourceOverrideTarget": "UsbCd"  }
}
```

Configuring UefiBootNext

URI: /redfish/v1/Systems/1

Method: PATCH

Payload:

```
{
  "Boot": {
    "BootSourceOverrideTarget": "UefiBootNext",
    "BootNext": "Hdd"
  }
}
```

FixedBootOrder

You can check and change the current boot order.

Support after Redfish 1.11 (2020.3), X13/H13, and future platform support.

Changing the Boot Order

Getting the Current Boot Order

URI: /redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder

Method: GET

Response: 200

```
{
  "@odata.type": "#SmcFixedBootOrder.v1_0_0.SmcFixedBootOrder",
  "@odata.id":
"/redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder",
  "Id": "FixedBootOrder",
  "Name": "Fixed Boot Order",
  "BootModeSelected": "UEFI",
  "FixedBootOrder": [
    "UEFI USB CD/DVD:UEFI: ATEN Virtual CDROM YS0J",
    "UEFI Hard Disk",
    "UEFI AP:UEFI: Built-in EFI Shell",
    "UEFI Network",
    "UEFI USB Floppy",
    "UEFI CD/DVD",
    "UEFI USB Hard Disk",
    "UEFI USB Key",
    "UEFI USB Lan"
  ],
  "FixedBootOrderDisabledItem": [
    "Disabled"
  ],
  "UEFIAP": [
    "UEFI: Built-in EFI Shell"
  ],
}
```

```

    "UEFIAPDisabledItem": [
        "Disabled"
    ],
    "UEFIUSBCD/DVD": [
        "UEFI: ATEN Virtual CDROM YS0J"
    ],
    "UEFIUSBCD/DVDDisabledItem": [
        "Disabled"
    ],
    "@odata.etag": "\"506cd4cf4c3409c7c1a8e90a53825cb6\""
}

```

Changing the Current Boot Order

For the property “FixedBootOrder,” the boot order arrangement is decided by the group.

URI: /redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder

Method: PATCH

Step 1. Set the boot order of device groups.

Payload:

```

{
  "FixedBootOrder":["UEFI Hard Disk", "UEFI CD/DVD", "UEFI USB Hard
  Disk",
  "UEFI USB Key:UEFI OS (USB,Port:9)", "UEFI USB Floppy",
  "UEFI USB Lan", "UEFI Network:(B3/D0/F0) UEFI PXE IPv4 Intel(R) I210
  Gigabit Network Connection(MAC:7cc255144d22)",
  "UEFI AP:UEFI: Built-in EFI Shell"]
}

```

Step 2. Set the boot order of devices in each device group.

Payload:

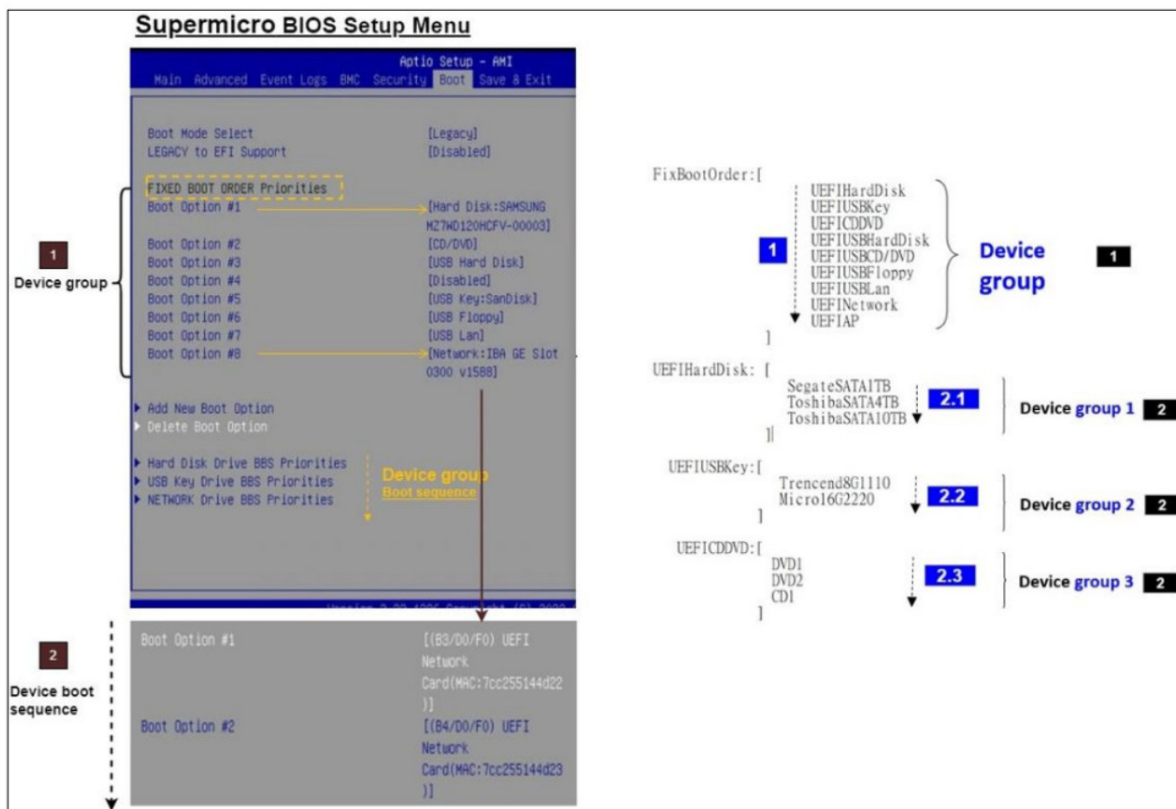
```

{
  "UEFIUSBKey":["UEFI OS (USB,Port:9)", "UEFI OS (USB,Port:6)"]
}

```

}

It is the same group setting as that in the Supermicro BIOS Setup Menu.



URI: /redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder

Method: PATCH

Payload: Please refer to the notes below.

Notes:

- The amount of Device Group of PATCH payload should be equal to that of the current fixed boot order setting.
- The fixed boot order cannot interlace different Device Groups.
- The amount of specific Device Group of PATCH payload should be equal to that of the current specific Device Group.
- For each Device Group, the first boot device in the order cannot be disabled. The disabled boot device must be after another enabled device.
- The Device Group and boot order of each Device Group should be changed if a user prefers to change both the Device Group and the specific Device Group boot order in the fix boot order setting.
- The new setting changes take effect after the system is reset.

Response: 202

Secure Boot

UEFI Secure Boot was created to enhance security in the pre-boot environment. Secure Boot helps firmware, operating system and hardware providers cooperate to thwart the efforts of malware developers.

Note: Please use the supported BIOS to use this function.

Enabling Redfish Secure Boot by GET

URI: /redfish/v1/Systems/1/SecureBoot

Method: GET

Response: 200

```
{
  "@odata.type": "#SecureBoot.v1_0_5.SecureBoot",
  "@odata.id": "/redfish/v1/Systems/1/SecureBoot",
  "Id": "Security Boot",
  "Name": "SecureBoot",
  "SecureBootCurrentBoot": "Disabled",
```

```

    "SecureBootEnable": false,
    "SecureBootMode": "SetupMode",
    "Actions": {
        "Oem": {},
        "#SecureBoot.ResetKeys": {
            "target":
"/redfish/v1/Systems/1/SecureBoot/Actions/SecureBoot.ResetKeys",
            "@Redfish.ActionInfo":
"/redfish/v1/Systems/1/SecureBoot/ResetKeysActionInfo"
        }
    }
}

```

Enabling Redfish Secure Boot by PATCH

URI: /redfish/v1/Systems/1/SecureBoot

Method: PATCH

Payload:

```

{
  "SecureBootEnable" : true
}

```

Response: 202

Confirming in Pending Settings

URI: /redfish/v1/Systems/1/Bios/SD

Method: GET

Response: 200

```

{
  "@odata.type": "#Bios.v1_1_1.Bios",
  "@odata.id": "/redfish/v1/Systems/1/Bios/SD",
  "Id": "SD",
  "Name": "BIOS Configuration Pending Settings",

```

```

    "AttributeRegistry": "BiosAttributeRegistry.v1_0_0",

    "Description": "BIOS Configuration Pending Settings. These
settings will be applied on <Font color=blue size=3>the</font> next
system reboot.",

    "Attributes": {

        "PowerButtonFunction": "4 Seconds Override",

        "QuietBoot": false

    },

    "@odata.etag": "\"6a07297d92419e04dfbec096920288b5\""
}

```

ResetKeyTypes URI: /redfish/v1/Systems/1/SecureBoot/Actions/SecureBoot.ResetKeys

Method: POST

Payload:

```

{
  "ResetKeyType": "DeleteAllKeys"
}

```

ResetKeyType allowable values:

- "ResetAllKeysToDefault"
- "DeleteAllKeys"
- "DeletePK"

Enabling Secureboot in BIOS

Set the three attributes below to BIOS to enable secureboot.

URI: /redfish/v1/Systems/1/Bios

Method: PATCH

Payload:

```

{
  "Attributes": {

    "SecureBoot" : "Enabled",

    "SecureBootMode": "User",

```

```
"ResetKeyType": "Delete PK Key"}
}
```

SecureBoot allowable values:

- "Enabled"
- "Disabled"

SecureBootMode allowable values:

- "Setup"
- "User"
- "Audit"
- "Deployed"

ResetKeyType allowable values:

- "Disabled"
- "Reset all keys to default"
- "Delete all keys"
- "Delete PK key"

Creating a Secure Boot Database

URI: /redfish/v1/Systems/1/SecureBoot/SecureBootDatabases/dbt/Certificates

Method: POST

Payload:

```
{
  "CertificateString" : "-----BEGIN CERTIFICATE-----\[Standard PEM
  Format]-----END CERTIFICATE-----", "CertificateType": "PEM"
}
```

Response: 201

```
{
  "@odata.type": "#Certificate.v1_0_0.Certificate",
  "@odata.id":
  "redfish/v1/Systems/SecureBoot/SecureBootDatabases/dbt/Certificates/2",
  "Id": 2,
```

```
"Name": "Authorized TimeStamps(dbt)",  
  "CertificateString": "-----BEGIN CERTIFICATE-----[Standard PEM Format]-----END  
CERTIFICATE-----",  
  "CertificateType": "PEM",  
  "Issuer": {  
    "CommonName": "Microsoft Root Certificate Authority 2010",  
    "Subject": {  
      "CommonName": "Microsoft Root Certificate Authority 2010",  
      "ValidNotBefore": "Mar 21 13:42:24 2022 GMT",  
      "ValidNotAfter": "Mar 18 13:42:24 2022 GMT",  
      "OEM": {}  
    }  
  }  
}
```

Certificate Service

The CertificateService describes a Certificate Service that represents the actions available to manage certificates and links to the certificates.

URI: /redfish/v1/CertificateService

Method: GET

Response: 200

```
{
  "@odata.type": "#CertificateService.v1_0_1.CertificateService",
  "@odata.id": "/redfish/v1/CertificateService",
  "Id": "CertificateService",
  "Name": "Certificate Service",
  "CertificateLocations": {
    "@odata.id":
"/redfish/v1/CertificateService/CertificateLocations"
  },
  "Actions": {
    "Oem": {
    },
    "#CertificateService.GenerateCSR": {
      "target":
"/redfish/v1/CertificateService/Actions/CertificateService.GenerateC
SR",
      "@Redfish.ActionInfo":
"/redfish/v1/CertificateService/GenerateCSRActionInfo"
    },
    "#CertificateService.ReplaceCertificate": {
      "target":
"/redfish/v1/CertificateService/Actions/CertificateService.ReplaceCe
rtificate",
```

```

        "@Redfish.ActionInfo":
        "/redfish/v1/CertificateService/ReplaceCertificateActionInfo"
    }
}
}

```

Generating CSR

Generate a certificate signing request (CSR) for the SSL certificate.

Generating CSR Action Info

View the list of supported and required parameters to generate CSR.

URI: /redfish/v1/CertificateService/GenerateCSRActionInfo

Method: GET

Response: 200

```

{
    "@odata.type": "#ActionInfo.v1_1_2.ActionInfo",
    "@odata.id":
    "/redfish/v1/CertificateService/GenerateCSRActionInfo",
    "Id": "GenerateCSRActionInfo",
    "Name": "Generate CSR Action Info",
    "Parameters": [
        {
            "Name": "CommonName",
            "Required": true,
            "DataType": "String"
        },
        {
            "Name": "AlternativeNames",
            "Required": false,
            "DataType": "StringArray"
        }
    ]
}

```

```
,
{
  "Name": "Organization",
  "Required": true,
  "DataType": "String"
},
{
  "Name": "OrganizationalUnit",
  "Required": true,
  "DataType": "String"
},
{
  "Name": "City",
  "Required": true,
  "DataType": "String"
},
{
  "Name": "State",
  "Required": true,
  "DataType": "String"
},
{
  "Name": "Country",
  "Required": true,
  "DataType": "String"
},
{
  "Name": "Email",
  "Required": false,
```

```
        "DataType": "String"
    },
    {
        "Name": "KeyPairAlgorithm",
        "Required": false,
        "DataType": "String",
        "AllowableValues": [
            "TPM_ALG_RSA"
        ]
    },
    {
        "Name": "KeyBitLength",
        "Required": false,
        "DataType": "Number",
        "MinimumValue": 1024,
        "MaximumValue": 4096
    },
    {
        "Name": "CertificateCollection",
        "Required": true,
        "DataType": "Object"
    },
    {
        "Name": "KeyUsage",
        "Required": false,
        "DataType": "StringArray",
        "AllowableValues": [
            "ServerAuthentication"
        ]
    }
}
```

```

        }
    ],
    "Oem": {}
}

```

Generating a CSR Request

This action is used to perform a certificate signing request.

URI: /redfish/v1/CertificateService/Actions/CertificateService.GenerateCSR

Method: POST

Payload:

```

{
  "Country": "US"
  "State": "California",
  "City": "San Jose",
  "Organization": "Supermicro Computer",
  "OrganizationalUnit": "PM",
  "CommonName": "Supermicro.com",
  "KeyPairAlgorithm": "TPM_ALG_RSA",
  "CertificateCollection": {"@odata.id":
    "/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates"}
}

```

Response: 200

Viewing Certificate Details

URI: /redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1

Method: GET

Response: 200

```

{
  "@odata.type": "#Certificate.v1_1_0.Certificate",

```

```

"@odata.id":
"/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1",
  "Id": "1",
  "Name": "HTTPS Certificate",
  "CertificateString": "-----BEGIN CERTIFICATE-----
\nMIIE3TCCA8WgAwIBAgIUcdkJIAR/gSwrinFL4k+XbWBnlR0wDQYJKoZIhvcNA
QEL\nBQAwgZ0xCzAJBgNVBAYTA1VTMRMwEQYDVQQIEwpDYWxpZm9ybmlhMREwDw
YDVQQH\nnEwhTYW4gSm9zZTEdMBsGA1UEChMUU3VwZXIgtWljbW8gQ29tcHV0ZXI
xETAPBgNV\nnBAsTCFNVZnR3YXJlMQ0wCwYDVQQDEwRJUE1JMSUwIwYJKoZIhvcN
AQkBFhZzdXBw\nnb3J0QHNlcGVybWljcm8uY29tMB4XDTIzMDUyMzAwMDAwMFOXD
TMzMDUyMzAwMDAw\nnMFowgZ0xCzAJBgNVBAYTA1VTMRMwEQYDVQQIEwpDYWxpZm9ybmlhMREwDwYDVQQH\nnEwhTYW4gSm9zZTEdMBsGA1UEChMUU3VwZXIgtWljbW8
gQ29tcHV0ZXIxETAPBgNV\nnBAsTCFNVZnR3YXJlMQ0wCwYDVQQDEwRJUE1JMSUw
IwYJKoZIhvcNAQkBFhZzdXBw\nnb3J0QHNlcGVybWljcm8uY29tMIIBIjANBgkqh
kiG9w0BAQEFAAOCAQ8AMIIBCgKC\nnAQEA3VUR7jUFM9R28bo4iXdtxxIsGgyNS5
0PMWud1LTIYN/U07ClLvKpOtHdFcDX\nnak7Rr6SyDfcoBTA8pxVbnxJarwKLE0X
6IWYTA15GGGydUL3RlZXqcVItx1GeXdtQ\nngQkbjGcHAHXDNnpPpIGp0YSZhAah
XW8i6gGsU8kTKDLgiOVmF1+Ni6yOaxkJCNOa\nnAVYH1Vi1UEwBdvmVF7FDdIVoY
rL/3lXKwijEFy/cy9WrloP0+kErf1TW9VB++gkH\nnYhn7OLfVY9ao4ZugF3jOv3
bnymF8Kf5UYXmvVkEwYo3qeUWk2/i+hw/FTYEGAWyn\nnqRkR7T8+M5+KCB6C/nF
4ei8XRwIDAQABo4IBETCCAQ0wHQYDVR0OBBYEFDNyIpBy\nnqt3xgWWPYIzmTMMR
ue0xMIHdBgNVHSMEdUwgdKAFDNyIpByqt3xgWWPYIzmTMMR\nnue0xoYGjpIGgM
IGdMQswCQYDVQQGEwJVUzETMBEGA1UECBMKQ2FsaWZvcmlpYTER\nnMA8GA1UEBx
MIU2FuIEpvc2UxHTAbBgNVBAoTFFNlcGVyIE1pY3JvIENvbXBldGVy\nnMREwDwY
DVQQLEwhTb2Z0d2FyZTENMAsgA1UEAxMESVBNSTElMCMGCSqGSIsb3DQeJ\nnARYW
c3VwcG9ydEBzdXBldm1pY3JvLmNvbYIUcdkJIAR/gSwrinFL4k+XbWBnlR0w\nnND
AYDVR0TBAUwAwEB/zANBgkqhkiG9w0BAQsFAAOCAQEAWgZ7y++TsCziQnbMq/PB
\nnKdD+fqt5vqYCBuW8oKrlTdLwq7JHd0KjXI3CXylg+AY454qxEwRC9dltaxaXl
yTH\nneF6WRQ/7fwpfkDE6II++yY1LCwGtmgw2pqbmepx1CEkSh2Ievlh2fGz3lB

```

```

MfKZLl\n/yIGKfyrs1ITUr3DdOQGoTU0/rh2rEcGHgkc7SOC2bKoi3S01pAl/zn
hzGTqObar\n4OZiOYSJWhMRJCqJsuJ9BC1fL71eCGqNx2u9YyWtveNmb6bdsYOq
A3Vczuke6uIK\nysWtfiALcDr6RbZ1kE9HZ3BTDDJvX8TV3nlvc6KCh6KFNVYRK
liMTWS9fZdIg5FR\nsQ==\n-----END CERTIFICATE-----",
"CertificateType": "PEM",
"Issuer": {
    "Country": "US",
    "State": "California",
    "City": "San Jose",
    "Organization": "Super Micro Computer",
    "OrganizationalUnit": "Software",
    "CommonName": "IPMI",
    "Email": "support@supermicro.com"
},
"Subject": {
    "Country": "US",
    "State": "California",
    "City": "San Jose",
    "Organization": "Super Micro Computer",
    "OrganizationalUnit": "Software",
    "CommonName": "IPMI",
    "Email": "support@supermicro.com"
},
"ValidNotBefore": "2023-05-23T00:00:00+00:00",
"ValidNotAfter": "2033-05-23T00:00:00+00:00",
"KeyUsage": [
    "ServerAuthentication"
],
"Actions": {

```

