



Management Plug-in for SCOM

User's Guide

Revision 2.1.0

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Manual Revision: 2.1.0
Release Date: September 6, 2024

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Revision History

Date	Rev	Description
2020/12/30	2.0.0	<ol style="list-style-type: none">1. Initial release for SCOM-Plugin 2.02. This release contains following new features Monitoring Functions:<ul style="list-style-type: none">- Asset Info- Sensor Reading- Health Event Log- Maintenance Event LogManagement Functions:<ul style="list-style-type: none">- BMC Cold Reset- UID LED Control- Chassis Intrusion Reset/Status- Fan Mode Control
2024/09/06	2.1.0	<ol style="list-style-type: none">1. Add support 14 generation platform2. Add assertion and deassertion to the description of Health Event Log3. Rename the FRU tab to Detail and update the content

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1 Overview

Data centers use Microsoft SCOM as a single point of system management. The Management Plug-in for SCOM integrates with the current SCOM interface, providing extended capability of SCOM to monitor and manage Supermicro servers.

1.1 New Features

- Managing Supermicro Servers X10 DP platforms and later, with calling Redfish APIs through the plug-in on SCOM directly and operating independently from SSM.
- Monitoring and managing through the plug-in on the Operation Manager console:
 - Monitoring:
 - Asset Info
 - Sensor Reading
 - Health Event Log
 - Maintenance Event Log
 - Management:
 - BMC Cold Reset
 - UID LED Control
 - Chassis Intrusion Reset/Status
 - Fan Mode Control
- Reviewing the hardware information of the managed Supermicro servers through the plug-in's Dashboard View on the Operation Manager console.
- Configuring BMC settings through the link of BMC Web.
- Running the plug-in on the below Microsoft SCOM server:
 - SCOM 2019/2022
- Retrieving events in the Maintenance Event Log, when:
 - accessing the BMC currently in the account locked out mode.
 - accessing the BMC currently enabled system lockdown mode. In addition, retrieving events of system lockdown in the Maintenance Event Log is allowed when the function is enabled and disabled.

1.2 Components

The Management Plug-in for SCOM includes the following components:

- **Supermicro Redfish Connector Service**
 - A backend Windows service for Supermicro Redfish Management Pack to communicate with Supermicro Servers.
- **Supermicro Redfish Management Pack**
 - The extended capability of SCOM to monitor/manage Supermicro Servers

2 Prerequisites and Installation

2.1 Hardware Requirements

- Processor (minimal): 4-Core 2.66 GHz CPU
- Memory (minimal): 16GB
- Disk space (minimal): 20GB

2.2 Software Requirements

- Microsoft System Center Operation Manager 2019/2022

2.3 Installing Management Plug-in for SCOM

1. This software must be installed on a Management Server (MS) in SCOM resource pool.
2. Log in the managed server as the administrator.
3. Run **Supermicro_SCOM_Management_Plug-in_<VER>_build.<BUILD>_Installer.exe** with the administrator privilege to start the installation.
4. Click the **Browse** button to select the destination folder, and then click the **Install** button to continue.

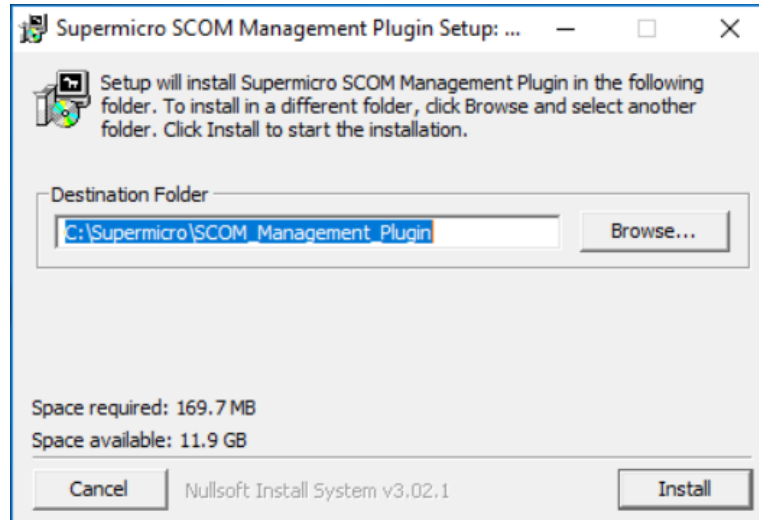


Figure 2- 1

5. After the installation is completed, click the **Close** button to finish.
6. Open Windows Services Manager, and check if Supermicro Redfish Connector is running.