```

        "Oem": {},

        "#Certificate.Rekey": {

            "target":

"/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions
/Certificate.Rekey",

            "@Redfish.ActionInfo":

"/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/RekeyAc
tionInfo"

        },

        "#Certificate.Renew": {

            "target":

"/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions
/Certificate.Renew"

        }

    }

}

```

Replacing a Certificate

You can replace an existing certificate. Note that the new file must be a signed certificate.

Replacing Certificate Action Info

View the list of supported and required parameters to generate CSR.

URI: /redfish/v1/CertificateService/ReplaceCertificateActionInfo

Method: GET

Payload:

```

{
}

```

Response:

```

{

    "@odata.type": "#ActionInfo.v1_1_2.ActionInfo",

```

```

    "@odata.id":
"/redfish/v1/CertificateService/ReplaceCertificateActionInfo",
    "Id": "ReplaceCertificateActionInfo",
    "Name": "Replace Certificate Action Info",
    "Parameters": [
        {
            "Name": "CertificateString",
            "Required": true,
            "DataType": "String"
        },
        {
            "Name": "CertificateType",
            "Required": true,
            "DataType": "String",
            "AllowableValues": [
                "PEM"
            ]
        },
        {
            "Name": "CertificateUri",
            "Required": true,
            "DataType": "Object"
        }
    ],
    "Oem": {}
}

```

Renewing a Certificate

URI: /redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions/Certificate.Renew

Method: POST

Payload:

```
{
  "CertificateString": "-----BEGIN CERTIFICATE REQUEST-----
\nMIICvjCCAaYCAQAwTElMAkGA1UEBhMCVVMxEzARBgNVBAGTCkNhbGlmY3JuaWEEx\n
ETAPBgNVBACTCFNhbWVkb3NlMRwwGgYDVQKEExNTdXB1cm1pY3JvIENvbXBldGVy\n
swCQYDVQQLLEwJQTElMAkGA1UEAxMOU3VwZXJtaWV5by5jb20wggeiMA0GCSqG\n
nSIB3DQEBAAQAA4IBDwAwggEKAoIBAQDHmKX9rnVBenRS4OCAABBN1JPXLSy5lUO\n
\n8AYVzDAyBKsivNZSD9PTXRFYHketUwzihQk8Km3/DbFd2sF9ZIPCc8tiBls+5dkb\n
\nnp9g6qilv1FjvvVD0SYpYQl3km0JK1kh14AxEZARYfAI+j+RH/SA6+T6Nxzl2uB5K\n
\nnQQcMSdxjMVf4Q7zMWVFP0NTN6oQkaXXATxh4o9G+SkdDCqVSXD47aYz+2Vfu8gR\n
\nnHCXptNYTElCDN62iDoHAcPQjEuvloJqcKwXczFLgefUgsEQ9YzxYqx3lmpJrJYz/\n
\nnuUUbLlFlj7Tq91FfPntmRhIAMY8fGBrpqjJr9CsL7zMUv1R7DlWVAgMBAAGgADAN\n
\nnBgkqhkiG9w0BAQUFAAOCAQEAsnEznugI2+IZpjXiI7l+I3yDDQlv0jwtx7hYCu4\n
\nn6F5qlDRzzAlZNvBOopynEzkmmMq3vvpl2zdblEsYbLWcja+Tla+0UFgjILilIIOM\n
\nnnJDklpz34uzMAMQncAtJ1wtE3NWI6n6+Ni0lvwSqPv5svQ+7zHITfwWbHR4KLyMF\n
\nnPM2+XA/47UIq4+SPDPSxSjaWkFRXGrQKzy+aVH28X/SCVXEArU8UFDFfuILAHYKa\n
\nnoFDM3n3tbWcWVRyZdSPZVXYE9uWcZehlWIKh7t69gB6+WxjuONGCwviwNdX0x7A0\n
\nnLL8OdA5PISzKTGFESiEnGP914qyovQ3QgtsZZNtFMaz66B==\n
\n-----END CERTIFICATE REQUEST-----\n",
  "CertificateType": "PEM",
  "@odata.id":
  "/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1"
}
```

Response: 200

Replacing the Key Certificate

This action shall generate a new key pair for an existing certificate using the existing certificate data. The response shall contain a signing request that is to be signed by a certificate authority (CA). The service should retain the private key used for the generation of this request when the certificate is installed. The private key should not be part of the response.

URI: /redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions/Certificate.Rekey

Method: POST

Payload:

```
{  
  "KeyPairAlgorithm": "TPM_ALG_RSA"  
}
```

Response: 200

License Service

Creating a New License

URI: /redfish/LicenseService/Licenses

Method: POST

Response: 201

Payload:

```
{  
  
  "LicenseString": "eyJQcm9kdWN0S2V5Ijp7Ik5vZG.....(skip) "  
  
}
```

Replacing a New License

URI: /redfish/LicenseService/Licenses

Method: POST

Response: 200

Payload:

```
{  
  
  "LicenseString": "eyJQcm9kdWN0S2V5Ijp7Ik5vZG.....(skip) "  
  
}
```

Event Service

The event service is an alert mechanism for Redfish. This alert will be sent out through HTTP or HTTPS to a web service that is subscribed to the service.

Adding a Subscription

Edit a subscription to configure alerts/events.

URI: /redfish/v1/EventService/Subscriptions/[id]

Method: PATCH

Payload:

```
{
  "Destination": "example@main.com",
  "Context": "user1_test",
  "EventTypes": ["Alert", "StatusChange"],
  "Protocol": "SMTP",
  "Oem": {"Supermicro": {
    "Severity": "Information",
    "EnableSubscription": true}}
}
```

Response: 200

Destination: Value shall contain a URI or email to the destination where the events will be sent.

Context: Value is a client-supplied string that is stored with the event destination subscription.

EnableSubscription: Enable or Disable subscription by setting the value to be true or false.

Protocol: This property shall contain the protocol type that the event will use for sending the event to the destination. A value of Redfish shall be used to indicate that the event type shall adhere to that defined in the Redfish specification.

Allowable values:

- SNMPv1
- SMTP

- Redfish
- SNMPv3

EventTypes: This property shall contain the types of events you want to receive.

Allowable values:

- StatusChange
- ResourceUpdated
- ResourceAdded
- ResourceRemoved
- Alert

Severity: This property shall contain the severity of the event that you want to configure.

Allowable values:

- Information
- Warning
- Critical

Note: MI300X now supports event subscription with Redfish and SMTP.

Viewing All Subscriptions

To view all subscriptions, follow these steps.

URI: /redfish/v1/EventService/Subscriptions

Method: GET

```
{
  "@odata.type":
"#EventDestinationCollection.EventDestinationCollection",
  "@odata.id": "/redfish/v1/EventService/Subscriptions",
  "Name": "Event Subscriptions Collection",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/EventService/Subscriptions/1"
    },
  ],
}
```

```
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/2"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/3"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/4"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/5"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/6"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/7"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/8"
},
{
    "@odata.id":
"/redfish/v1/EventService/Subscriptions/9"
```

```
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/10"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/11"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/12"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/13"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/14"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/15"
    },
    {
        "@odata.id":
        "/redfish/v1/EventService/Subscriptions/16"
    }
],
"Members@odata.count": 16
```

```
}
```

Deleting a Subscription

You can delete or erase a subscription.

URI: /redfish/v1/EventService/Subscriptions/[num]

Method: DELETE

Testing an Event Subscription

You can send a test event with “SendTestEvent” or generate an event in the BMC, Redfish will then automatically send event alerts to the subscriber(s).

URI: /redfish/v1/EventService/Actions/EventService.SubmitTestEvent

Payload:

```
{
  "MessageId": "Event.1.0.0AlertSendTest"
}
```

You need to implement a RESTful event listener that can receive HTTP or HTTPS POST data that describes the Redfish event format. It can also subscribe to multiple services.

Refer to the [Redfish-Event-Listener project page at GitHub](#) to test Event Subscriptions or setup a Redfish Event Listener.

Example of data from Redfish Event Listener:

Time: Tue Feb 12 16:49:28 2019 *Count:* 1

Host IP: ('BMC_IP', 38486)

Event Details: {'@odata.context':

'/redfish/v1/\$metadata#EventService/Members/Events/58', '@odata.id':

'/redfish/v1/EventService/Events/58', '@odata.type':

'#EventService.v1_0_0.Event', 'Id': '58', 'Name': 'Event Array',

'Events': [{'EventType': 'Alert', 'Severity': 'OK', 'EventTimestamp':

'2019/02/13 00:49:04', 'Message': 'Submit Test Event', 'MessageArgs':

['/redfish/v1/EventService/Actions'], 'MessageId': '0',

'OriginOfCondition': {'@odata.id': '/redfish/v1/EventService'},

'Context': 'Public']}]}

Time: Tue Feb 12 16:52:24 2019 Count: 2

Host IP: ('BMC_IP', 38500)

Event Details: {'@odata.context':

'/redfish/v1/\$metadata#EventService/Members/Events/59', '@odata.id':

'/redfish/v1/EventService/Events/59', '@odata.type':

'#EventService.v1_0_0.Event', 'Id': '59', 'Name': 'Event Array',

'Events': [{ 'EventType': 'Alert', 'Severity': 'Info',

'EventTimestamp': '2019/02/13 00:52:00', 'Message': 'Web login was

successful.', 'MessageArgs': [], 'MessageId': 'Alert.1.0.LoginWeb',

'OriginOfCondition': {}, 'Context': 'Public']}]}

Virtual Media Management

Mounting and Configuring the Virtual Media Settings

URI: /redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.InsertMedia

Method: POST

Payload:

```
{  
  "Image": "<host>/<path>",  
  "UserName": "some_username",  
  "Password": "some_password"  
}
```

Response: 202

Checking the Task State

URI: /redfish/v1/TaskService/Tasks/[TASK_NUM]

Method: Get

Verifying the ISO was Mounted by the Redfish Command

URI: /redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]

Method: GET

Payload:

```
{  
  
}
```

Unmounting the ISO

URI: /redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.EjectMedia

Method: POST

Payload:

```
{  
}
```

Verifying the ISO was Unmounted by the Redfish Command

Verify whether the ISO was unmounted using the Redfish command; the node should be removed.

URI: /redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]

Method: GET

Response: 200

Device Management

You can find details about all available network devices at `/redfish/v1/Chassis/1/PCleDevices`

NIC Device

URI: `/redfish/v1/Chassis/1/PCleDevices/NIC1`

Method: GET

Response: 200

```
{
  "@odata.type": "#PCIeDevice.v1_4_0.PCIeDevice",
  "@odata.id": "/redfish/v1/Chassis/1/PCleDevices/NIC1",
  "Id": "NIC1",
  "Name": "PCIeDevices",
  "Description": "NIC device (riser: RSC-D-6G5)",
  "Manufacturer": "Supermicro",
  "Model": "",
  "SerialNumber": "",
  "PartNumber": "",
  "DeviceType": "MultiFunction",
  "FirmwareVersion": "",
  "Status": {
    "State": "Disabled",
    "Health": "OK",
    "HealthRollup": "OK"
  },
  "PCIeInterface": {
    "PCIeType": "Gen1",
    "MaxPCIeType": "Gen5",
    "LanesInUse": 8,
```

```
        "MaxLanes": 8
    },
    "PCIEFunctions": {
        "@odata.id":
"/redfish/v1/Chassis/1/PCIEDevices/NIC1/PCIEFunctions"
    },
    "Links": {
        "Chassis": [
            {
                "@odata.id": "/redfish/v1/Chassis/1"
            }
        ]
    },
    "Oem": {}
}
```

GPU

URI: /redfish/v1/Chassis/1/PCIEDevices/GPU1

Method: GET

Response: 200

NVMeSSD

URI: /redfish/v1/Chassis/1/PCIEDevices/NVMeSSD1

Method: GET

Response: 200

PCIe Functions

URI: /redfish/v1/Chassis/1/PCIEDevices/GPU1/PCIeFunctions/1

Method: GET

Response: 200

RAID Management

You can manage RAID using storage subsystem schema and its properties. Storage APIs represent a set of controllers and its resources like volumes, drives, etc. For details about storage controller firmware updates, see ["Updating Broadcom Storage Controller Firmware" on page 28](#) or ["Updating Marvell Storage Controller Firmware" on page 28](#).

URI: /redfish/v1/Systems/1/Storage

Method: GET

Response: 200

Viewing Details of HA-RAID Controller, Drive, and Volume

URI: /redfish/v1/Systems/1/Storage/HA-RAID

Method: GET

Response: 200

```
{
  "@odata.type": "#Storage.v1_9_0.Storage",
  "@odata.id": "/redfish/v1/Systems/1/Storage/HA-RAID",
  "Id": "HA-RAID",
  "Name": "HA Storage System",
  "StorageControllers": [
    {
      "@odata.id": "/redfish/v1/Systems/1/Storage/HA-RAID#/StorageControllers/0",
      "MemberId": "0",
      "Manufacturer": "Broadcom",
      "Model": "SAS 3908",
      "SerialNumber": "FW-00000000",
      "FirmwareVersion": "5.240.02-3768",
      "Status": {
        "State": "Enabled",
```

```

        "Health": "OK"
    },
    "Identifiers": [
        {
            "DurableName": null
        }
    ],
    "SupportedControllerProtocols": [
        "I2C",
        "PCIe"
    ],
    "SupportedDeviceProtocols": [
        "SATA",
        "SAS"
    ],
    "Oem": {
        "Supermicro": {
            "@odata.type": "#SmcStorageExtensions.v1_
0_0.StorageController",
            "BIOSBootMode": "PauseOnError",
            "JBODMode": "Disable",
            "BBU": {
                "Status": {
                    "State": "Enabled",
                    "Health": "OK"
                },
                "BBUStatus": "Not Install"
            }
        }
    }
}

```

```
        }
    },
],
"Controllers": {
    "@odata.id": "/redfish/v1/Systems/1/Storage/HA-RAID/Controllers"
},
"Drives": [
    {
        "@odata.id": "/redfish/v1/Chassis/HA-RAID.0.StorageEnclosure.0/Drives/Disk.Bay.1"
    },
    {
        "@odata.id": "/redfish/v1/Chassis/HA-RAID.0.StorageEnclosure.0/Drives/Disk.Bay.5"
    }
],
"Volumes": {
    "@odata.id": "/redfish/v1/Systems/1/Storage/HA-RAID/Volumes"
},
"Links": {
    "Enclosures": [
        {
            "@odata.id": "/redfish/v1/Chassis/HA-RAID.0.StorageEnclosure.0"
        }
    ],
    "SimpleStorage": {
        "@odata.id": "/redfish/v1/Systems/1/SimpleStorage/1"
```

```

        }

    },

    "Actions": {

        "Oem": {

            "#SmcHARAIIDController.Save": {

                "target": "/redfish/v1/Systems/1/Storage/HA-
RAID/Actions/Oem/SmcHARAIIDController.Save",

                "@Redfish.ActionInfo":
"/redfish/v1/Systems/1/Storage/HA-RAID/Oem/Supermicro/SaveActionInfo"

            },

            "#SmcStorage.CreateVolume": {

                "target": "/redfish/v1/Systems/1/Storage/HA-
RAID/Actions/Oem/SmcStorage.CreateVolume",

                "@Redfish.ActionInfo":
"/redfish/v1/Systems/1/Storage/HA-
RAID/Oem/Supermicro/CreateVolumeActionInfo"

            },

            "#SmcStorage.ClearVolumes": {

                "target": "/redfish/v1/Systems/1/Storage/HA-
RAID/Actions/Oem/SmcStorage.ClearVolumes",

                "@Redfish.ActionInfo":
"/redfish/v1/Systems/1/Storage/HA-
RAID/Oem/Supermicro/ClearVolumesActionInfo"

            }

        }

    },

    "Oem": {

    },

    "Description": "External RAID",

    "Status": {

        "State": "Enabled",

```

```

        "Health": "OK"
    },
    "@odata.etag": "\"55ae4cf460abfdb1c5fc50d7e434f83f\""
}

```

Viewing Details of HBA Controller, Drive and Volume

URI: /redfish/v1/Systems/1/Storage/HBA

Method: GET

Response: 200

```

{
    "@odata.type": "#Storage.v1_9_0.Storage",
    "@odata.id": "/redfish/v1/Systems/1/Storage/HBA",
    "Id": "HBA",
    "Name": "HBA Storage System",
    "StorageControllers": [
        {
            "@odata.id":
"/redfish/v1/Systems/1/Storage/HBA#/StorageControllers/0",
            "MemberId": "0",
            "Manufacturer": "Broadcom",
            "Model": "SAS3808",
            "SerialNumber": "UA20CS003047R101",
            "FirmwareVersion": "23.00.00.00",
            "Status": {
                "State": "Enabled",
                "Health": "OK"
            },
            "Identifiers": [
                {

```

```

        "DurableName": null
    }
],
"SupportedControllerProtocols": [
    "PCIe"
],
"SupportedDeviceProtocols": [
    "SATA",
    "SAS"
],
"Oem": {
}
}
],
"Controllers": {
    "@odata.id":
"/redfish/v1/Systems/1/Storage/HBA/Controllers"
},
"Drives": [
],
"Volumes": {
    "@odata.id": "/redfish/v1/Systems/1/Storage/HBA/Volumes"
},
"Links": {
    "Enclosures": [
    ],
    "SimpleStorage": {
        "@odata.id": "/redfish/v1/Systems/1/SimpleStorage/1"
    }
}

```

```

    },
    "Oem": {
    },
    "Description": "External HBA",
    "Status": {
        "State": "Enabled",
        "Health": "OK"
    },
    "@odata.etag": "\"a1ff5f1e00a725b15fb667521d51b022\""
}

```

Creating LSI31XX/38XXIR/39XX/4116 Logical Volume

URI: /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.CreateVolume

Method: POST

Payload:

```

{
    "ControllerId":0,
    "Raid": "RAID0",
    "Span": 1,
    "PhysicalDrives":["HA-RAID.0.Disk.0", "HA-RAID.0.Disk.1"],
    "UsePercentage":100,
    "LogicalDriveCount":1,
    "StripSizePerDDF":"256K",
    "LdReadPolicy": "NoReadAhead",
    "LdWritePolicy": "WriteBack",
    "LdIOPolicy": "DirectIO",
    "AccessPolicy": "ReadWrite",
    "DiskCachePolicy": "Unchanged",
    "InitState": "NoInit",

```