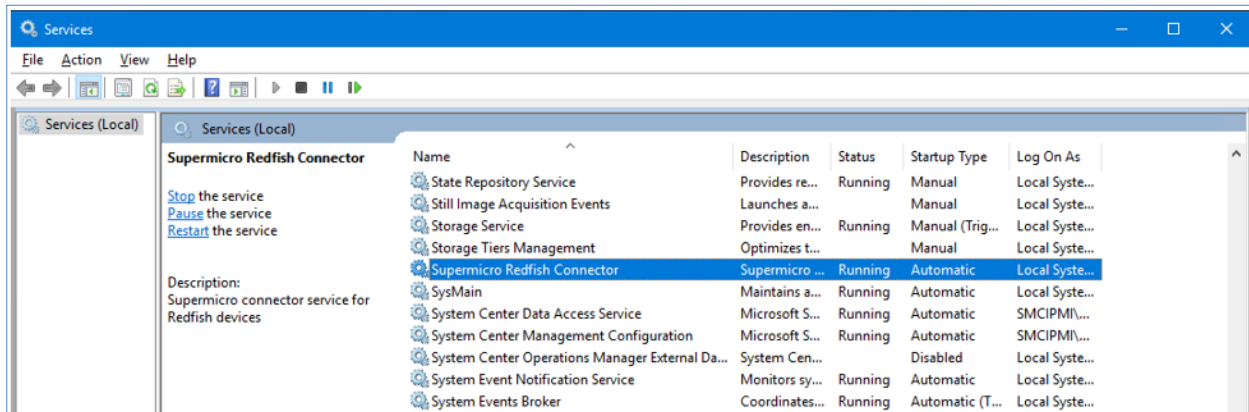


Figure 2- 2

2.4 Installing Supernicro Redfish Management Pack

The installer does not automatically import management packs into SCOM, and the management packs are available at **installation-folder\MPs**. Follow these steps to start the installation.

1. Find the management pack file **Supernicro_SCOM_REDFISH_ManagementPack_<VERSION>.mpb** and import it into SCOM Management Packs.

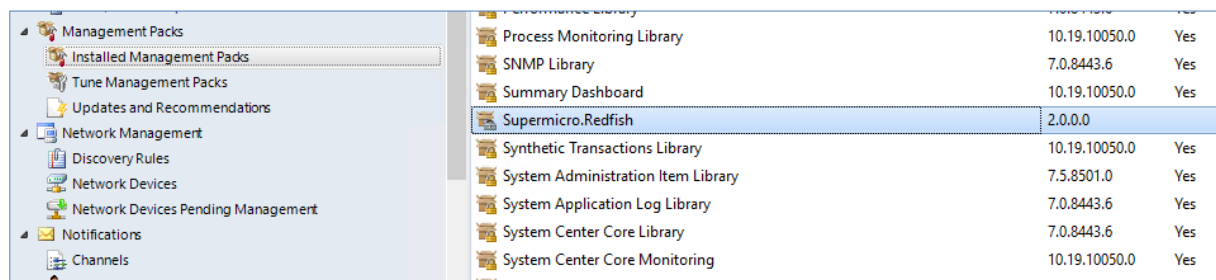


Figure 2- 3

2. You will find the Asset Management program under the Supernicro Plug-in folder in **Monitoring** dashboard.

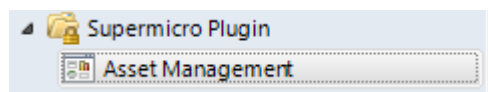


Figure 2- 4

3 Supermicro Redfish Connector Service

Supermicro Redfish Connector is windows-based service, providing backend service for [Supermicro Redfish Management Pack](#) to communicate with BMC of Supermicro Servers via Redfish API.

You can find the Supermicro Redfish Connector service in Windows Services Manager.

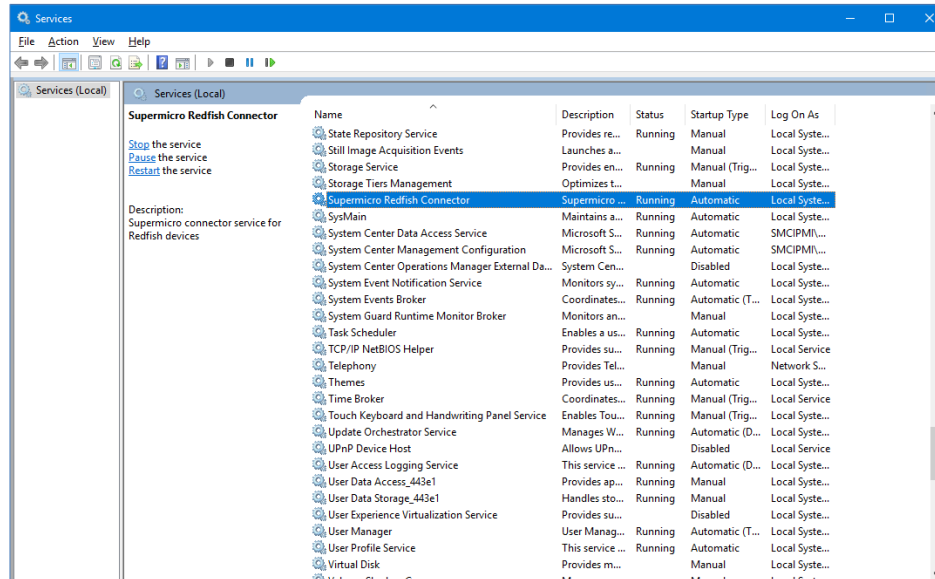


Figure 3- 1

3.1 Supermicro Redfish Connector Architecture

The figure shows how the Supermicro Redfish Connector service interacts with the related components.

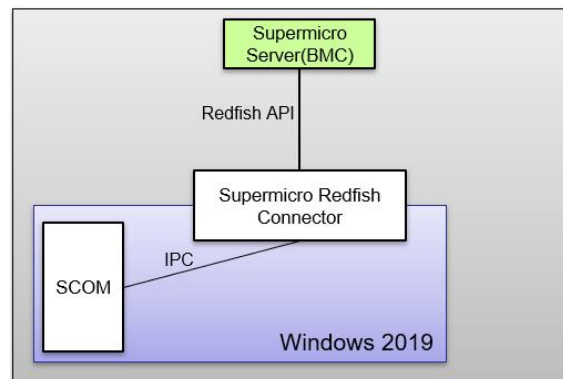


Figure 3- 2

3.2 Using Supermicro Redfish Connector

In order to communicate with BMC of Supermicro Servers, BMC credentials are needed for logging to Supermicro Servers. The credentials are stored in the Windows Credential Manager of the account (Local System by default). You can change the default logon user by following steps:



Note: Please keep your login account secure. The elevated user will be able to access Windows Credential Manager.

1. Open Windows Services Manager.
2. Select **Supermicro Redfish Connector**, right-click it and select **Properties**.
3. Select the **Log On** tab.
4. Select **This account**, input the account and password, and then click **Apply**.
5. Close the Operation Manager console
6. Restart the Supermicro Redfish Connector in order for the new setting to take effect.

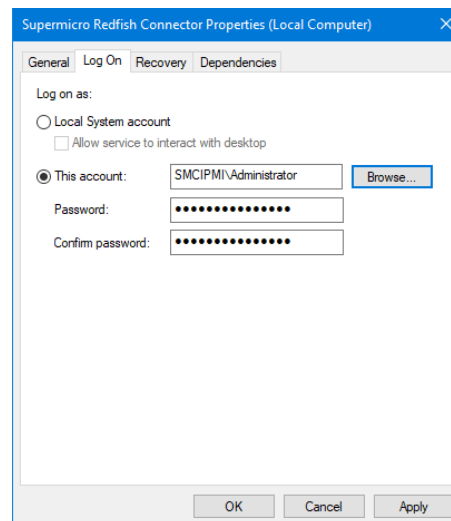


Figure 3- 3

4 Using Management Plug-in

4.1 First-Time Use

The Asset Management Dashboard is a WPF user control and in Html format. Because of the enhanced security of Internet Explorer in Windows Server, a warning dialog box may appear when you access the Management Plug-in for the first time.

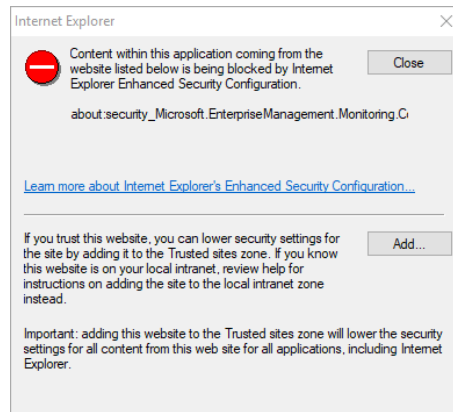


Figure 4- 1

Click the **Add** button to add it to the trusted zone and restart the Operation Manager console.