```
    "VdName": "VD"  
  }
```

Response: 200

Locating Physical HDD

URI: /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]

Method: PATCH

Payload:

```
{  
  "LocationIndicatorActive": true  
}
```

Response: 200

Locating Logical Volume

URI: /redfish/v1/Systems/1/Storage/HA- RAID/Volumes/Controller. [controller_num].Volume. [volume_num]/Actions/Oem/SmcVolume.Indicate

Method: POST

Payload:

```
{  
  "Active": true  
}
```

Response: 200

Deleting a Logical Volume

URI: /redfish/v1/Systems/1/Storage/HA- RAID/Volumes/Controller. [controller_num].Volume. [volume_num]/Actions/Oem/SmcVolume.Delete

Method: POST

Payload:

```
{
```

```
}
```

Response: 200

Clearing All Logical Volumes

URI: /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.ClearVolumes

Method: POST

Payload:

```
{  
  "ControllerId":0  
}
```

Response: 200

Saving HA-RAID Controller Configuration

URI: /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcHARAIDController.Save

Method: PATCH

Payload:

```
{  
  "ControllerId":0,  
  "BIOSBootMode": "PauseOnError",  
  "JBODMode": "Enable"  
}
```

Response: 200

Viewing Details of Marvell Controller, Drive, and Volume

URI: /redfish/v1/Systems/1/Storage/MRVL.HA-RAID

Method: GET

Response: 200

Creating a Virtual Drive for Marvell

URI: /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Actions/Oem/SmcStorage.CreateVD

Method: POST

Payload:

```
{
  "PD": ["MRVL.HA-RAID.0.StorageModule/Drives/Disk.Bay.0", "MRVL.HA-RAID.0.StorageModule/Drives/Disk.Bay.1"],
  "RaidLevel": "RAID1",
  "StripeBlock": "64K",
  "VDName": "SuperDrive"
}
```

Deleting a Virtual Drive for Marvell

URI: /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.DeleteVD

Method: POST

Payload:

```
{
}
```

Rebuilding a Virtual Drive for Marvell

URI: /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.RebuildVD

Method: POST

Payload:

```
{
}
```

Importing a Virtual Drive for Marvell

Insert or import a VD and register its UUID to Marvell FW. Wait for the next system power-on, and this UUID will be registered at Marvell FW.

URI: /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.ImportVD

Method: POST

Payload:

```
{  
  
}
```

NVME SSD

View NVME storage details.

URI: /redfish/v1/Systems/1/Storage/NVMeSSD

Method: GET

Response: 200

Intel VROC

LocationIndicatorActive

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Drives/1

Method: PATCH

Value: false

Payload:

```
{  
  "LocationIndicatorActive": true  
}
```

Response: 200

StatusIndicator

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Drives/1

Method: PATCH

Value: "OK"

Payload:

```
{  
  "StatusIndicator": "OK"  
}
```

Response: 200

HotspareType

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Drives/1

Method: PATCH

Value: "Global", "None"

Payload:

```
{  
  "HotspareType": "Global"  
}
```

```
}
```

Response: 200

WriteCacheEnabled

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Drives/1

Method: PATCH

Value: true, false

Payload:

```
{  
  "WriteCacheEnabled": true  
}
```

Response: 200

ControllerRates

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Controllers/1

Method: PATCH

Payload:

```
{  
  "ControllerRates":  
  {  
    "ConsistencyCheckRatePercent": 50  
  }  
}
```

Response: 200

CapacityBytes

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1

Method: PATCH

Payload:

```
{  
  "CapacityBytes": 0  
}
```

Response: 200

DisplayName

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1

Method: PATCH

Payload:

```
{  
  "DisplayName": "Renamed volume"  
}
```

Response: 200

WriteHoleProtectionPolicy

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1

Method: PATCH

Allowable value for WriteHoleProtectionPolicy: Off, DistributedLog, Journaling

Payload:

```
{  
  "WriteHoleProtectionPolicy": "Journaling",  
  "Links": {  
    "JournalingMedia": {  
      "@odata.id": "/redfish/v1/Systems/1/Storage/IntelVROC/Drives/6"  
    }  
  }  
}
```

Response: 200

Create Raid

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes

Method: POST

Payload:

```
{
  "Name": "Volume_001",
  "RAIDType": "RAID5",
  "CapacityBytes": 429496729600,
  "InitializeMethod": "Background",
  "StripSizeBytes": 8192,
  "WriteHoleProtectionPolicy": "Journaling",
  "Links": {
    "Drives": [
      {
        "@odata.id": "/redfish/v1/Systems/1/Storage/IntelVROC/Drives/6"
      },
      {
        "@odata.id": "/redfish/v1/Systems/1/Storage/IntelVROC/Drives/7"
      }
    ],
    "JournalingMedia": {
      "@odata.id": "/redfish/v1/Systems/1/Storage/IntelVROC/Drives/8"
    }
  }
}
```

Response: 200

Delete Volume

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1

Method: DELETE

Payload:

```
{  
}
```

Response: 200

ResetToDefaults

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Actions/Storage.ResetToDefaults

Method: POST

Allowable value: ResetAll, PreserveVolumes

Payload:

```
{  
  "ResetType": "ResetAll"  
}
```

Response: 200

SecureErase

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1/Actions/Drive.SecureErase

Method: POST

Payload:

```
{  
}
```

Response: 200

ChangeRAIDLayout

URI:

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1/Actions/Volume.ChangeRAIDLayout

StripSizeBytes:

For RAID0: 4096, 8192, 16384, 32768, 65536, 131072

For RAID1: 65536

For RAID5: 16384, 32768, 65536, 131072

For RAID10: 4096, 8192, 16384, 32768, 65536

RAIDType: RAID0, RAID1, RAID10, RAID5

Method: POST

Payload:

```
{  
  "StripSizeBytes": 16384,  
  "RAIDType": "RAID10",  
  "Drives": [  
    {  
      "@odata.id": "/redfish/v1/Systems/1/Storage/IntelVROC/Drives/6"  
    }  
  ]  
}
```

Response: 200

CheckConsistency

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1/Actions/Volume.CheckConsistency

Method: POST

Payload:

```
{  
}
```

Response: 200

ForceEnable

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1/Actions/Volume.ForceEnable

Method: POST

Payload:

```
{  
}
```

Response: 200

Initialize

URI: /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/1/Actions/Volume.Initialize

Method: POST

Payload:

```
{  
  "InitializeMethod": "Background"  
}
```

Response: 200

Network Management

EthernetInterfaces resources are used to manage BMC network configuration.

Viewing Network Settings

URI: /redfish/v1/Managers/1/EthernetInterfaces/1

Method: GET

Response: 200

```
{
  "@odata.type": "#EthernetInterface.v1_6_3.EthernetInterface",
  "@odata.id": "/redfish/v1/Managers/1/EthernetInterfaces/1",
  "Id": "1",
  "Name": "Manager Ethernet Interface",
  "Description": "Management Network Interface",
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "InterfaceEnabled": true,
  "LinkStatus": "LinkUp",
  "MACAddress": "3C:EC:EF:3B:FF:FF",
  "SpeedMbps": 1000,
  "SpeedMbps@Redfish.AllowableValues": [
    "100",
    "1000"
  ],
  "AutoNeg": true,
  "FullDuplex": true,
  "MTUSize": 1500,
```

```
"HostName": "local",
"FQDN": "local.supermicro.com",
"MaxIPv6StaticAddresses": 5,
"VLAN": {
    "VLANEnable": false,
    "VLANId": 0
},
"DHCPv4": {
    "DHCPEnabled": true,
    "UseDNSServers": false,
    "UseGateway": true,
    "UseNTPServers": false,
    "UseStaticRoutes": false,
    "UseDomainName": false,
    "FallbackAddress": "None"
},
"DHCPv6": {
    "OperatingMode": "Stateless",
    "UseDNSServers": false,
    "UseDomainName": false,
    "UseNTPServers": false,
    "UseRapidCommit": false
},
"IPv4Addresses": [
    {
        "Address": "10.10.10.221",
        "SubnetMask": "255.255.255.0",
        "AddressOrigin": "DHCP",
        "Gateway": "10.10.10.1"
```

```
    }  
  ],  
  "StatelessAddressAutoConfig": {  
    "IPv4AutoConfigEnabled": false,  
    "IPv6AutoConfigEnabled": true  
  },  
  "IPv4StaticAddresses": [  
    {  
      "Address": null,  
      "SubnetMask": null,  
      "Gateway": null  
    }  
  ],  
  "IPv6StaticAddresses": [  
    {  
      "Address": ":::",  
      "PrefixLength": 64  
    },  
    {  
      "Address": ":::",  
      "PrefixLength": 64  
    },  
    {  
      "Address": ":::",  
      "PrefixLength": 64  
    }  
  ]  
}
```

```
    },
    {
        "Address": "::",
        "PrefixLength": 64
    }
],
"IPv6StaticDefaultGateways": [
],
"IPv6DefaultGateway": "fe80::37a8:5e61:4a0b:c0c7",
"IPv6Addresses": [
    {
        "Address": "2111:1111::3eec:ffff:fe3b:e02f",
        "PrefixLength": 64,
        "AddressOrigin": "SLAAC",
        "AddressState": "Preferred"
    },
    {
        "Address": "fe80::3eec:ffff:fe3b:e02f",
        "PrefixLength": 64,
        "AddressOrigin": "LinkLocal",
        "AddressState": "Preferred"
    }
],
"NameServers": [
    "2111:1111::fd",
    "10.10.10.205"
],
"StaticNameServers": [
    "10.10.10.205",
```

```

        "10.10.10.226",
        "2001:db8::fd"
    ],
    "Oem": {
        "Supermicro": {
            "@odata.type": "#SmcEthernetInterfaceExtensions.v1_0_1.EthernetInterface",
            "IPProtocolStatus": "Dual",
            "UDID":
"0E:00:00:01:00:01:2C:4A:A1:C3:3C:EC:EF:3B:E0:2F",
            "LANInterface": "Failover",
            "LANInterface@Redfish.AllowableValues": [
                "Dedicated",
                "Shared",
                "Failover"
            ],
            "ActiveInterface": "Dedicated"
        }
    },
    "@odata.etag": "\"5667f8ea43ffd014901700ad70073bb2\""
}

```

IPv6 Configuration

URI: /redfish/v1/Managers/1/EthernetInterfaces/1

Method: PATCH

Payload:

```

{
  "IPv6StaticAddresses": [{"Address": "<IP>", "PrefixLength": 64}]
}

```

Host Interface

Enabling Host Interface

URI: /redfish/v1/Managers/1/HostInterfaces/1

Method: PATCH

Payload:

```
{  
  "InterfaceEnabled": true  
}
```

Response:

```
{  
  "@odata.type": "#HostInterface.v1_2_2.HostInterface",  
  "@odata.id": "/redfish/v1/Managers/1/HostInterfaces/1",  
  "Id": "1",  
  "Name": "Host Interface",  
  "Description": "Management Host Interface",  
  "HostInterfaceType": "NetworkHostInterface",  
  "Status": {  
    "State": "Enabled",  
    "Health": "OK"  
  },  
  "InterfaceEnabled": true,  
  "ExternallyAccessible": false,  
  "AuthenticationModes": [  
    "BasicAuth",  
    "RedfishSessionAuth"  
  ],  
  "HostEthernetInterfaces": {
```

```

        "@odata.id":
"/redfish/v1/Managers/1/HostInterfaces/1/HostEthernetInterfaces"
    },
    "ManagerEthernetInterface": {
        "@odata.id":
"/redfish/v1/Managers/1/EthernetInterfaces/ToHost"
    },
    "NetworkProtocol": {
        "@odata.id": "/redfish/v1/Managers/1/NetworkProtocol"
    },
    "Links": {
        "ComputerSystems": [
            {
                "@odata.id": "/redfish/v1/Systems/1"
            }
        ]
    },
    "Oem": {}
}

```

Editing a Host IP Address

URI: /redfish/v1/Systems/1/EthernetInterfaces/ToManager

Method: PATCH

Payload:

```

{
  "IPv4StaticAddresses": [{"Address": "169.254.3.<num>"}]
}

```

Telemetry Service

TelemetryService represents metrics collection and data logs for power consumption on the server. TelemetryService contains the below-collected resources.

URI: /redfish/v1/TelemetryService

Method: GET

Response: 200

```
{
  "@odata.type": "#TelemetryService.v1_2_0.TelemetryService",
  "@odata.id": "/redfish/v1/TelemetryService",
  "Id": "TelemetryService",
  "Name": "Telemetry Service",
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "SupportedCollectionFuntions": [
    "Average",
    "Minimum",
    "Maximum"
  ],
  "MetricDefinitions": {
    "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions"
  },
  "MetricReportDefinitions": {
    "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions"
  },
  "MetricReports": {
```

```

        "@odata.id": "/redfish/v1/TelemetryService/MetricReports"
    }
}

```

Metric Definitions

Metric Definitions contain the definition, metadata, or characteristics of a metric.

URI: /redfish/v1/TelemetryService/MetricDefinitions

Method: GET

Response: 200

```

{
    "@odata.type":
"#MetricDefinitionCollection.MetricDefinitionCollection",
    "@odata.id": "/redfish/v1/TelemetryService/MetricDefinitions",
    "Id": "MetricDefinitions",
    "Name": "Metric Definitions",
    "Description": "Metric Definitions view",
    "Members@odata.count": 9,
    "Members": [
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/AvgPowerConsumedHour"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedHour"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedHour"
        },

```

```

        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/AvgPowerConsumedDay"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedDay"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedDay"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/AvgPowerConsumedWeek"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedWeek"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedWeek"
        }
    ]
}

```

Metric Report Definitions

These definitions contain a descriptor of the metric report to be generated.

URI: /redfish/v1/TelemetryService/MetricReportDefinitions

Method: GET

Response: 200

```

{
  "@odata.type":
"#MetricReportDefinitionCollection.MetricReportDefinitionCollection",
  "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions",
  "Id": "MetricReportDefinitions",
  "Name": "Metric Report Definitions",
  "Description": "Metric Report Definitions view",
  "Members@odata.count": 9,
  "Members": [
    {
      "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/AvgPowerConsum
ptionHour"
    },
    {
      "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MinPowerConsum
ptionHour"
    },
    {
      "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MaxPowerConsum
ptionHour"
    },
    {
      "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/AvgPowerConsum
ptionDay"
    },
    {

```

```

        "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MinPowerConsumptionDay"
    },
    {
        "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MaxPowerConsumptionDay"
    },
    {
        "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/AvgPowerConsumptionWeek"
    },
    {
        "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MinPowerConsumptionWeek"
    },
    {
        "@odata.id":
"/redfish/v1/TelemetryService/MetricReportDefinitions/MaxPowerConsumptionWeek"
    }
]
}

```

Metric Reports

Metric Reports contain the location for the report generated from a metric report definition.

URI: /redfish/v1/TelemetryService/MetricReports

Method: GET

Response: 200

```

{
    "@odata.type":
"#MetricReportCollection.MetricReportCollection",
    "@odata.id": "/redfish/v1/TelemetryService/MetricReports",
    "Id": "MetricReports",
    "Name": "Metric Reports",
    "Description": "Metric Reports view",
    "Members@odata.count": 9,
    "Members": [
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricReports/AvgPowerConsumptionHour"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricReports/MinPowerConsumptionHour"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricReports/MaxPowerConsumptionHour"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricReports/AvgPowerConsumptionDay"
        },
        {
            "@odata.id":
"/redfish/v1/TelemetryService/MetricReports/MinPowerConsumptionDay"
        },
        {

```

```
        "@odata.id":  
        "/redfish/v1/TelemetryService/MetricReports/MaxPowerConsumptionDay"  
    },  
    {  
        "@odata.id":  
        "/redfish/v1/TelemetryService/MetricReports/AvgPowerConsumptionWeek"  
    },  
    {  
        "@odata.id":  
        "/redfish/v1/TelemetryService/MetricReports/MinPowerConsumptionWeek"  
    },  
    {  
        "@odata.id":  
        "/redfish/v1/TelemetryService/MetricReports/MaxPowerConsumptionWeek"  
    }  
]  
}
```

Dump Service

DumpService

DumpService APIs are used to dump and download debug information.

URI: /redfish/v1/Oem/Supermicro/DumpService

Method: GET

Response: 200

```
{
  "@odata.type": "#DumpService.v1_0_0.DumpService",
  "@odata.id": "/redfish/v1/Oem/Supermicro/DumpService",
  "Id": "DumpService",
  "Name": "Dump Service",
  "Description": "Dump Service",
  "Dumps": {
    "@odata.id":
"/redfish/v1/Oem/Supermicro/DumpService/Dumps"
  },
  "VideoCapture": {
    "CaptureVideoEnabled": false,
    "RecordPeriod": "POSTEnd"
  },
  "CrashScreenCapture": {
    "OSCrashDetectionEnabled": false
  },
  "Actions": {
    "Oem": {},
    "#OemDumpService.Collect": {
      "target": "/redfish/v1/Oem/Supermicro/DumpService/Act
ions/OemDumpService.Collect",
```

```

        "@Redfish.ActionInfo": "/redfish/v1/Oem/Supermicro/DumpService/CollectActionInfo"
      },
      "@odata.etag": "\"f225dfabefafd7ab551b9635e9308968\""
    }
  }
}

```

HostCrashDumps

When the host crash dump is created, you can download it from the HostCrashDumpURI.

URL: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

ActionType: Create, Delete, Download, Query

DumpType: BootProgressCode, CrashScreenCapture, VideoCapture, ScreenCapture, SDOReport, HostCrashDump, BIOSEvidence, BMCEvidence, SmartDrive, HGXFRUDump.RAW, HGXFRUDump

Notes:

- Cannot support crashdump during power off, should return 404.
- Crashdump can also download runtime errors with AMD CPUs.

With "ActionType": "Download" and "DumpType": "HostCrashDump":

- Download file will include 1 fatal error record + 10 runtime error records
- Up to 10 runtime error records with timestamps will be stored.
- If more than 10 records are logged, the oldest record will be replaced by the newest one.

With "ActionType": "Delete" and "DumpType": "HostCrashDump":

- To delete a package with runtime error records (content includes 1 fatal err record + max. 10 runtime err records)

With "ActionType": "Query" and "DumpType": "HostCrashDump"

- To check if a package exists (includes 1 fatal err record + max. 10 runtime err records)

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: GET

Response: 200

```

{
  "@odata.type": "#Dump.v1_1_0.Dump",

```

```

    "@odata.id":
"/redfish/v1/Oem/Supermicro/DumpService/Dumps/HostCrashDump",
    "Id": "HostCrashDump",
    "Description": "Host dump",
    "Size": 49139,
    "Reason": "Host failure",
    "Actions": {
        "Oem": {
            },
        "#SmcDump.Download": {
            "target":
"/redfish/v1/Oem/Supermicro/DumpService/Dumps/HostCrashDump/Actions/
SmcDump.Download"
        }
    },
    "@odata.etag": "\"ae12d4647e32eb925f33eac0c038604b\""
}

```

Enable/Disable AMD iHDT Service

Note: this function is supported beginning with X14/H14 motherboards.

URI: /redfish/v1/Oem/Supermicro/DumpService

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```

{
  "AMD_IHDTEnabled": true // Enable or Disable AMD iHDT service (YAAPD
daemon)
}

```

Downloading Crash Dump

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Filename: CDump.txt

Payload:

```
{  
}
```

Create ScreenCapture

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Payload:

```
{ "DumpType": "ScreenCapture", "ActionType": "Create" }
```

Download ScreenCapture

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Payload:

```
{ "DumpType": "ScreenCapture", "ActionType": "Download" }
```

Download VideoCapture

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Payload:

```
{ "DumpType": "VideoCapture", "ActionType": "Download" }
```

Download CrashScreenCapture

URI: /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Payload:

```
{ "DumpType": "CrashScreenCapture", "ActionType": "Download" }
```

Download SDOReport

Step 1:

URI: /redfish/v1/Systems/1

Method: PATCH

Response: 200

Payload:

```
{  
  "Boot" :  
  {  
    "BootSourceOverrideEnabled": "Once",  
    "BootSourceOverrideMode": "UEFI",  
    "BootSourceOverrideTarget" : "Diags"  
  }  
}
```

To trigger SDO test in next system boot

Step 2:

URI: /redfish/v1/Systems/1/Actions/ComputerSystem.Reset

Method: POST

Response: 200

Payload:

```
{ "ResetType" : "PowerCycle" }
```

Reboot the system. It automatically goes into SDO. The time of the generated report depends on the system. After SDO generates the report, system will automatically reboot.