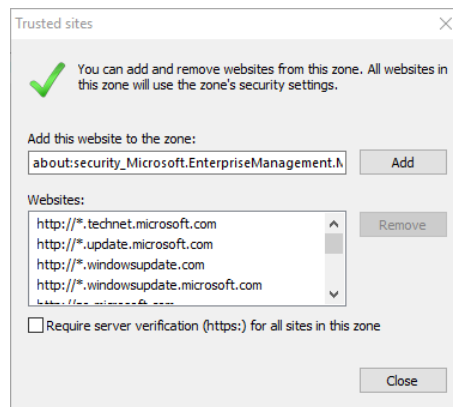


Figure 4- 2

4.2 Accessing Asset Management Dashboard

In Asset Management, select the **Supermicro Plug-in** folder in the navigation pane and click **Asset Management**.

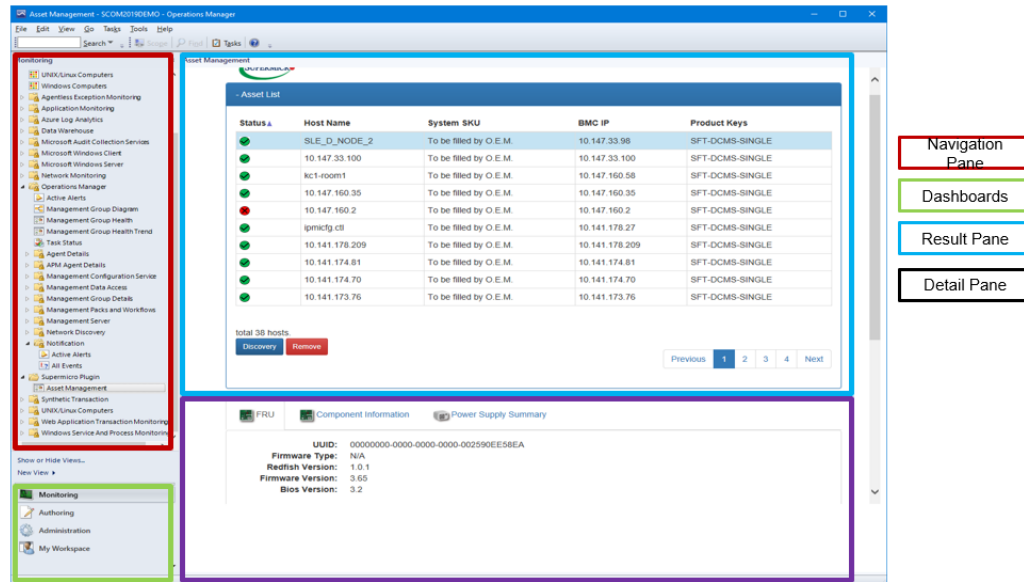


Figure 4- 3

- **Status:** Shows the status and health of this system.

Icon	Description
	Busy, Deep, Cold Reset
	System Absent
	System Health OK
	System Health Warning
	System Health Critical

- **Host Name:** Shows the DNS host name without any domain information of the BMC.
- **System SKU:** Shows the manufacturer SKU for this system.
- **BMC IP:** Shows the BMC IP address of this system.
- **Product Keys:** Displays currently activated licenses on this system.



Note: The Asset List is empty for the first-time use, and you need to add some systems to build your list. For more information, please refer to [Create a Credential](#) and [Adding a System to the Asset List](#).

4.3 Creating a Credential

A credential is required to login BMC for monitor/manage. It will be added to Windows Credential Manager. To create a credential, follow these steps.

1. Click the **Discovery** button in the Result pane (Figure 4-3), and click **Credential Management**.

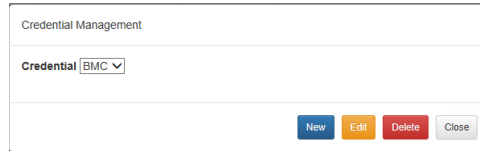
A dialog box titled "Credential Management". It contains a dropdown menu labeled "Credential" with "BMC" selected. At the bottom right, there are four buttons: "New" (blue), "Edit" (orange), "Delete" (red), and "Close" (grey).