Step 3:

URI:/redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Method: POST

Response: 200

Payload:

```
{ "DumpType": "SDOReport", "ActionType": "Download" }
```

Log Service

This resource represents system health event logs and maintenance event logs.

System Health Event Log

URI: /redfish/v1/Systems/1/LogServices/[logservice id]

Method: GET

Response: 200

```
{
  "@odata.type": "#LogService.v1_1_0.LogService",
  "@odata.id": "/redfish/v1/Systems/1/LogServices/Log1",
  "Id": "Log1",
  "Name": "Health Event Log Service",
  "MaxNumberOfRecords": 4096,
  "OverWritePolicy": "WrapsWhenFull",
  "DateTime": "2023-07-03T00:26:24Z",
  "DateTimeLocalOffset": "+00:00",
  "ServiceEnabled": true,
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "LogEntryType": "SEL",
  "Oem": {
    "Supermicro": {
      "@odata.type": "#SmcLogService.v1_0_0.LogService",
      "ACPowerOnEventLog": true,
      "FIFOEventLog": true,
      "SmartPowerEventLog": true
    }
  }
}
```

```

        }

    },

    "Entries": {

        "@odata.id":
"/redfish/v1/Systems/1/LogServices/Log1/Entries"

    },

    "Actions": {

        "Oem": {

            "#SmcLogService.ClearAcknowledgements": {

                "target":
"/redfish/v1/Systems/1/LogServices/Log1/Actions/Oem/SmcLogService.Cl
earAcknowledgements"

            }

        },

        "#LogService.ClearLog": {

            "target":
"/redfish/v1/Systems/1/LogServices/Log1/Actions/LogService.ClearLog"

        }

    }

}

```

Supported Actions

Clearing Logs

Use this API to delete all system health event log entries.

URI: /redfish/v1/Systems/1/LogServices/Log1/Actions/LogService.ClearLog

Method: POST

Response: 200

Clearing Acknowledgments

Use this API to clear acknowledgments to all log entries.

URI:

/redfish/v1/Systems/1/LogServices/Log1/Actions/Oem/SmcLogService.ClearAcknowledgements

Method: POST

Response: 200

Log Entry Collection

Navigate to view a collection of Log Entry resource instances.

/redfish/v1/Systems/1/LogServices

URI: /redfish/v1/Systems/1/LogServices/[logservice id]/Entries

Method: GET

Response: 200

```
{
  "@odata.type": "#LogEntryCollection.LogEntryCollection",
  "@odata.id": "/redfish/v1/Systems/1/LogServices/Log1/Entries",
  "Name": "Health Event Log Service Collection",
  "Description": "Collection of Health Event Logs",
  "Members": [
    {
      "@odata.type": "#LogEntry.v1_7_0.LogEntry",
      "@odata.id":
"/redfish/v1/Systems/1/LogServices/Log1/Entries/1",
      "Id": "1",
      "Name": "Health Event Log Entry 1",
      "EntryType": "SEL",
      "Severity": "Critical",
      "Created": "2023-08-14T22:06:39Z",
      "EntryCode": "Assert",
      "SensorType": "Physical Chassis Security",
      "SensorNumber": 170,
```

```

        "Message": "[SEC-0000] General chassis intrusion",
        "MessageId": "0x00FFFF",
        "Oem": {
            "Supermicro": {
                "MarkAsAcknowledged": false,
                "@odata.type":
"#SmcLogEntryExtensions.v1_0_1.LogEntry",
                "RawEventData": {
                    "EventDirAndType": "0x6F",
                    "SensorType": "0x05",
                    "SensorName": "Chassis Intru"
                }
            }
        }
    },
    "Members@odata.count": 1,
    "@odata.etag": "\"37923498b2bd37c38d9c1175d04bd122\""
}

```

Acknowledging an Event

URI: /redfish/v1/Systems/1/LogServices/Log1/Entries/[num]

Method: PATCH

Payload:

```

{
  "Oem":{ "Supermicro":{ "MarkAsAcknowledged": true } }
}

```

Response: 200

Maintenance Event Log

URI: /redfish/v1/Managers/1/LogServices/[logservice id]

Method: GET

Response: 200

Supported Actions

Clearing Logs

Use this API to delete all maintenance event log entries.

URI: /redfish/v1/Managers/1/LogServices/Log1/Actions/LogService.ClearLog

Method: POST

Response: 200

Log Entry Collection

Navigate to view the collection of Log Entry resource instances.

URI: /redfish/v1/Managers/1/LogServices/[logservice id]/Entries

Method: GET

Response: 200

```
{
  "@odata.type": "#LogEntryCollection.LogEntryCollection",
  "@odata.id": "/redfish/v1/Managers/1/LogServices/Log1/Entries",
  "Name": "Maintenance Event Log Service Collection",
  "Description": "Collection of Maintenance Event Logs",
  "Members": [
    {
      "@odata.type": "#LogEntry.v1_7_0.LogEntry",
      "@odata.id":
"/redfish/v1/Managers/1/LogServices/Log1/Entries/1",
      "Id": "1",
      "Name": "Maintenance Event Log Entry 1",
```

```
    "EntryType": "Oem",
    "Severity": "OK",
    "Created": "2023-08-14T22:03:18Z",
    "OemRecordFormat": "SMC",
    "Message": "[MEL-0123] Maintenance event logs were
cleared successfully.",
    "MessageId": "Event.1.0.BmcEvtCleared",
    "Oem": {
        "Supermicro": {
            "@odata.type":
"#SmcLogEntryExtensions.v1_0_1.LogEntry",
            "Interface": "Redfish",
            "User": "ADMIN",
            "Source": "10.124.1.193",
            "Category": "Others"
        }
    }
},
"Members@odata.count": 1,
"@odata.etag": "\"2dec7e96ae97a2a4208e182930a44753\""
}
```

JSON Schema

The JSON Schema File resource describes the location (URI) of a particular Redfish schema definition being implemented or referenced by a Redfish service.

URI: /redfish/v1/JsonSchemas

Method: GET

Response: 200

Registries

Registries define the messages for Redfish. Registries define the messages for Redfish, which in turn represents the registry properties. The Message ID is formed per the Redfish specification. It consists of the RegistryPrefix concatenated with the version concatenated with the unique identifier for the message registry entry.

URI:

/redfish/v1/Registries/Base

/redfish/v1/Registries/Event

/redfish/v1/Registries/SMC

/redfish/v1/Registries/BiosAttributeRegistry

Method: GET

Response: 200

```
{
  "@odata.type":
"#MessageRegistryFileCollection.MessageRegistryFileCollection",
  "@odata.id": "/redfish/v1/Registries",
  "Name": "Registry File Collection",
  "Description": "Registry Repository",
  "Members": [
    {
      "@odata.id":
"/redfish/v1/Registries/BiosAttributeRegistry"
    },
    {
      "@odata.id": "/redfish/v1/Registries/Base"
    },
    {
      "@odata.id": "/redfish/v1/Registries/Event"
    }
  ]
}
```

```
        "@odata.id": "/redfish/v1/Registries/SMC"
    }
],
"Members@odata.count": 4,
"@odata.etag": "\"2e96cc1f348b08e443619f3268361321\""
}
```

BMC Configuration Examples

You can integrate current APIs into their software and applications in order to receive all services provided by Redfish APIs.

System Reset

URI: /redfish/v1/Systems/1/Actions/ComputerSystem.Reset

Method: POST

ResetType: AllowableValues: ["On", "ForceOff", "GracefulShutdown", "GracefulRestart", "ForceRestart", "Nmi", "ForceOn", "PowerCycle"]

Response: 200

```
{
  "Success": {
    "code": "Base.v1_10_3.Success",
    "message": "Successfully Completed Request."
  }
}
```

Enable/Disable S5 Standby Fan Mode

Note: this function is supported beginning with X14/H14 motherboards.

URI: /redfish/v1/Chassis/1

Method: PATCH

AllowableValues: true, false

Payload:

```
{
  "Oem": {
    "Supermicro": {
      "StandbyPowerControl": {
        "AIOMEnabled": true
      }
    }
  }
}
```

```
        }
    }
}
```

Response: 200

Clear CMOS

Note: this function is supported beginning with X14/H14 motherboards.

URI: /redfish/v1/Systems/1/Actions/ComputerSystem.Decommission

Method: POST

Payload:

```
{
    "OEMDecommissionTypes": [
        "ClearCMOS"
    ]
}
```

Response: 200

Note: AC power will automatically restart

Remote Standby Power Cycle

Note: this function is supported beginning with X14/H14 motherboards.

URI: /redfish/v1/Systems/1/Actions/Oem/OemSystemExtensions.Reset

Method: POST

Response: 200

Payload:

```
{
    "ResetType": "ACCycle"
}
```

Notifications

SNMP

URI: /redfish/v1/Managers/1/NetworkProtocol

Method: PATCH

Payload:

```
{  
  "SNMP": {"ProtocolEnabled": true}  
}
```

SNMPv2

URI: /redfish/v1/Managers/1/NetworkProtocol

Method: PATCH

Payload:

```
{  
  "SNMP": {"EnableSNMPv2c": true}  
}
```

SNMPv3

URI: /redfish/v1/Managers/1/NetworkProtocol

Method: PATCH

Payload:

```
{  
  "SNMP": {"EnableSNMPv3": true}  
}
```

Syslog

URI: /redfish/v1/Managers/1/Oem/Supermicro/Syslog

Method: PATCH

Payload:

```
{
  "EnableSyslog": true,
  "SyslogPortNumber": 514,
  "SyslogServer": "10.136.176.16"
}
```

FanMode

URI: /redfish/v1/Managers/1/Oem/Supermicro/FanMode

Method: PATCH

Payload:

```
{
  "Mode": "FullSpeed"
}
```

Mode Allowable Values: {"Standard", "FullSpeed", "Optimal", "PUE2", "HeavyIO"}

NTP

URI: /redfish/v1/Managers/1/Oem/Supermicro/NTP

Method: GET

Response: 200

```
{
  "@odata.type": "#NTP.v1_0_2.NTP",
  "@odata.id": "/redfish/v1/Managers/1/Oem/Supermicro/NTP",
  "Id": "NTP",
  "Name": "NTP Service",
  "NTPEnable": false,
  "PrimaryNTPServer": "127.0.0.1",
  "SecondaryNTPServer": "127.0.0.1",
  "DaylightSavingTime": false,
  "@odata.etag": "\"cb0e722d1a8a503198dc783ddaffbe2e\""
}
```

```
}
```

URI: /redfish/v1/Managers/1/NetworkProtocol

Method: PATCH

Payload:

```
{  
    "NTP": {  
        "ProtocolEnabled": "true",  
        "NTPServers": "127.0.0.1",  
    }  
}
```

Response: 202

Note: Check the task monitor to check the progress for NTP.

NTP AutoDST Enabled

URI: /redfish/v1/Managers/1

Method: PATCH

Allowable Value: false, true

Response: 200

```
{  
    "AutoDSTEnabled": false  
}
```

Note: Can only PATCH true when timezone is supported.

SyncTime

URI: /redfish/v1/Managers/1/Actions/Oem/SupermicroManager.SyncTime

Method: POST

Value: Host

Response: 200

```
{
```

```
"TimeSource": "Host"
}
```

RADIUS

URI: /redfish/v1/Managers/1/Oem/Supermicro/RADIUS

Method: PATCH

Payload:

```
{
  "RadiusEnabled": true,
  "RadiusServerIP": "127.0.0.1",
  "RadiusPortNumber": 1812,
  "RadiusSecret": "SECRET"
}
```

Snooping

URI: /redfish/v1/Managers/1/Oem/Supermicro/Snooping

Method: GET

Response: 200

IP Access Control

URI: /redfish/v1/Managers/1/Oem/Supermicro/IPAccessControl

Method: PATCH

Payload:

```
{
  "ServiceEnabled": true
}
```

Adding a Rule

URI: /redfish/v1/Managers/1/Oem/Supermicro/IPAccessControl/FilterRules

Method: POST

Payload:

```
{
  "Address": "<IP>",
  "PrefixLength": 24,
  "Policy": "Accept"
}
```

Policy Allowable Values: "Accept", "Drop"

Deleting a Rule

URI: /redfish/v1/Managers/1/Oem/Supermicro/IPAccessControl/FilterRules/[num]

Method: DELETE

SMCRAKP

URI: /redfish/v1/Managers/1/Oem/Supermicro/SMCRAKP

Method: PATCH

Payload:

```
{
  "Mode": "Enabled"
}
```

iKVM

URI: /redfish/v1/Managers/1/Oem/Supermicro/iKVM

Method: GET

Response: {"Mode": "Relative"}

```
{
  "@odata.type": "#iKVM.v1_0_2.iKVM",
  "@odata.id": "/redfish/v1/Managers/1/Oem/Supermicro/iKVM",
  "Id": "iKVM",
  "Name": "iKVM",
  "Current interface": "HTML 5",
}
```

```

    "URI": "/redfish/GyoeHEnZlt76uco.IKVM"
  }

```

Use response property, “URI”, above to prepend “https://\${BMC_IP}” and paste this complete URL in a browser to render HTML5 iKVM.

Example of launching URL: https://{BMC_IP}/redfish/Kk1D4UVATDja0Jw.IKVM

iKVM Mouse Mode

URI: /redfish/v1/Managers/1/Oem/Supermicro/MouseMode

Method: PATCH

Payload:

```

{
  "Mode": "Relative"
}

```

Mode Allowable Values: "Absolute", "Relative", "Single"

KCS Channel Control

This API allows you to secure their environment by giving appropriate privileges to access the KCS interface.

URI: /redfish/v1/Managers/1/Oem/Supermicro/KCSInterface

Method: PATCH

Payload:

```

{
  "Privilege": "Administrator"
}

```

Privilege Allowable Values:

- Administrator: Users accessing KCS interface will be able to do all the operations that the administrator user can do.
- Operator: Users accessing KCS interface will be able to do all the operations that users with Operator privileges can do.

- User: Users accessing the KCS interface will be able to do all the operations that users with User privileges can do.
- Callback: This is the lowest privilege level. Only commands necessary to support initiating a Callback are allowed.
- DisableKCS: Disabling KCS function, only support after KCS version 1.1.0, you can check in "@odata.type".

URI: /redfish/v1/Managers/1/Oem/Supermicro/KCSInterface

Method: GET

Response: 200

```
{
  "@odata.type": "#KCSInterface.v1_1_0.KCSInterface",
  "@odata.id": "/redfish/v1/Managers/1/Oem/Supermicro/KCSInterface",
  "Id": "KCSInterface",
  "Name": "KCS Interface",
  "Privilege": "Administrator",
  "@odata.etag": "\"7f21b53f195494a7c2dad2008917b1d7\""
}
```

Getting MAC Addresses from System NICs

URI: /redfish/v1/Systems/1/EthernetInterfaces/1

Method: GET

Response: 200

```
{
  "@odata.type": "#EthernetInterface.v1_5_2.EthernetInterface",
  "@odata.id": "/redfish/v1/Systems/1/EthernetInterfaces/1",
  "Id": "1",
  "Name": "AOC_NIC1",
  "Description": "AOC-GTG-i2T #1",
  "Status": {
    "State": "Enabled",

```

```

        "Health": "OK"
    }

    "MACAddress": "7c:c2:55:06:00:56",

    "SpeedMbps": 0,

    "FQDN": ""
}

```

Chassis Intrusion

URI: /redfish/v1/Chassis/1

Method: GET/PATCH

Payload:

```

{

  "PhysicalSecurity":{"IntrusionSensor": "Normal"}

}

```

Network DNS

Supported Platforms	Supported BMC Firmware	Redfish User Guide Version
X12/H12	1.3.3 or later	Version 3.4

URI: /redfish/v1/Managers/1/EthernetInterfaces/1

Method: GET/PATCH

Payload:

```

{

  "StaticNameServers": [

    "10.10.10.1",

    "10.10.10.2"

  ]

}

```

LLDP

/redfish/v1/Managers/1/SharedNetworkPorts

URI: /redfish/v1/Managers/1/SharedNetworkPorts

Method: GET

Response: 200

```
{
  "@odata.type": "#PortCollection.PortCollection",
  "@odata.id": "/redfish/v1/Managers/1/SharedNetworkPorts",
  "Name": "SharedNetworkPorts Collection",
  "Description": "Collection of SharedNetworkPorts",
  "Members@odata.count": 1,
  "Members": [
    {
      "@odata.id": " /redfish/v1/Chassis/1/NetworkAdapters/1/Ports/1"
    }
  ],
  "@odata.etag": "894cb8ea4eb6da2fb62990a90f2d2859"
}
```

/redfish/v1/Managers/1/DedicatedNetworkPorts

URI: /redfish/v1/Managers/1/DedicatedNetworkPorts

Method: GET

Response: 200

```
{
  "@odata.type": "#PortCollection.PortCollection",
  "@odata.id": "/redfish/v1/Managers/1/DedicatedNetworkPorts",
  "Name": "DedicatedNetworkPorts Collection",
  "Description": "Collection of DedicatedNetworkPorts",
  "Members@odata.count": 1,
}
```

```
"Members":[
{
"@odata.id": "/redfish/v1/Managers/1/DedicatedNetworkPorts/1"
}
],
"@odata.etag": "2a446445042d962d51a0f0c17658d6e1"
}
```

/redfish/v1/Managers/1/DedicatedNetworkPorts/num

URI: /redfish/v1/Managers/1/DedicatedNetworkPorts/num

Method: GET

Response: 200

```
{
"@odata.type": "#Port.v1_8_0.Port",
"@odata.id": "/redfish/v1/Managers/1/DedicatedNetworkPorts/1",
"Id": "1",
"Name": "DedicatedNetworkPorts 1",
"Description": "DedicatedNetworkPorts 1 information",
"CurrentSpeedGbps": 1,
"MaxSpeedGbps": 1,
"LinkStatus": "LinkUp",
"LinkState": "Enabled",
"PortId": "1",
"PortProtocol": "Ethernet",
"LinkNetworkTechnology": "Ethernet",
"PortType": "BidirectionalPort",
"Status":{
"State": "Enabled",
"Health": "OK",
"HealthRollup": "OK"
```

```

},
"Ethernet":{
  "AssociatedMACAddresses":[
    "7C:C2:55:30:FB:F6"
  ],
  "LLDPEnabled": false,
  "LLDPReceive":{},
  "LLDPTransmit":{"ChassisIdSubtype": "NotTransmitted", "ChassisId":
    "", "ManagementAddressIPv4": "", "ManagementAddressIPv6": "",...}
},
"Oem":{
  "Supermicro":{
    "@odata.type": "#SmcPortExtensions.v1_0_0.Ports",
    "LLDPTransmitEnabled": false
  }
},
"@odata.etag": "b253ce04be488af8d0daf5daa707e43e"
}

```

CPU Power Capping

Note: Supported beginning with X14/H14.