Figure 4- 4

2. Click **New**, enter the necessary information, and then click **Add**.

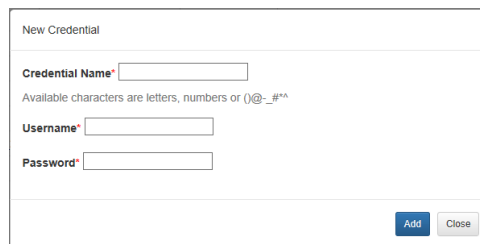
A dialog box titled "New Credential". It contains three input fields: "Credential Name*", "Username*", and "Password*". Below the "Credential Name" field, there is a note: "Available characters are letters, numbers or ()@_#*^". At the bottom right, there are two buttons: "Add" (blue) and "Close" (grey).

Figure 4- 5

4.4 Adding a System to the Asset List

Two methods are available for you to add a system to the Asset List.

4.4.1 Single Search

Use Single search to search for a specific IP address of a Supermicro Server. Follow these steps.

1. Click the **Discovery** button in the Result pane (Figure 4-3), and click **Single Search**. A dialog box appears.

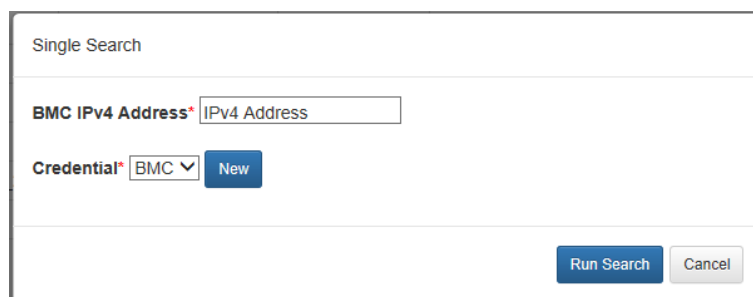
A dialog box titled "Single Search". It contains two input fields: "BMC IPv4 Address*" and "Credential*". The "BMC IPv4 Address*" field has "IPv4 Address" entered. The "Credential*" field has "BMC" selected in the dropdown. To the right of the "Credential*" dropdown is a "New" button. At the bottom right, there are two buttons: "Run Search" (blue) and "Cancel" (grey).

Figure 4- 6

2. Enter the IP address, and use the Credential drop-down list to select a credential. Note that you can add a new credential here by clicking the **New** button.
3. Click **Run Search**. The result then shows up on the Search Result page.

4.4.2 Range Search

Use Range search to search for the Supermicro Servers within a certain range of IP addresses. Follow these steps.

1. Click the **Discovery** button in the Result pane (Figure 4-3), and click **Range Search**. A dialog box appears.

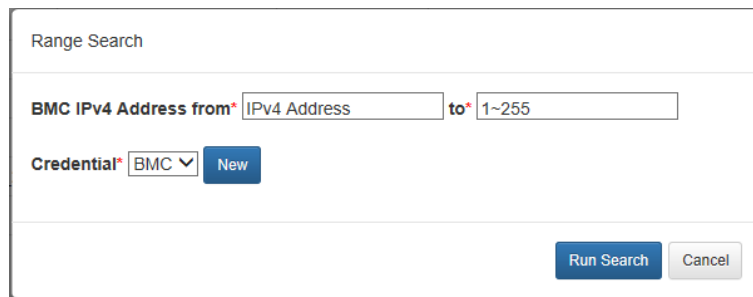
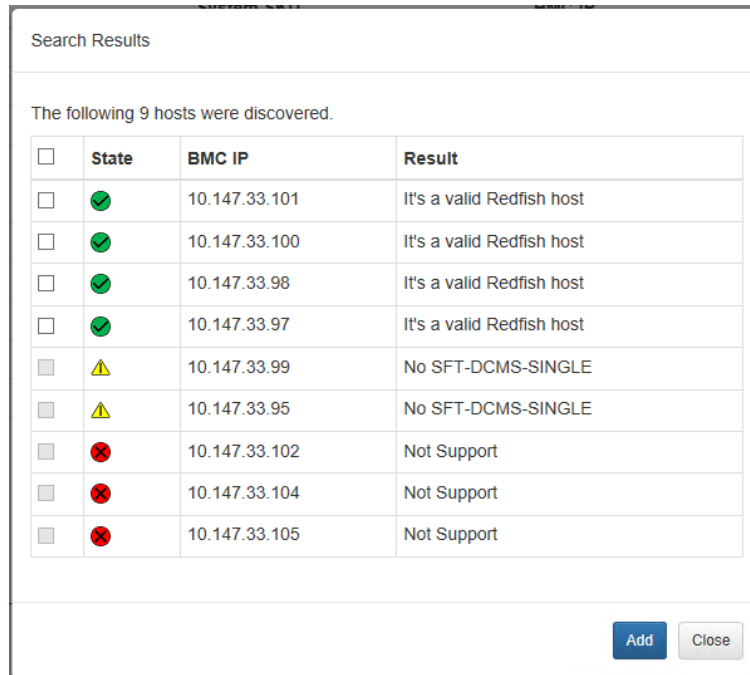
A screenshot of a 'Range Search' dialog box. The title bar says 'Range Search'. Inside, there are two input fields: 'BMC IPv4 Address from*' with the placeholder text 'IPv4 Address' and 'to*' with the placeholder text '1~255'. Below these is a 'Credential*' dropdown menu showing 'BMC' with a downward arrow, and a blue 'New' button next to it. At the bottom right, there are two buttons: 'Run Search' (blue) and 'Cancel' (grey).