Enable/Disable Power Capping

URI: /redfish/v1/Chassis/1/Controls/CPU_PowerLimit

Method: PATCH

Response: 200

Payload:

```

{
  "ControlMode":"Manual"
}

```

```
}
```

License Required: SFT-DCMS-SINGLE

Priviledge Required: ConfigureManager

Allowable Values: "Disabled": Control by this API is disabled. "Manual": Capping value is controlled by "SetPoint".

Set CPU Power Capping

URI: /redfish/v1/Chassis/1/Controls/CPU_PowerLimit

Method: PATCH

Response: 200

Payload:

```
{
  "SetPoint": 400
}
```

License Required: SFT-DCMS-SINGLE

Priviledge Required: ConfigureManager

Node Manager

Note: Supported beginning with X14/H14.

Enable/Disable Node Manager Policy Control

Enable/Disable All Domains

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
  "Status": {
```

```
"State": "Enabled"
}
}
```

Enable/Disable Individual Policy

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies/{PolicyID}

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
  "Status": {
    "State": "Enabled"
  }
}
```

Enable/Disable Individual Domain

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Domains/{DomainName}

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
  "Status": {
    "State": "Enabled"
  }
}
```

Set Node Manager Policy

Create Policy

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies

Method: POST**Response:** 201**License Required:** SFT-DCMS-SINGLE**Payload:**

```
{
    "CorrectionInMs" : 6000, // Correction Time
    "Domain" : "CPUSubsystem", // Policy will be applied into
the whole domain
    "Limit" : 0, // User configure actual power limit for the
assigned domain
    "Id" : "5", // User configure actual policy ID, after POST, API
will be .../Policies/5
    "LimitException": "NoAction", // Exception Action
    "PolicyStorage" : "Volatile", // Policy Storage Option
    "PowerCorrectionType":"Auto", // Aggressive CPU Power
Correction
    "StatisticsReportingPeriod" : "PT1S", // Statistic Reporting
Period in seconds
    "Status" : {
        "State" : "Enabled" // Policy Enabled or not
    },
    "Trigger": {
        "TriggerLimit" : 0, // Policy Trigger Limit
        "TriggerType": "AlwaysOn" // Policy Trigger Type
    }
}
```

Modify Policy**URI:** /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies/{PolicyID}**Method:** PATCH**Response:** 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
    "CorrectionInMs" : 6000, // Correction Time
    "Limit" : 0, // User configure actual power limit for the
assigned domain
    "LimitException": "NoAction", // Exception Action
    "PolicyStorage" : "Volatile", // Policy Storage Option
    "PowerCorrectionType":"Auto", // Aggressive CPU Power
Correction
    "StatisticsReportingPeriod" : "PT1S", // Statistic Reporting
Period in seconds
    "Status" : {
        "State" : "Enabled" // Policy Enabled or not
    },
    "Trigger": {
        "TriggerLimit" : 0, // Policy Trigger Limit
        "TriggerType": "AlwaysOn" // Policy Trigger Type
    }
}
```

Enable/Disable Policy

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies/{PolicyID}

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
    "Status": {
        "State": "Enabled" // To disable or enable policy
    },
}
```

```
}
```

Delete Policy

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies/{PolicyID}

Method: DELETE

Response: 200

License Required: SFT-DCMS-SINGLE

Reset Node Manager Statistics

Reset Statistics per Domain

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Domains/
{DomainName}/Actions/Domain.ResetStatistics

Method: POST

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{  
  
}
```

Reset Statistics per Policy

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies/
{PolicyId}/Actions/Policy.ResetStatistics

Method: POST

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{  
  
}
```

Set Node Manager Power Draw Range

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Domains/{DomainName}

Method: PATCH

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
...
    "Capabilities": {
        "Max": 600,
        "Min": 0
    }
...

```

Set Total Power Budget

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Policies

Method: POST

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
    "ComponentID": 255 // Each time with single ComponentID.
    "Domain": "CPUSubsystem", //
    "Limit": 1000, //
    "PolicyStorage" // Persistent or Volatile
}
```

Reset Node Manager

URI: /redfish/v1/Managers/1/Oem/Supermicro/NodeManager/Actions/NodeManager.Reset

Method: POST

Response: 200

License Required: SFT-DCMS-SINGLE

Payload:

```
{
}
```

Boot Certificates

URI: /redfish/v1/Systems/1/Boot/Certificates

Method: GET

Response: 200

```
{
  "@odata.type": "#CertificateCollection.CertificateCollection",
  "@odata.id": "/redfish/v1/Systems/1/Boot/Certificates",
  "Name": "Certificate Collection",
  "Description": "Certificate Collection",
  "Members@odata.count": 0,
  "Members": [],
  "@Redfish.SupportedCertificates": [
    "PEM"
  ],
  "@odata.etag": "ed264ad21e3740e5f8ad68c4e29e232b"
}
```

URI: /redfish/v1/Systems/1/Boot/Certificates

Method: POST

Response: 204

Payload:

```
{
  "CertificateString": "-----BEGIN CERTIFICATE-----\n{CERT}\n-----END\nCERTIFICATE-----".
  "CertificateType": "PEM"
}
```

URI: /redfish/v1/Systems/1/Boot/Certificates/[num]

Method: DELETE

Response: 202

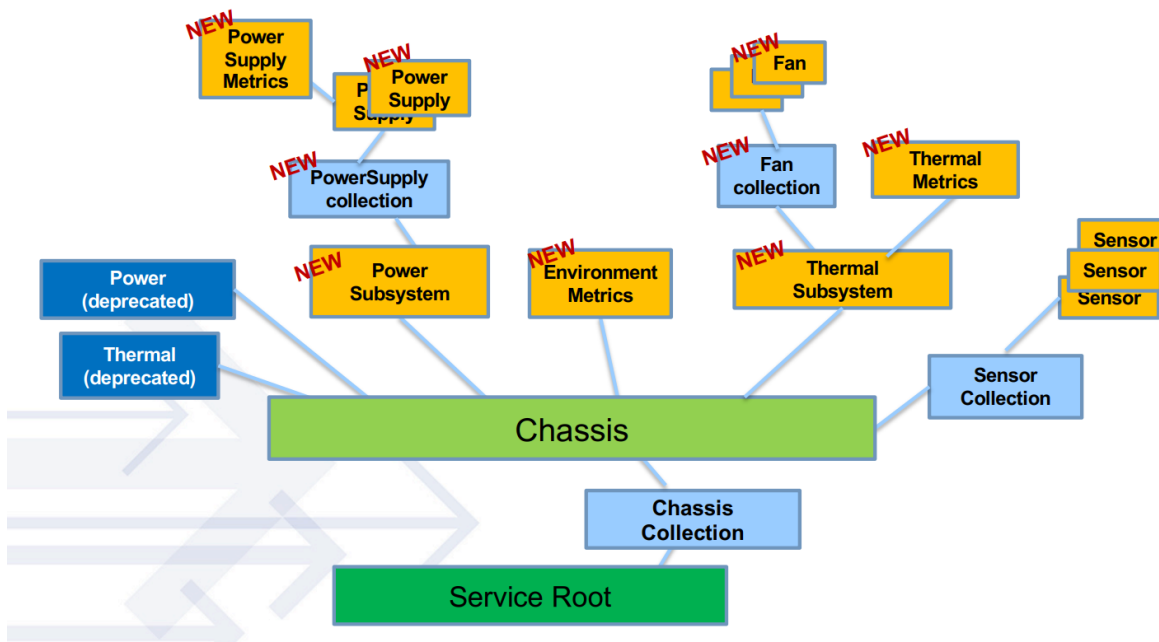
```

{
  "Accepted": {
    "code": "Base.v1_10_3.Accepted",
    "message": "Successfully Accepted Request. Please see the
location header and ExtendedInfo ...",
    "@Message.ExtendedInfo": [
      {
        "MessageId": "Base.1.10.ResetRequired",
        "Severity": "Warning",
        "Resolution": "Perform the required reset
action on the specified component.",
        "Message": "In order to complete the operation,
a component reset is required with...",
        "MessageArgs": [
          "/redfish/v1/Systems/1/Actions/ComputerSy
stem.Reset",
          "GracefulRestart"
        ],
        "RelatedProperties": [
          ""
        ]
      }
    ]
  }
}

```

Power and Thermal Resource Tree

Power and Thermal resource tree additions



Change section name as “Power and Thermal resource tree ...” Subsection will be “PowerSubsystem”, “ThermalSubsystem”,

Description: We will follow DMTF spec (2020.4) to deprecate schema Thermal and Power since X14 Reference Link: https://redfish.dmtf.org/schemas/Redfish_Release_History.pdf

Power Subsystem

/redfish/v1/Chassis/1/PowerSubsystem

URI: /redfish/v1/Chassis/1/PowerSubsystem

Method: GET

Response: 200

```
{
  "@odata.type": "#PowerSubsystem.v1_1_0.PowerSubsystem",
  "@odata.id": "/redfish/v1/Chassis/1/PowerSubsystem",
  "Id": "PowerSubsystem",
  "Name": "Power Subsystem for Chassis",
  "CapacityWatts": 0,
```

```

    "Allocation": {
        "AllocatedWatts": 0,
        "RequestedWatts": 0
    },
    "PowerSupplies": {
        "@odata.id":
"/redfish/v1/Chassis/1/PowerSubsystem/PowerSupplies"
    },
    "Status": {
        "State": "Absent"
    },
    "@odata.etag": "8050d2303d48732ce134491ef337276b"
}

```

/redfish/v1/Chassis/1/PowerSubsystem/PowerSupplies

URI: /redfish/v1/Chassis/1/PowerSubsystem/PowerSupplies

Method: GET

Response: 200

```

{
    "@odata.type": "#PowerSupplyCollection.PowerSupplyCollection",
    "@odata.id":
"/redfish/v1/Chassis/1/PowerSubsystem/PowerSupplies",
    "Name": "Power Supply Collection",
    "Description": "Power Supply Collection",
    "Members@odata.count": 0,
    "Members": [],
    "@odata.etag": "c3a55c3898f4be9d186aa3a7bf1f65ae"
}

```

Thermal Subsystem

/redfish/v1/Chassis/1/ThermalSubsystem

URI: /redfish/v1/Chassis/1/ThermalSubsystem

Method: GET

Response: 200

```
{
  "@odata.type": "#ThermalSubsystem.v1_0_0.ThermalSubsystem",
  "@odata.id": "/redfish/v1/Chassis/1/ThermalSubsystem",
  "Id": "ThermalSubsystem",
  "Name": "Thermal Subsystem for Chassis",
  "Fans": {
    "@odata.id": "/redfish/v1/Chassis/1/ThermalSubsystem/Fans"
  },
  "ThermalMetrics": {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/ThermalMetrics"
  },
  "Status": {
    "State": "Enabled",
    "Health": "OK"
  },
  "@odata.etag": "cf2acc17841d77f78e3d605be24f39f8"
}
```

/redfish/v1/Chassis/1/ThermalSubsystem/Fans

URI: /redfish/v1/Chassis/1/ThermalSubsystem/Fans

Method: GET

Response: 200

```
{
  "@odata.type": "#FanCollection.FanCollection",
  "@odata.id": "/redfish/v1/Chassis/1/ThermalSubsystem/Fans",
  "Name": "Fan Collection",
```

```
"Description": "Fan Collection",
"Members@odata.count": 8,
"Members": [
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN1"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN2"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN3"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN4"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN5"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN6"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN7"
  },
  {
    "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN8"
  }
]
```

```

    {
      "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN8"
    }
  ],
  "@odata.etag": "b9578f3d4600f31db6cffece0045f1"
}

```

/redfish/v1/Chassis/1/ThermalSubsystem/Fans/num

URI: /redfish/v1/Chassis/1/ThermalSubsystem/Fans/num

Method: GET

Response: 200

```

{
  "@odata.type": "#Fan.v1_1_0.Fan",
  "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/Fans/FAN1",
  "Id": "FAN1",
  "Name": "FAN1",
  "PhysicalContext": "Fan",
  "Location": {
    "PartLocation": {
      "LocationOrdinalValue": 1
    }
  },
  "SpeedPercent": {
    "DataSourceUri": "/redfish/v1/Chassis/1/Sensors/FAN1",
    "SpeedRPM": null
  },
  "Status": {
    "State": "Absent"
  },
}

```

```

    "@odata.etag": "2007a26bf1386afa81b3938752ab49d5"
  }

/redfish/v1/Chassis/1/ThermalSubsystem/ThermalMetrics

URI: /redfish/v1/Chassis/1/ThermalSubsystem/ThermalMetrics

Method: GET

Response: 200

{
  "@odata.type": "#ThermalMetrics.v1_0_1.ThermalMetrics",
  "@odata.id":
"/redfish/v1/Chassis/1/ThermalSubsystem/ThermalMetrics",
  "Id": "ThermalMetrics",
  "Name": "Chassis Thermal Metrics",
  "TemperatureReadingsCelsius": [],
  "@odata.etag": "a4db7f677c6260482aa1fa9db2632f08"
}

```

LeakDetection

Only supported for devices that have a Liquid-Cooling system.

URI: /redfish/v1/Chassis/1/Detectors

Method: GET

Response: 200

```

{
  "@odata.type": "#LeakDetectorCollection.LeakDetectorCollection",
  "@odata.id": "/redfish/v1/Chassis/1/LeakDetectors",
  "Name": "Collection of LeakDetector",
  "Description": "Collection of LeakDetectors",
  "Members@odata.count": 2,
  "Members": [
    {

```

```

        "@odata.id": "/redfish/v1/Chassis/1/LeakDetectors/CPU1_Coldplate"
      },
      {
        "@odata.id": "/redfish/v1/Chassis/1/LeakDetectors/CPU2_Coldplate"
      }
    ],
    "@odata.etag": "\"79ee848e77da7b57fdce8a4b3655992c\""
  }

```

/redfish/v1/Chassis/1/LeakDetectors[LeakDetectorsId]

Only supported for devices that have a Liquid-Cooling system.

URI: /redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorsId]

Method: GET

Response: 200

```

{
  "@odata.type": "#LeakDetector.v1_4_0.LeakDetector",
  "@odata.id": "/redfish/v1/Chassis/1/LeakDetectors/CPU1_Coldplate",
  "Id": "CPU1_Coldplate",
  "Name": "Moisture-type Leak Detector",
  "LeakDetectorType": "Moisture",
  "Enabled": true,
  "DetectorState": "Warning",
  "Status": {
    "State": "Absent",
    "Health": "Warning"
  },
  "Manufacturer": "Supermicro",
  "ReactionDelaySeconds": 10,
  "CriticalReactionType": "None",
  "Oem": {

```

```

      "Supermicro": {
        "@odata.type": "#SupermicroLeakDetectorExtensions.v1_0_0.LeakLeakDetector",
        "LeakDetectionLockEnabled": false
      }
    },
    "@odata.etag": "\"45ccbac3af8a52054cd259aa39c79f0e\""
  }
}

```

Enable / Disable specific leakage detected sensor

Only supported for devices that have a Liquid-Cooling system.

URI: /redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorsId]

Method: PATCH

Payload:

```

{
  "Enabled": true
}

```

Enable / Disable LeakDetection Lock

Only supported for devices that have a Liquid-Cooling system.

URI: /redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorsId]

Method: PATCH

Payload:

```

{
  "Oem": {
    "Supermicro": {
      "@odata.type": "#SupermicroLeakDetectorExtensions.v1_0_0.LeakLeakDetector",
      "LeakDetectionLockEnabled": false
    }
  }
}

```

```
}
```

PowerOption while it has LeakDetected

Only supported for devices that have a Liquid-Cooling system.

URI: /redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorsId]

Method: PATCH

Allowable Value: "None", "GracefulShutdown", "ForceOff"

Payload:

```
{
  "CriticalReactionType": "None",
  ...
}
```

Component Integrity

URI: /redfish/v1/ComponentIntegrity

Method: GET

Response: 200

```
{
  "@odata.type":
  "#ComponentIntegrityCollection.ComponentIntegrityCollect
  ion",
  "@odata.id": "/redfish/v1/ComponentIntegrity",
  "Name": "Component Integrity Collection",
  "Description": "Collection of Component Integrity
  Resource Instances",
  "Members@odata.count": 1,
  "Members": [
    {
      "@odata.id":
      "/redfish/v1/ComponentIntegrity/TPM_AMD_002d"
```

```

}
],
"@odata.etag": "\"78a07967aeac9bb0b6a0d459ddf3a613\""
}

```

Component Integrity for TPM

URI: /redfish/v1/ComponentIntegrity/TPM_{VendorID}_{handle}

Method: GET

Response: 200

```

{
"@odata.type":
"#ComponentIntegrity.v1_2_3.ComponentIntegr
ity",
"@odata.id":
"/redfish/v1/ComponentIntegrity/TPM_AMD_002
d",
"Id": "TPM_AMD_002d",
"Name": "Component Integrity",
"Description": "TPM Integrity for
TPM_AMD_002d",
"Status":{
"State": "Enabled",
"Health": "OK"
},
"ComponentIntegrityType": "TPM",
"ComponentIntegrityTypeVersion": "1.2.0",
(From SMBIOS type 43, Major Spec Version)
"ComponentIntegrityEnabled": true,
"TPM":{ (From bios external file)
"MeasurementSet":{

```