Figure 4- 7

2. Enter the IP addresses within your desired range, and use the Credential drop-down list to select a credential. Note that you can add a new credential here by clicking the **New** button.
3. Click **Run Search**. The result then shows up on the Search Result page.

4.4.3 Viewing Search Results

The Search Result page displays the searching progress and status. The search results will be kept until the next search is performed or the Supermicro Redfish Connector service is restarted. Only the valid system with a green State icon can be added to the asset list.



The following 9 hosts were discovered.

<input type="checkbox"/>	State	BMC IP	Result
<input type="checkbox"/>	✓	10.147.33.101	It's a valid Redfish host
<input type="checkbox"/>	✓	10.147.33.100	It's a valid Redfish host
<input type="checkbox"/>	✓	10.147.33.98	It's a valid Redfish host
<input type="checkbox"/>	✓	10.147.33.97	It's a valid Redfish host
<input type="checkbox"/>	⚠	10.147.33.99	No SFT-DCMS-SINGLE
<input type="checkbox"/>	⚠	10.147.33.95	No SFT-DCMS-SINGLE
<input type="checkbox"/>	✗	10.147.33.102	Not Support
<input type="checkbox"/>	✗	10.147.33.104	Not Support
<input type="checkbox"/>	✗	10.147.33.105	Not Support

Figure 4- 8

4.5 Viewing the Details of the System

Click on any of the system in asset list table to view more information. Six types of information are listed by tab at the bottom: FRU, Component Information, Power Supply Summary, Sensor, Health Event Log and Maintenance Log. Click each tab to view the details.

4.5.1 Detail

Use this tab to view the detail information of the selected system.

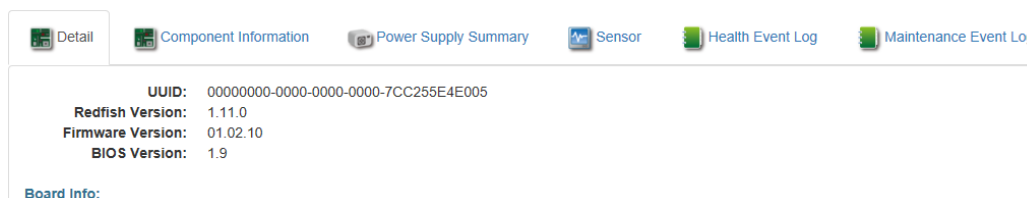


Figure 4- 9

4.5.2 Component Information

Use this tab to view the details about CPU and memory modules of the selected system.