```

"Measurements": [
  {
    "PCR": 1,
    "Measurement": "{VALUE which been
Base64-encoded}",
    "MeasurementHashAlgorithm":
    "TPM_ALG_SHA256"
  },
  {
    "PCR": 2,
    "Measurement": "{VALUE which been
Base64-encoded}",
    "MeasurementHashAlgorithm":
    "TPM_ALG_SHA256"
  }
]
}
},
"@odata.etag":
"\0d47e797614b94532b70508c5c1a722f\"
}

```

Assembly

You can now find FRU information in this API

URI: /redfish/v1/Chassis/1/Assembly

Method: GET

Response: 200

```

{
  "@odata.type": "#Assembly.v1_4_0.Assembly",

```

```
"@odata.id": "/redfish/v1/Chassis/1/Assembly",
"Id": "Assembly",
"Name": "Assembly data for 1",
"Assemblies": [ {
"@odata.id": "/redfish/v1/Chassis/1/Assembly#/Assemblies/0",
"MemberId": "0",
"Name": "Board FRU Assembly",
"PhysicalContext": "Chassis",
"Vendor": "Supermicro",
"Model": null,
"ProductionDate": "1996-01-01T00:00:00Z",
"SerialNumber": null,
"PartNumber": null,
"Location": {
"PartLocation": {
"LocationType": "Embedded"
}
}
}, {
"@odata.id": "/redfish/v1/Chassis/1/Assembly#/Assemblies/1",
"MemberId": "1",
"Name": "Product FRU Assembly",
"PhysicalContext": "Chassis",
"Vendor": null,
"Model": null,
"Version": null,
"SerialNumber": "test123",
"PartNumber": null,
"Location": {
```

```
"PartLocation": {
  "LocationType": "Embedded"
}
}, {
  "@odata.id": "/redfish/v1/Chassis/1/Assembly#/Assemblies/2",
  "MemberId": "2",
  "Name": "Chassis FRU Assembly",
  "PhysicalContext": "Chassis",
  "SerialNumber": null,
  "PartNumber": null,
  "Location": {
    "PartLocation": {
      "LocationType": "Embedded"
    }
  }
},
"@odata.etag": "\"19bb92249b67a8dd889ad1f8a5afb3eb\""
}
```

Activating via Redfish API

URI: /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ActivateLicense

Method: POST

Payload:

```
{
  "ProductKey": { "Node": { "LicenseID": "2", "LicenseName": "SFT-DCMSSINGLE", "CreateDate": "20230407" }, "Signature": "Xe2bdYNKGkmPJ/E5wgO5nQG8aFgWrbZ8KRMngZwvB/gUDKu4dmtziB3BIgrOQ9BnmUbisCFIbtMYr9g0/tCdzLEGslJVWbeoHTD5AeYnsUW8LGSlyVFd3YpaUAJz0HP5M2mOej9jlPB6Cd7cK5oYJx3ILlpSOcR6ryB9hC2X3/EfUByCJT12KAiwXLhJ7RCV2P2EFDJ0bDim38hLmst1sAiwK829QtbLECftWOOyek+CPZnS11QxoJ4mTlBXH+LbKGpdq1bDv9iZqWAIjlqWHkYdszH/FDhmYaI12nOJZhJjj9TDPoHLHYGXTPvWlofou+0pzDbAtQ5KLUF2ZzoWQA==" }
}
```

Response: 200

```
{
  "Success": {
    "code": "Base.v1_10_3.Success",
    "message": "Successfully Completed Request."
  }
}
```

Available APIs

API List	License	Notes
/redfish	Standard	show version
/redfish/v1	Standard	service root
/redfish/v1/SessionService	Standard	
/redfish/v1/Chassis	Standard	
/redfish/v1/AccountService	Standard	
/redfish/v1/Managers	Standard	
/redfish/v1/Systems	Standard	
/redfish/v1/EventService	Standard	
/redfish/v1/UpdateService	Standard	
/redfish/v1/Registries	Standard	
/redfish/v1/JsonSchemas	Standard	
/redfish/v1/TaskService	Standard	
/redfish/v1/CertificateService	SFT-DCMS-SINGLE	
/redfish/v1/TelemetryService	Standard	
/redfish/v1/Oem/Supermicro/DumpService	Standard	
/redfish/v1/SessionService/Sessions	Standard	
/redfish/v1/SessionService/Sessions/[session_num]	Standard	
/redfish/v1/Chassis/1/PowerSubsystem/ PowerSupplies/[PowerSupplyId]/Assembly	Standard	
/redfish/v1/Chassis/Backplane_[num]_CPLD_[num]	Standard	
/redfish/v1/Chassis/1/Boards/OtherPCB_[num]	Standard	
/redfish/v1/Chassis/1/PowerSubsystem/ PowerSupplies/PSU_[num]	Standard	
/redfish/v1/Chassis/StorageController_[num]/Drives/ SSD[num]	Standard	
/redfish/v1/Chassis/1/Oem/Supermicro/MultiNodes	Standard	
/redfish/v1/Chassis/1/Oem/Supermicro/MultiNodes/ Node(arg)	Standard	
/redfish/v1/Chassis/1	Standard	
/redfish/v1/Chassis/1/Assembly	Standard	

API List	License	Notes
/redfish/v1/Chassis/1/Controls	Standard	
/redfish/v1/Chassis/1/Controls/CPU_PowerLimit	SFT-DCMS-SINGLE for PATCH	Support after X14/H14
/redfish/v1/Chassis/1/Drives/[string]	Standard	
/redfish/v1/Chassis/1/EnvironmentMetrics	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/1/Thermal	Standard	
/redfish/v1/Chassis/1/ThermalSubsystem	Standard	
/redfish/v1/Chassis/1/ThermalSubsystem/Fans	Standard	
/redfish/v1/Chassis/1/ThermalSubsystem/Fans/ Fan[num]	Standard	
/redfish/v1/Chassis/1/ThermalSubsystem/ ThermalMetrics	Standard	
/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection	SFT-DCMS-SINGLE	Deprecated after X14/H14
/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors	SFT-DCMS-SINGLE	Deprecated after X14/H14
/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/Leak Detectors/[LeakDetectorId]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors/Coldp late	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorId]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/1/Power	Standard	
/redfish/v1/Chassis/1/PowerSubsystem	Standard	
/redfish/v1/Chassis/1/PowerSubsystem/PowerSupplies	Standard	
/redfish/v1/Chassis/1/PowerSubsystem/ PowerSupplies/PowerSupply[num]	Standard	
/redfish/v1/Chassis/1/PowerSubsystem/ PowerSupplies/PowerSupply[num]/Metrics	Standard	
/redfish/v1/Chassis/1/Sensors	Standard	

API List	License	Notes
/redfish/v1/Chassis/1/Sensors/[sensor_num]	Standard	
/redfish/v1/Chassis/1/NetworkAdapters	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/Ports	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/Ports/[np_num]	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/NetworkPorts	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/NetworkPorts/[np_num]	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/NetworkDeviceFunctions	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/NetworkAdapters/[adapter_num]/NetworkDeviceFunctions/[ndf_num]	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/PCleSlots	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/PCleDevices	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Chassis/1/PCleDevices/NIC[aoc_card_num]	Standard	Network AOC installation is required; asset information of each AOC's NIC chip.

API List	License	Notes
/redfish/v1/Chassis/1/PCleDevices/NIC[aoc_card_num]/PCleFunctions	Standard	Network AOC installation is required; asset information of each AOC's NIC chip.
/redfish/v1/Chassis/1/PCleDevices/NIC[aoc_card_num]/PCleFunctions/[port_num]	Standard	Network AOC installation is required
/redfish/v1/Chassis/1/PCleDevices/GPU[gpu_card_num]	Standard	GPU card installation is required; asset information of GPU cards. (Model, P/N, S/N, FW ver, etc.)
/redfish/v1/Chassis/1/PCleDevices/GPU[gpu_card_num]/PCleFunctions	Standard	GPU card installation is required
/redfish/v1/Chassis/1/PCleDevices/GPU[gpu_card_num]/PCleFunctions/[gpu_instance_num]	Standard	GPU card installation is required; Detail information of GPU cards. (DeviceID, Capacity, location, etc.)
/redfish/v1/Chassis/1/PCleDevices/NVMeSSD[nvme_ssd_num]	Standard	Asset information of GPU cards. (Model, P/N, S/N, FW ver, etc.)
/redfish/v1/Chassis/1/PCleDevices/NVMeSSD[nvme_ssd_num]/PCleFunctions	Standard	
/redfish/v1/Chassis/1/PCleDevices/NVMeSSD[nvme_ssd_num]/PCleFunctions/[nvme_ssd_instance_num]	Standard	Detail information of GPU cards. (DeviceID, Capacity, location, etc.)
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/cards
/redfish/v1/Chassis/AOM_SCM	Standard	X14SBHM or other platforms with a similar design

API List	License	Notes
/redfish/v1/Chassis/AOM_SCM/Assembly	Standard	X14SBHM or other platforms with a similar design
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card-s
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate	SFT-DCMS-SINGLE	Light on physical drive indication LED SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card-s This URI will be deprecated since X14/H14
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Drive.SecureErase	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card-s
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.SecureEraseAbort	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card-s

API List	License	Notes
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.AssignSpare	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.DeleteSpare	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Oem/Supermicro/IndicateActionInfo	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Oem/Supermicro/AssignSpareActionInfo	SFT-DCMS-SINGLE	SAS3108, SAS3408, SAS39xx, SAS38xxIR https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]	Standard	For AOC-S3916L-H16iR https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]	SFT-DCMS-SINGLE	SAS3008, SAS32xx, SAS36xx, SAS38xxIT https://www.supermicro.com/zh-tw/products/storage/card_s

API List	License	Notes
/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate	SFT-DCMS-SINGLE	Light on physical drive indication LED SAS3008, SAS32xx, SAS36xx, SAS38xxIT https://www.supermicro.com/zh_tw/products/storage/cards This URI will be deprecated with X14/H14
/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/IndicateActionInfo	SFT-DCMS-SINGLE	Light on physical drive indication LED SAS3008, SAS32xx, SAS36xx, SAS38xxIT https://www.supermicro.com/zh_tw/products/storage/cards This URI will be deprecated with X14/H14
/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Oem/Supermicro/IndicateActionInfo	SFT-DCMS-SINGLE	Light on physical drive indication LED SAS3008, SAS32xx, SAS36xx, SAS38xxIT https://www.supermicro.com/zh_tw/products/storage/cards

API List	License	Notes
/redfish/v1/Chassis/StorageBackplane	SFT-DCMS-SINGLE	Light on physical drive indication LED SAS3008, SAS32xx, SAS36xx, SAS38xxIT https://www.supermicro.com/zh-tw/products/storage/card_s
/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay.[disk_num]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane	Standard	
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate	SFT-DCMS-SINGLE	Light on physical drive indication LED
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]/Actions/Oem/OemDrive.Insert	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]/Actions/Oem/OemDrive.Eject	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]/Oem/Supermicro/IndicateActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/NVMeSSD.<BPN#>.Group.<CPLD#>.StorageBackplane/Drives/Disk.Bay.<Drive#>/Actions/Drive.SecureErase	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/Sensors	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/Sensors/ControllerTemp	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]	SFT-DCMS-SINGLE	

API List	License	Notes
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/Ports	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/Ports/[num]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/NetworkDeviceFunctions	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/NetworkDeviceFunctions/[NetworkDeviceFunctionId]	SFT-DCMS-SINGLE	
/redfish/v1/Chassis/MRVL.HA-RAID.[controller_num].StorageModule	Standard	For Marvell SE9230
/redfish/v1/Chassis/MRVL.HA-RAID.[controller_num].StorageModule/Drives/Disk.Bay.[disk_num]	SFT-DCMS-SINGLE	For LSI 3108
/redfish/v1/AccountService/Roles	Standard	
/redfish/v1/AccountService/Roles/Administrator	Standard	
/redfish/v1/AccountService/Roles/Operator	Standard	
/redfish/v1/AccountService/Roles/ReadOnly	Standard	
/redfish/v1/AccountService/Accounts	Standard	
/redfish/v1/AccountService/Accounts/[account_num]	Standard	
/redfish/v1/Managers/1	Standard	
/redfish/v1/Managers/1/DedicatedNetworkPorts	Standard	
/redfish/v1/Managers/1/DedicatedNetworkPorts/[num]	Standard	
/redfish/v1/Managers/1/SharedNetworkPorts	Standard	
/redfish/v1/Managers/1/PrivilegeRegistry	Standard	
/redfish/v1/Managers/1/Actions/Manager.Reset	Standard	BMC cold reset
/redfish/v1/Managers/1/Actions/Oem/SmcManagerConfig.Reset	Standard	BMC to factory default
/redfish/v1/Managers/1/Actions/Oem/SupermicroManager.SyncTime	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ResetActionInfo	Standard	
/redfish/v1/Managers/1/SerialInterfaces	SFT-OOB-LIC, SFT-DCMS-SINGLE	

API List	License	Notes
/redfish/v1/Managers/1/SerialInterfaces/[service_num]	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/LogServices	Standard	
/redfish/v1/Managers/1/LogServices/Log1	Standard	
/redfish/v1/Managers/1/LogServices/Log1/Actions/LogService.ClearLog	Standard	
/redfish/v1/Managers/1/LogServices/Log1/Entries	Standard	
/redfish/v1/Managers/1/LogServices/Log1/Entries/[log_num]	Standard	
/redfish/v1/Systems/1/LogServices/Log2	Standard	
/redfish/v1/Systems/1/LogServices/Log2/Entries	Standard	
/redfish/v1/Systems/1/LogServices/Log2/Entries/[log_num]	Standard	
(redfish 1.8 supported VM APIs)	Standard	
/redfish/v1/Managers/1/VirtualMedia	Standard	Supported Mounting Method: HTTP/CIFS/SAMBA
/redfish/v1/Managers/1/VirtualMedia/CD[mounted_dev_num]	Standard	User must mount image first. This URI will be deprecated with X14/H14
redfish/v1/Managers/1/VirtualMedia/CD[mounted_dev_num]/Actions/VirtualMedia.InsertMedia	Standard for Samba, CIFS; SFT-OOB-LIC/SFT-DCMS-SINGLE for HTTP and HTTPS	SFT-OOB-LIC or SFT-DCMS-SINGLE is required for http and https mount. This URI will be deprecated with X14/H14
/redfish/v1/Managers/1/VirtualMedia/CD[mounted_dev_num]/InsertMediaActionInfo	SFT-OOB-LIC, SFT-DCMS-SINGLE	This URI will be deprecated with X14/H14

API List	License	Notes
redfish/v1/Managers/1/VirtualMedia/CD[mounted_dev_num]/Actions/VirtualMedia.EjectMedia	Standard	This URI will be deprecated with X14/H14
/redfish/v1/Managers/1/VirtualMedia/Floppy[mounted_dev_num]	Standard	User must mount image first. This URI will be deprecated with X14/H14
/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]	Standard	User must mount image first. This URI will be deprecated with X14/H14
/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.InsertMedia	Standard for Samba, CIFS; SFT-OOB-LIC/SFT-DCMS-SINGLE for HTTP and HTTPS	Support since Redfish 2020.3 X13/H13 (BMC FW 1.01.xx) X12/H12 (BMC FW 1.03.xx) SFT-OOB-LIC or SFT-DCMS-SINGLE is required for http and https mount
/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/InsertMediaActionInfo	SFT-OOB-LIC, SFT-DCMS-SINGLE	Support since Redfish 2020.3 X13/H13 (BMC FW 1.01.xx) X12/H12 (BMC FW 1.03.xx)
/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.EjectMedia	Standard	Support since Redfish 2020.3 X13/H13 (BMC FW 1.01.xx) X12/H12 (BMC FW 1.03.xx)
/redfish/v1/Managers/1/EthernetInterfaces	Standard	
/redfish/v1/Managers/1/EthernetInterfaces/[eth_num]	Standard	
/redfish/v1/Managers/1/EthernetInterfaces/ToHost	Standard	

API List	License	Notes
/redfish/v1/Managers/1/HostInterfaces	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/HostInterfaces/1	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/HostInterfaces/1/HostEthernetInterfaces	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/NetworkProtocol	Standard	
/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates	SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1	SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions/Certificate.Rekey	SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/RekeyActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/NetworkProtocol/HTTPS/Certificates/1/Actions/Certificate.Renew	SFT-DCMS-SINGLE	
/redfish/v1/Managers/1/Oem/Supermicro/FanMode	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/MemoryPFA	SFT-DCMS-SINGLE	This URI can only be supported on Intel platforms. This feature can be supported on X13 and future platforms.
/redfish/v1/Managers/1/Oem/Supermicro/MemoryHealthComp	SFT-DCMS-SINGLE	This URI can only be supported on Intel platforms. This feature can be supported on X13 and future platforms.

API List	License	Notes
/redfish/v1/Managers/1/Oem/Supermicro/MouseMode	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/Snooping	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/Syslog	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/RADIUS	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/SMCRAKP	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ IPAccessControl	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ IPAccessControl/FilterRules	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ IPAccessControl/FilterRules/[rule_num]	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/NTP	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/LLDP	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/SmartPower	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/iKVM	Standard	iKVM over HTML5 can be supported
/redfish/v1/Managers/1/Oem/Supermicro/KCSInterface	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ SysLockdown	SFT-DCMS-SINGLE for PATCH	
/redfish/v1/Managers/1/LicenseManager	Standard	
/redfish/v1/Managers/1/LicenseManager/ ActivateLicense	Standard	
/redfish/v1/Managers/1/LicenseManager/QueryLicense	Standard	
/redfish/v1/Managers/1/LicenseManager/ClearLicense	Standard	
/redfish/v1/Managers/bmc	Standard	

API List	License	Notes
/redfish/v1/Systems/1	SFT-DCMS-SINGLE for Bootoption/ Boot Next	"BootOrder" property does not support PATCH method since X13/H13 platforms Configuring system boot device order should be via FixedBootOrder (/redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder)
/redfish/v1/Systems/1/Actions/ComputerSystem.Reset	Standard	System reset
/redfish/v1/Systems/1/ResetActionInfo	Standard	
/redfish/v1/Systems/1/Processors	Standard	
/redfish/v1/Systems/1/Processors/[processor_num]	Standard	
/redfish/v1/Systems/1/ProcessorSummary/ ProcessorMetrics	SFT-DCMS-SINGLE	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Systems/1/Memory	Standard	
/redfish/v1/Systems/1/Memory/[memory_num]	Standard	
/redfish/v1/Systems/1/Memory/1/MemoryMetrics	SFT-DCMS-SINGLE	
redfish/v1/Systems/1/MemorySummary/ MemoryMetrics	SFT-DCMS-SINGLE	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Systems/1/EthernetInterfaces	Standard	
/redfish/v1/Systems/1/EthernetInterfaces/[eth_num]	Standard	BIOS-BMC joint feature BIOS FW update might be required
/redfish/v1/Systems/1/EthernetInterfaces/[eth_num]/VLANs	Standard	
/redfish/v1/Systems/1/EthernetInterfaces/[eth_num]/VLANs/[vlan_instance]	Standard	
/redfish/v1/Systems/1/EthernetInterfaces/ToManager	Standard	
/redfish/v1/Systems/1/SimpleStorage	SFT-OOB-LIC, SFT-DCMS-SINGLE	

API List	License	Notes
/redfish/v1/Systems/1/SimpleStorage/[controller_num]	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/Storage	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/Storage/HA-RAID	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Volumes	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.Indicate	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR Light on virtual drive LED indicator
/redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Oem/Supernmicro/IndicateActionInfo	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.Delete	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR To delete a specific drive in logical view.

API List	License	Notes
/redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.CreateVolume	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR Create virtual drives
/redfish/v1/Systems/1/Storage/HA-RAID/Oem/Supermicro/CreateVolumeActionInfo	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.ClearVolumes	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR To clear all configurations in logical view.
/redfish/v1/Systems/1/Storage/HA-RAID/Oem/Supermicro/ClearVolumesActionInfo	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcHARAIIDController.Save	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR Save controller's "BIOS Boot Mode"
/redfish/v1/Systems/1/Storage/HA-RAID/Oem/Supermicro/SaveActionInfo	SFT-DCMS-SINGLE	Storage AOC installation is required. SAS3108, SAS3408, SAS39xx, SAS38xxIR
/redfish/v1/Systems/1/Storage/HBA	SFT-DCMS-SINGLE	Storage AOC installation is required.
/redfish/v1/Systems/1/Storage/HBA/Volumes	SFT-DCMS-SINGLE	Storage AOC installation is required.

API List	License	Notes
/redfish/v1/Systems/1/Storage/RAIDIntegrated	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/RAIDIntegrated/Volumes	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/RAIDIntegrated/Volumes/[volume_num]	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/SATAEmbedded	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/SATAEmbedded/Volumes	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/SATAEmbedded/Volumes/[volume_num]	SFT-DCMS-SINGLE	Storage AOC installation is required; Must have TAS running.
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID	SFT-DCMS-SINGLE	Storage AOC installation is required; For Marvell SE9230
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes	SFT-DCMS-SINGLE	Storage AOC installation is required; For Marvell SE9230
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]	SFT-DCMS-SINGLE	Storage AOC installation is required; For Marvell SE9230
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.DeleteVD	SFT-DCMS-SINGLE	Storage AOC installation is required; For Marvell SE9230. To delete a specific virtual drive in logical view.

API List	License	Notes
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller. [controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.RebuildVD	SFT-DCMS- SINGLE	Storage AOC installation is required; For Marvell SE9230. To rebuild a specific virtual drive in logical view.
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller. [controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.ImportVD	SFT-DCMS- SINGLE	Storage AOC installation is required; For Marvell SE9230. To import a specific virtual drive in logical view.
/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Actions/Oem/SmcStorage.CreateVD	SFT-DCMS- SINGLE	Storage AOC installation is required; For Marvell SE9230. To create virtual drives.
/redfish/v1/Systems/1/Storage/NVMeSSD	SFT-DCMS- SINGLE	Storage AOC installation is required.
/redfish/v1/Systems/1/Storage/IntelVROC	Standard	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Controllers	Standard	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Controllers/[StorageControllerId]	SFT-DCMS- SINGLE with PATCH, POST, DELETE	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Drives/[DriveId]	SFT-DCMS- SINGLE with PATCH	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes	SFT-DCMS- SINGLE with PATCH, POST, DELETE	only supported for Intel platforms

API List	License	Notes
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/Capabilities	SFT-DCMS-SINGLE with PATCH, POST, DELETE	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]	SFT-DCMS-SINGLE with PATCH, POST, DELETE	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Actions/Storage.ResetToDefaults	SFT-DCMS-SINGLE with PATCH, POST, DELETE	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Drives/DriveId/Actions/Drive.SecurityErase	SFT-DCMS-SINGLE with PATCH, POST, DELETE	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.ChangeRAIDLAYOUT	SFT-DCMS-SINGLE with POST	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.CheckConsistency	SFT-DCMS-SINGLE with POST	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.ForceEnable	SFT-DCMS-SINGLE with POST	only supported for Intel platforms
/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.Initialize	SFT-DCMS-SINGLE with POST	only supported for Intel platforms

API List	License	Notes
/redfish/v1/Systems/1/Bios	SFT-DCMS-SINGLE	BIOS current settings.
/redfish/v1/Systems/1/Bios/SD	SFT-DCMS-SINGLE	BIOS pending settings.
/redfish/v1/Systems/1/Bios/Actions/Bios.ResetBios	SFT-DCMS-SINGLE	Reset BIOS settings to default.
/redfish/v1/Systems/1/Bios/Actions/ Bios.ChangePassword	SFT-DCMS-SINGLE	Change BIOS booting password.
/redfish/v1/Systems/1/Bios/ ChangePasswordActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/LogServices	Standard	
/redfish/v1/Systems/1/LogServices/Log1	Standard	
/redfish/v1/Systems/1/LogServices/Log1/Actions/ LogService.ClearLog	Standard	Clear system management logs
/redfish/v1/Systems/1/LogServices/Log1/Actions/Oem/ SmcLogService.ClearAcknowledgements	SFT-DCMS-SINGLE	Clear acknowledgments of system management logs
/redfish/v1/Systems/1/LogServices/Log1/Entries	Standard	
/redfish/v1/Systems/1/LogServices/Log1/Entries/[log_num]	Standard	PATCH method for acknowledgment;
/redfish/v1/Systems/1/SecureBoot	SFT-DCMS-SINGLE	BIOS secureboot settings.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases	SFT-DCMS-SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbt	SFT-DCMS-SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbr	SFT-DCMS-SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbx	SFT-DCMS-SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/PK	SFT-DCMS-SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/KEK	SFT-DCMS-SINGLE	Supported since X13/H13

API List	License	Notes
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/db	SFT-DCMS- SINGLE	Supported since X13/H13
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/db/Certificates	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbt/Certificates	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbr/Certificates	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/PK/Certificates	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.

API List	License	Notes
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/KEK/Certificates	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbx/Signatures	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/PK/Certificates/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/KEK/Certificates/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.

API List	License	Notes
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/db/Certificates/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbr/Certificates/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbt/Certificates/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/ SecureBootDatabases/dbx/Signatures/[num]	SFT-DCMS- SINGLE	BIOS-BMC joint feature BIOS FW update might be required. Redfish URI will be generated as signatures, or certificates, or both. Supported since X13/H13.
/redfish/v1/Systems/1/SecureBoot/Actions/ SecureBoot.ResetKeys	SFT-DCMS- SINGLE	Reset key for secure boot.
/redfish/v1/Systems/1/SecureBoot/ ResetKeysActionInfo	SFT-DCMS- SINGLE	

API List	License	Notes
/redfish/v1/Systems/1/BootOptions	None	
/redfish/v1/Systems/1/BootOptions/num	None	This URI does not support PATCH method, since X13/H13 platforms. To configure system boot, device order should be via FixedBootOrder (/redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder)
/redfish/v1/Systems/1/Oem/Supermicro/FixedBootOrder	SFT-DCMS-SINGLE	Configure system boot device order via this URI. Supported since X13/H13 platforms
/redfish/v1/Systems/1/NetworkInterfaces	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/NetworkInterfaces/[ni_num]	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/NetworkInterfaces/[ni_num]/NetworkPorts	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/NetworkInterfaces/[ni_num]/NetworkDeviceFunctions	SFT-OOB-LIC, SFT-DCMS-SINGLE	
/redfish/v1/Systems/1/Certificates/	Standard	RoT2.0 is required. This URI supported since X13/H13
/redfish/v1/Systems/1/Certificates/[num]	Standard	RoT2.0 is required. This URI supported since X13/H13

API List	License	Notes
/redfish/v1/Systems/1/Certificates/TPMCert	Standard	This URI supported since X13/H13
/redfish/v1/Systems/1/Oem/Supermicro/NodeManager	SFT-OOB-LIC, SFT-DCMS-SINGLE	This Redfish API can only be supported on Intel platforms with Intel ME
/redfish/v1/Systems/1/Oem/Supermicro/NodeManager/Actions/SmcNodeManager.ClearAllPolicies	SFT-OOB-LIC, SFT-DCMS-SINGLE	This Redfish API can only be supported on Intel platforms with Intel ME
/redfish/v1/EventService/Subscriptions	SFT-OOB-LIC, SFT-DCMS-SINGLE for SNMPv3/re dfish	
/redfish/v1/EventService/Subscriptions/[destination_num]	SFT-OOB-LIC, SFT-DCMS-SINGLE for SNMPv3/re dfish	
/redfish/v1/EventService/Actions/EventService.SubmitTestEvent	Standard	
/redfish/v1/EventService/SubmitTestEventActionInfo	Standard	
/redfish/v1/UpdateService/upload	SFT-DCMS-SINGLE (HGX, PSU, Storage AOC, DCPMM DIMM, Network AOC)	Post Body with multipart/form-data for MultipartHttpPushUri
/redfish/v1/UpdateService/FirmwareInventory	Standard	

API List	License	Notes
/redfish/v1/UpdateService/FirmwareInventory/AOM_SCM_[num]_CPLD_[num]	Standard	X14SBHM or other platforms with a similar design
/redfish/v1/UpdateService/FirmwareInventory/BMC	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Backup_BMC	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Golden_BMC	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Staging_BMC	Standard	
/redfish/v1/UpdateService/FirmwareInventory/BIOS	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Backup_BIOS	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Golden_BIOS	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Staging_BIOS	Standard	
/redfish/v1/UpdateService/FirmwareInventory/CPLD_Motherboard	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Golden_CPLD_Motherboard	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Staging_CPLD_Motherboard	Standard	
/redfish/v1/UpdateService/FirmwareInventory/BIOS_ME	Standard	This Redfish API can only be supported on Intel Platform
/redfish/v1/UpdateService/FirmwareInventory/Capsule_ME	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/Staging_Capsule_ME	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/Capsule_BIOS	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/Staging_Capsule_BIOS	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/Capsule_MCU	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/Staging_Capsule_MCU	Standard	This URI can only be supported on Intel Platform since X13

API List	License	Notes
/redfish/v1/UpdateService/FirmwareInventory/ StagingPMem	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/ PowerSupply[power_supply_num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ NIC[aoc_card_num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/NIC_[num]_CPLD[_num]	SFT-DCMS-SINGLE for FW update	AOC-A200G-B2C
/redfish/v1/UpdateService/FirmwareInventory/ PMem[dcpm_num]	Standard	This URI can only be supported on Intel Platform since X13
/redfish/v1/UpdateService/FirmwareInventory/ Broadcom[broadcom_num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ Marvell[marvell_num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ GPU[gpu_num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/HGX_A100	Standard	
/redfish/v1/UpdateService/Actions/ UpdateService.SimpleUpdate	SFT-DCMS-SINGLE	
/redfish/v1/UpdateService/SimpleUpdateActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/UpdateService/Actions/ UpdateService.StartUpdate	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ SupermicroAOC_[num]_Retimer_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ Backplane_[num]_CPLD_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ Backplane_[num]_nonCPL_[num]	Standard	

API List	License	Notes
/redfish/v1/UpdateService/FirmwareInventory/Backplane_<BPN#>_CPLD_<CPLD#>.Drive<Drive#>	Standard	
/redfish/v1/UpdateService/FirmwareInventory/OtherPCB_[num]_FW	Standard	
/redfish/v1/UpdateService/FirmwareInventory/PSU_[num]_FW	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Switchboard_[num]_CPLD_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Fanboard_[num]_CPLD_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/SASExpander[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Motherboard_PCIeSwitch_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/Switchboard_[num]_PCIeSwitch_[num]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/SmartNIC_[num]_NIC_[num]	SFT-DCMS-SINGLE	
/redfish/v1/UpdateService/Actions/Oem/SmcUpdateService.Install	SFT-DCMS-SINGLE for FW Recovery	
/redfish/v1/UpdateService/Oem/Supermicro/InstallActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/UpdateService/Oem/Supermicro/SSLCert	Standard	View current SSL certification information
/redfish/v1/UpdateService/Oem/Supermicro/SSLCert/Actions/SmcSSLCert.Upload	Standard	Upload new SSL certification file
/redfish/v1/UpdateService/Oem/Supermicro/IPMIConfig	Standard	
/redfish/v1/UpdateService/Oem/Supermicro/IPMIConfig/Actions/SmcIPMIConfig.Upload	Standard	Upload new BMC configuration file to set BMC
/redfish/v1/UpdateService/Oem/Supermicro/IPMIConfig/Actions/SmcIPMIConfig.Download	Standard	Download BMC configuration as a file

API List	License	Notes
/redfish/v1/UpdateService/Oem/Supermicro/BMCConfig/Actions/SupermicroBMCConfig.Upload	SFT-DCMS-SINGLE (AMDOOBRAS_Config)	AMDOOBRAS_Config only supports since H14 (AMD CPU)
/redfish/v1/UpdateService/Oem/Supermicro/BMCConfig/Actions/SupermicroBMCConfig.Download	SFT-DCMS-SINGLE (AMDOOBRAS_Config)	AMDOOBRAS_Config only supports since H14 (AMD CPU)
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.EnterUpdateMode	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Upload	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Update	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/UpdateActionInfo	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Cancel	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS	SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13

API List	License	Notes
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/BIOS/Actions/ SmcFirmwareInventory.EnterUpdateMode	SFT-DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/BIOS/Actions/ SmcFirmwareInventory.Upload	SFT-DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/BIOS/Actions/ SmcFirmwareInventory.Update	SFT-DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/BIOS/UpdateActionInfo	SFT-DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/BIOS/Actions/ SmcFirmwareInventory.Cancel	SFT-DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/HARAIIDController.[controller_num]	SFT-DCMS- SINGLE	Once the HARAIID upgrade has completed successfully. please reset the system. Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/Oem/Supermicro/ FirmwareInventory/MRVL_HARAIIDController.[controller_num]	SFT-DCMS- SINGLE	Once the HARAIID upgrade has completed successfully. please reset the system. Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Registries/Base	Standard	
/redfish/v1/Registries/BiosAttributeRegistry	Standard	
/redfish/v1/Registries/Event	Standard	
/redfish/v1/Registries/SMC	Standard	
/redfish/v1/JsonSchemas/[variety_of_services]	Standard	
/redfish/v1/TaskService/Tasks	Standard	
/redfish/v1/TaskService/Tasks/[task_num]	Standard	

API List	License	Notes
/redfish/v1/TaskMonitor/[task_num]	Standard	
/redfish/v1/CertificateService/CertificateLocations/	SFT-DCMS-SINGLE	
/redfish/v1/CertificateService/Actions/ CertificateService.GenerateCSR	SFT-DCMS-SINGLE	
/redfish/v1/CertificateService/GenerateCSRActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/CertificateService/Actions/ CertificateService.ReplaceCertificate	SFT-DCMS-SINGLE	
/redfish/v1/CertificateService/ ReplaceCertificateActionInfo	SFT-DCMS-SINGLE	
/redfish/v1/Oem/Supermicro/DumpService/Dumps	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Actions/ OemDumpService.Collect	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/ CreateDumpActionInfo	Standard	ROT is required. This URI can only be supported on Intel platforms.
/redfish/v1/Oem/Supermicro/DumpService/Actions/ SmcDumpService.CreateDump	SFT-DCMS-SINGLE	ROT is required. This URI can only be supported on Intel platforms.
/redfish/v1/Oem/Supermicro/DumpService/Actions/ SmcDumpService.DeleteAll	SFT-DCMS-SINGLE	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ HostCrashDump	SFT-DCMS-SINGLE	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ HostCrashDump/Actions/SmcDump.Download	SFT-DCMS-SINGLE	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BMCEvidenceDump	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BMCEvidenceDump/Actions/ SmcBMCEvidenceDump.Download	Standard	ROT is required.

API List	License	Notes
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BMCEvidenceDump/Actions/ SmcBMCEvidenceDump.Generate	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BIOSEvidenceDump	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BIOSEvidenceDump/Actions/ SmcBIOSEvidenceDump.Download	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ BIOSEvidenceDump/Actions/ SmcBIOSEvidenceDump.Generate	Standard	ROT is required.
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ AttestationDump/	Standard	ROT2.0 is required and supported since X13/H13
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ AttestationDump/Actions/ SmcAttestationDump.Download	Standard	ROT2.0 is required and supported since X13/H13
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ AttestationDump/Actions/ SmcAttestationDump.Generate	Standard	ROT2.0 is required and supported since X13/H13
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ AttestationDump/Actions/SmcAttestationDump.Delete	Standard	ROT2.0 is required and supported since X13/H13
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ DriveSmartDump/	Standard	
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ DriveSmartDump/Actions/ SmcDriveSmartDump.Download	Standard	
/redfish/v1/Oem/Supermicro/DumpService/Dumps/ DriveSmartDump/Actions/ SmcDriveSmartDump.Generate	Standard	
/redfish/v1/TelemetryService/MetricDefinitions	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/ AvgPowerConsumedHour	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/BroadcomCriticalEvent	SFT-DCMS-SINGLE	

API List	License	Notes
/redfish/v1/TelemetryService/MetricDefinitions/BroadcomFatalEvent	SFT-DCMS-SINGLE	
/redfish/v1/TelemetryService/MetricDefinitions/BroadcomWarningEvent	SFT-DCMS-SINGLE	
/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedHour	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedHour	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/AvgPowerConsumedDay	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedDay	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedDay	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/AvgPowerConsumedWeek	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/MinPowerConsumedWeek	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/MaxPowerConsumedWeek	Standard	
/redfish/v1/TelemetryService/MetricDefinitions/[MetricDefinitionId]	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyHigh	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyLow	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyAverage	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_HostCpuUtilization	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_HostMemoryBandwidthUtilization	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms

API List	License	Notes
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ HostPciBandwidthUtilization	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ CupsIndex	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ AverageHostPciBandwidthUtilization	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ AverageHostMemoryBandwidthUtilization	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ AverageHostCpuUtilization	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricDefinitions/CUPS_ AverageCupsIndex	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricReportDefinitions	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ AvgPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/Broadco mEvent	SFT- DCMS- SINGLE	
/redfish/v1/TelemetryService/MetricReportDefinitions/ MinPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ MaxPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ AvgPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ MinPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ MaxPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ AvgPowerConsumptionWeek	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ MinPowerConsumptionWeek	Standard	

API List	License	Notes
/redfish/v1/TelemetryService/MetricReportDefinitions/ MaxPowerConsumptionWeek	Standard	
/redfish/v1/TelemetryService/MetricReportDefinitions/ [MetricReportDefinitionId]	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricReportDefinitions/CPUMe mMetrics	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricReportDefinitions/CUPSM etrics	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricReports	Standard	
/redfish/v1/TelemetryService/MetricReports/ AvgPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReports/ MinPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReports/ MaxPowerConsumptionHour	Standard	
/redfish/v1/TelemetryService/MetricReports/ AvgPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReports/ MinPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReports/ MaxPowerConsumptionDay	Standard	
/redfish/v1/TelemetryService/MetricReports/ AvgPowerConsumptionWeek	Standard	
/redfish/v1/TelemetryService/MetricReports/ MinPowerConsumptionWeek	Standard	
/redfish/v1/TelemetryService/MetricReports/ MaxPowerConsumptionWeek	Standard	
/redfish/v1/TelemetryService/MetricReports/[MetricReportId]	SFT-DCMS- SINGLE	Supported after X14, only supported for Intel platforms

API List	License	Notes
/redfish/v1/TelemetryService/MetricReports/CPUMemMetrics	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/TelemetryService/MetricReports/CUPSMetrics	SFT-DCMS-SINGLE	Supported after X14, only supported for Intel platforms
/redfish/v1/Systems/1/Storage/SASExpander[num]/Controllers/[num]	Standard	
/redfish/v1/Systems/1/Storage/VROC	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Actions/Oem/SmcVROC.CreateVolume	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Oem/Supernova/CreateVolumeActionInfo	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Actions/Oem/SmcVROC.VolumeDelete	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Oem/Supernova/VolumeDeleteActionInfo	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Actions/Oem/SmcVROC.DriveMarkSpare	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Actions/Oem/SmcVROC.DriveUnmarkSpare	SFT-OOB-LIC, SFT-DCMS-SINGLE	Supported on X12/H12. Deprecated since X13/H13

API List	License	Notes
/redfish/v1/Systems/1/Storage/VROC/Oem/ Supermicro/DriveMakerSpareActionInfo	SFT-OOB- LIC, SFT- DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Oem/ Supermicro/DriveUnmarkSpareActionInfo	SFT-OOB- LIC, SFT- DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Volumes	SFT-OOB- LIC, SFT- DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/Systems/1/Storage/VROC/Volumes/ [volume_num]	SFT-OOB- LIC, SFT- DCMS- SINGLE	Supported on X12/H12. Deprecated since X13/H13
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_GPU_SXM_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_ERoT_GPU_SXM_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_NVSwitch_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_ERoT_NVSwitch_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_PCleSwitch_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_ERoT_PCleSwitch_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_PCleRetimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_BMC_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_ERoT_BMC_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_FPGA_[num]	SFT-DCMS- SINGLE	

API List	License	Notes
/redfish/v1/UpdateService/FirmwareInventory/ HGX_FW_ERoT_FPGA_[num]	SFT-DCMS- SINGLE	
/redfish/v1/Chassis/1/NetworkAdapters/ [NetworkAdapterId]/Certificates/[CertificateId]	SFT-DCMS- SINGLE	
/redfish/v1/Systems/1/Storage/[StorageId]/ Controllers/[StorageControllerId]/Certificates/ [CertificateId]	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/SecurityPolicy	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/SecurityPolicy/SPDM/ TrustedCertificates	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/SecurityPolicy/SPDM/ RevokedCertificates	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/SecurityPolicy/SPDM/ TrustedCertificates/[CertificateId]	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/SecurityPolicy/SPDM/ RevokedCertificates/[CertificateId]	SFT-DCMS- SINGLE	
/redfish/v1/ComponentIntegrity	SFT-DCMS- SINGLE	
/redfish/v1/ComponentIntegrity/[ComponentIntegrityId]	SFT-DCMS- SINGLE	
/redfish/v1/ComponentIntegrity/{ComponentIntegrityId}/Actions/ ComponentIntegrity.SPDMGetSignedMeasurements	SFT-DCMS- SINGLE	
/redfish/v1/ComponentIntegrity/TPM_{VendorID}_{handle}	Standard	Supported after X14/H14
/redfish/v1/UpdateService/FirmwareInventory/ OnBoard_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/OnBoardNVMe_ [string]	Standard	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_CPLD_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_CPLD_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_AMC_[num]	SFT-DCMS- SINGLE	

API List	License	Notes
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_AMC_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ OnBoard_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_CPLD_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_CPLD_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_AMC_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_AMC_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ UBB_[num]_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/UpdateService/FirmwareInventory/ Staging_UBB_[num]_Retimer_[num]	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Actions/NodeManager.Reset	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Domains	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Domains/[DomainName]	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Domains/[DomainName]/Actions/Domain.ResetStatistics	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Policies	SFT-DCMS- SINGLE	SFT-DCMS-SINGLE only for POST and DELETE
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Policies/[PolicyID]	Standard	

API List	License	Notes
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Policies/[PolicyID]/Actions/Policy.ResetStatistics	SFT-DCMS- SINGLE	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Triggers	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/Triggers/[TriggerId]	Standard	
/redfish/v1/Managers/1/Oem/Supermicro/ NodeManager/ThrottlingStatus	Standard	
/redfish/v1/ThermalEquipment	Standard	
/redfish/v1/ThermalEquipment/CDU	Standard	
/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]	Standard	
/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]/LeakDetection	Standard	
/redfish/v1/ThermalEquipment/CDU/ [CoolingUnitId]/LeakDetection/LeakDetectors	Standard	
/redfish/v1/ThermalEquipment/CDU/ [CoolingUnitId]/LeakDetection/LeakDetectors/[LeakDetectorId]	Standard	
/redfish/v1/Systems/1/Actions/Oem/ OemSystemExtensions.Reset	SFT-DCMS- SINGLE	For Lego project

APIs URL Changes

Redfish 1.21.0 to Redfish 1.21.1

Added

/redfish/v1/Chassis/1/Drives/[string]

/redfish/v1/Chassis/1/LeakDetectors/[LeakDetectorId]

/redfish/v1/Chassis/NVMeSSD.<BPN#>.Group.<CPLD#>.StorageBackplane/Drives/Disk.Bay
.<Drive#>/Actions/Drive.SecureErase

/redfish/v1/Chassis/SmartNIC_[num]

/redfish/v1/Chassis/SmartNIC_[num]/Sensors

/redfish/v1/Chassis/SmartNIC_[num]/Sensors/ControllerTemp

/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter

/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]

/redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/Ports
 /redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/Ports/[num]
 /redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/NetworkDeviceFunctions
 /redfish/v1/Chassis/SmartNIC_[num]/NetworkAdapter/[NetworkAdapterId]/NetworkDeviceFunctions/[NetworkDeviceFunctionId]
 /redfish/v1/Managers/1/Actions/Oem/SupermicroManager.SyncTime
 /redfish/v1/Systems/1/LogServices/Log2
 /redfish/v1/Systems/1/LogServices/Log2/Entries
 /redfish/v1/Systems/1/LogServices/Log2/Entries/[log_num]
 /redfish/v1/Systems/1/Certificates/TPMCert
 /redfish/v1/UpdateService/FirmwareInventory/NIC_[num]_CPLD[num]
 /redfish/v1/UpdateService/FirmwareInventory/Backplane_<BPN#>_CPLD_<CPLD#>.Drive<Drive#>
 /redfish/v1/UpdateService/FirmwareInventory/Motherboard_PClSwitch_[num]
 /redfish/v1/UpdateService/FirmwareInventory/Switchboard_[num]_PClSwitch_[num]
 /redfish/v1/UpdateService/FirmwareInventory/SmartNIC_[num]_NIC_[num]
 /redfish/v1/UpdateService/Oem/Supermicro/BMCCConfig/Actions/SupermicroBMCCConfig.Upload
 /redfish/v1/UpdateService/Oem/Supermicro/BMCCConfig/Actions/SupermicroBMCCConfig.Download
 /redfish/v1/UpdateService/FirmwareInventory/OnBoardNVMe_[string]
 /redfish/v1/AccountService/Actions/Oem/SupermicroAccountService.Diagnostic
 /redfish/v1/AccountService/Actions/Oem/SupermicroTwoFAToken.Generate
 /redfish/v1/LicenseService/Actions/LicenseService.Install
 /redfish/v1/Managers/1/LicenseManager
 /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ActivateLicense
 /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ClearLicense
 /redfish/v1/Managers/1/LicenseManager/QueryLicense
 /redfish/v1/Systems/1/Certificates/TPMCert

/redfish/v1/Systems/1/LogServices/Log2
 /redfish/v1/Systems/1/LogServices/Log2/Entries
 /redfish/v1/Systems/1/LogServices/Log2/Entries/[log_num]
 /redfish/v1/Systems/1/Storage/IntelVROC
 /redfish/v1/Systems/1/Storage/IntelVROC/Actions/Storage.ResetToDefaults
 /redfish/v1/Systems/1/Storage/IntelVROC/Controllers
 /redfish/v1/Systems/1/Storage/IntelVROC/Controllers/[StorageControllerId]
 /redfish/v1/Systems/1/Storage/IntelVROC/Drives/[DriveId]
 /redfish/v1/Systems/1/Storage/IntelVROC/Drives/DriveId/Actions/Drive.SecureErase
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/
 [VolumeId]/Actions/Volume.ChangeRAIDLAYOUT
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/
 [VolumeId]/Actions/Volume.CheckConsistency
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.ForceEnable
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.Initialize
 /redfish/v1/Systems/1/Storage/IntelVROC/Volumes/Capabilities

Removed

/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors/[LeakDetectorId]

Redfish 1.14 to Redfish 1.21.0

Added

/redfish/v1/Chassis/1/Assembly
 /redfish/v1/Chassis/AOM_SCM
 /redfish/v1/Chassis/AOM_SCM/Assembly
 /redfish/v1/UpdateService/FirmwareInventory/AOM_SCM_[num]_CPLD_[num]
 /redfish/v1/Oem/Supermicro/DumpService/CollectActionInfo
 /redfish/v1/Oem/Supermicro/DumpService/AttestationCollectActionInfo
 /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.AttestationCollect

/redfish/v1/Systems/system/LogServices/Crashdump

/redfish/v1/Systems/system/LogServices/Crashdump/Actions/Oem/Crashdump.SendRawPeci

/redfish/v1/Systems/system/LogServices/Crashdump/Actions/LogService.ClearLog

/redfish/v1/Systems/system/LogServices/Crashdump/Actions/Oem/Crashdump.OnDemand

/redfish/v1/Systems/system/LogServices/Crashdump/Actions/Oem/Crashdump.Telemetry

/redfish/v1/Systems/system/LogServices/Crashdump/Entries

/redfish/v1/Systems/system/LogServices/Crashdump/Entries/OnDemand

/redfish/v1/Systems/system/LogServices/Crashdump/Entries/Telemetry

/redfish/v1/Chassis/1/NetworkAdapters/[NetworkAdapterId]/Certificates

/redfish/v1/Systems/1/Storage/[StorageId]/Controllers/[StorageControllerId]/Certificates

/redfish/v1/Systems/1/Storage/IntelVROC

/redfish/v1/Systems/1/Storage/IntelVROC/Controllers

/redfish/v1/Systems/1/Storage/IntelVROC/Controllers/[StorageControllerId]

/redfish/v1/Systems/1/Storage/IntelVROC/Drives/[DriveId]

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/Capabilities

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]

/redfish/v1/Systems/1/Storage/IntelVROC/Actions/Storage.ResetToDefaults

/redfish/v1/Systems/1/Storage/IntelVROC/Drives/DriveId/Actions/Drive.SecureErase

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/
[VolumeId]/Actions/Volume.ChangeRAIDLayout

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/
[VolumeId]/Actions/Volume.CheckConsistency

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.ForceEnable

/redfish/v1/Systems/1/Storage/IntelVROC/Volumes/[VolumeId]/Actions/Volume.Initialize

/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection

/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors

/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors/[LeakDetectorId]

/redfish/v1/TelemetryService/MetricReportDefinitions/CPUMemMetrics

/redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyHigh

/redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyLow
 /redfish/v1/TelemetryService/MetricDefinitions/CPUC0ResidencyAverage
 /redfish/v1/TelemetryService/MetricReports/CPUMemMetrics
 /redfish/v1/ComponentIntegrity/TPM_{VendorID}_{handle}
 /redfish/v1/TelemetryService/MetricReportDefinitions/CUPSMetrics
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_HostCpuUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_HostMemoryBandwidthUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_HostPciBandwidthUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_CupsIndex
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_AverageHostPciBandwidthUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_AverageHostMemoryBandwidthUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_AverageHostCpuUtilization
 /redfish/v1/TelemetryService/MetricDefinitions/CUPS_AverageCupsIndex
 /redfish/v1/TelemetryService/MetricReports/CUPSMetrics
 /redfish/v1/Chassis/1/Controls/CPU_PowerLimit

Removed

/redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Oem/Supermicro/IndicateActionInfo
 /redfish/v1/Managers/1/LicenseManager
 /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ActivateLicense
 /redfish/v1/Managers/1/LicenseManager/QueryLicense
 /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ClearLicense
 /redfish/v1/Oem/Supermicro/DumpService/CreateDumpActionInfo
 /redfish/v1/Managers/1/SecurityPolicy/SPDM/RevokedCertificates/[CertificateId]
 /redfish/v1/Managers/1/SecurityPolicy/SPDM/RevokedCertificates/[CertificateId]
 /redfish/v1/Managers/1/SecurityPolicy/SPDM/RevokedCertificates
 /redfish/v1/UpdateService/FirmwareInventory/OnBoard_Retimer_[num]
 /redfish/v1/ThermalEquipment
 /redfish/v1/ThermalEquipment/CDU

/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]

/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]/LeakDetection

/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]/LeakDetection/LeakDetectors

/redfish/v1/ThermalEquipment/CDU/[CoolingUnitId]/LeakDetection/LeakDetectors/
[LeakDetectorId]

Redfish 1.11 to Redfish 1.14

RF 1.11 -> /redfish/v1/UpdateService/FirmwareInventory/Golden_CPLD_Motherboard

RF 1.14 -> /redfish/v1/UpdateService/FirmwareInventory/Golden_Motherboard_CPLD_num

RF 1.11 -> /redfish/v1/Managers/1/LicenseManager/ActivateLicense

RF 1.14 -> /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ActivateLicense

RF 1.11 -> /redfish/v1/Managers/1/LicenseManager/ClearLicense

RF 1.14 -> /redfish/v1/Managers/1/LicenseManager/Actions/LicenseManager.ClearLicense

RF 1.11 -> /redfish/v1/UpdateService/FirmwareInventory/CPLD_Motherboard_num

RF 1.14 -> /redfish/v1/UpdateService/FirmwareInventory/Motherboard_CPLD_num

RF 1.11 -> /redfish/v1/Oem/Supermicro/DumpService/Actions/SmcDumpService.CreateDump

RF 1.14 -> /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

RF 1.11 -> /redfish/v1/Oem/Supermicro/DumpService/Actions/SmcDumpService.DeleteAll

RF 1.14 -> /redfish/v1/Oem/Supermicro/DumpService/Actions/OemDumpService.Collect

Privilege Changes since RF1.14.0-00.01

- Storage POST/PATCH Privilege change from ConfigureManager to ConfigureComponent since X14/H14 (ASPEED 2600, 2700 of X14/H14)
 - /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]
 - /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate (Per task, deprecate since X14)
 - /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Drive.SecureErase

- /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.SecureEraseAbort
- /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.AssignSpare
- /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.DeleteSpare
- /redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate (Per task, deprecate since X14)
- /redfish/v1/Chassis/HBA.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]
- /redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.Indicate
- /redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.Delete
- /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.CreateVolume
- /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SupermicroDrive.DeleteJBOD
- /redfish/v1/Chassis/HA-RAID.[controller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[disk_num]/Actions/Oem/SupermicroDrive.AssignJBOD
- /redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]/Actions/Oem/SmcDrive.Indicate (Per task, deprecate since X14)
- /redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].StorageBackplane/Drives/Disk.Bay.[disk_num]
- /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcStorage.ClearVolumes
- /redfish/v1/Systems/1/Storage/HA-RAID/Actions/Oem/SmcHARAIDController.Save
- /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.DeleteVD
- /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.RebuildVD
- /redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/SmcVolume.ImportVD

- `/redfish/v1/Systems/1/Storage/MRVL.HA-RAID/Actions/Oem/SmcStorage.CreateVD`
- Change PATCH privilege from `ConfigureComponents` to `ConfigureManager`
 - `/redfish/v1/Managers/1/Oem/Supermicro/IPAccessControl`
- `/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]`
 - the two APIs below will always display
 - `/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.InsertMedia`
 - `/redfish/v1/Managers/1/VirtualMedia/VirtualMedia[mounted_dev_num]/Actions/VirtualMedia.EjectMedia`
- If not supported, the return code will be 400

Deprecated APIs

The following APIs will be deprecated in Redfish X14/H14

`/redfish/v1/Oem/Supermicro/DumpService/Dumps/DriveSmartDump/Actions/SmcDriveSmartDump.Download`

`/redfish/v1/Oem/Supermicro/DumpService/Dumps/DriveSmartDump/Actions/SmcDriveSmartDump.Generate`

`/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors/`

`/redfish/v1/Chassis/1/ThermalSubsystem/LeakDetection/LeakDetectors/[LeakDetectorId]`

The following APIs will be deprecated in Redfish v1.14:

`/redfish/v1/Systems/1/SimpleStorage`

`/redfish/v1/Systems/1/SimpleStorage/1`

`/redfish/v1/Systems/1/Storage/NVMeSSD/StorageControllers`

For below APIs, `/redfish/v1/UpdateService/Oem/Supermicro/XXXX` is deprecated since X12/H12, Redfish v1.14 or X13/H13, Redfish v1.11.

Please use `/redfish/v1/UpdateService/upload` API.

`/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Cancel`

`/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS/Actions/SmcFirmwareInventory.EnterUpdateMode`

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Update

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Upload

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS/UpdateActionInfo

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BIOS

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Cancel

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.EnterUpdateMode

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Update

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/Actions/SmcFirmwareInventory.Upload

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC/UpdateActionInfo

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory/BMC

/redfish/v1/UpdateService/Oem/Supermicro/FirmwareInventory

Reference Links

Supermicro Redfish:

<https://www.supermicro.com/solutions/Redfish.cfm>

Supermicro on YouTube:

<https://www.youtube.com/SupermicroSoftware>

DMTF Redfish:

<http://www.dmtf.org/standards/redfish>

<http://redfish.dmtf.org/>

Mockups:

<http://redfish.dmtf.org/redfish/v1>

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