4.5.2.1 CPU

- CPU					
Name	Model	Speed	Core	Threads	Manufacturer
Processor	Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz	4500	16	32	Intel(R) Corporation

Figure 4- 10

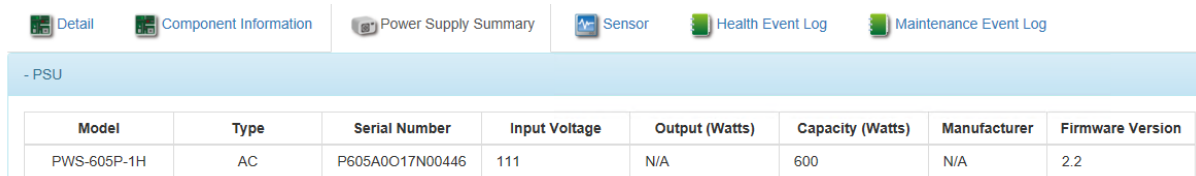
4.5.2.2 Memory

- Memory							
Name	Device Type	Error Correction	Operating Speed	Size	Serial Number	Part Number	Manufacturer
Memory	Logical non-volatile device	SingleBitECC	2133	129408	00000283	NMA1XBD128GQS	Intel
Memory	DDR4	SingleBitECC	2133	16384	4029B1C4	M393A2G40DB0-CPB	Samsung
Memory	DDR4	SingleBitECC	2133	16384	4029B571	M393A2G40DB0-CPB	Samsung
Memory	Logical non-volatile device	SingleBitECC	2133	129408	0000027C	NMA1XBD128GQS	Intel

Figure 4- 11

4.5.3 Power Supply Summary

Use this tab to view the information of the power supply unit of the selected system.



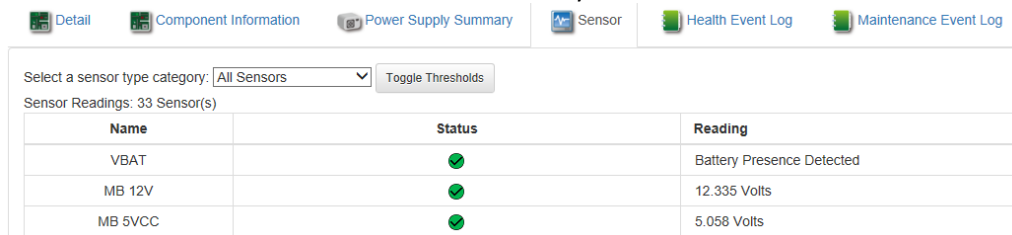
The screenshot shows the 'Power Supply Summary' tab selected among others like 'Detail', 'Component Information', 'Sensor', 'Health Event Log', and 'Maintenance Event Log'. Below the tabs is a header '- PSU' and a table with the following data:

Model	Type	Serial Number	Input Voltage	Output (Watts)	Capacity (Watts)	Manufacturer	Firmware Version
PWS-605P-1H	AC	P605A0O17N00446	111	N/A	600	N/A	2.2

Figure 4- 12

4.5.4 Sensor

This tab provides the sensor information of the selected system.







The screenshot shows the 'Sensor' tab selected. It includes a dropdown menu for 'Select a sensor type category' set to 'All Sensors' and a 'Toggle Thresholds' button. Below is a table with sensor readings:

Name	Status	Reading
VBAT	✓	Battery Presence Detected
MB 12V	✓	12.335 Volts
MB 5VCC	✓	5.058 Volts

Figure 4- 13

- **Name:** The name of the monitored item.
- **Status:** The status of the sensor item.

Icon	Description
	Sensor Absent
	Sensor Status OK
	Sensor Status Warning
	Sensor Status Critical

- **Reading:** The readings of the sensor.

4.5.4.1 Accessing the Additional Information

Click the **Toggle Thresholds** button to access the additional information:

- **Low NR (Low Non-Recoverable):** This is the low threshold for a non-recoverable item. Any item with a reading below this point will not be recovered.
- **Low CT (Low Critical-Threshold):** This is the low threshold for a critical item. Any item with a reading below this threshold is in a critical state.
- **High CT (High Critical-Threshold):** This is the high threshold for a critical item. Any item with a reading above this threshold is in a critical state.

- **High NR (High Non-Recoverable):** This is the high threshold for a non-recoverable item. Any item with a reading above this point will not be recovered.

4.5.5 Health Event Log

This tab provides a record of events occurred on the managed system for you to diagnose or detect any potential issues.

Detail	Component Information	Power Supply Summary	Sensor	Health Event Log	Maintenance Event Log
--------	-----------------------	----------------------	--------	------------------	-----------------------

Health Event Log: 4 (event entries)				
EID	Severity	Time Stamp	Sensor Type	Description
1		2024/08/21 09:03:07	OEM	[LAN-0005] Dedicated LAN Link Up - Assertion
2		2024/08/21 09:03:17	OEM	[ROT-0015] Security State of I2C Lockout changed to Unlock - Assertion
3		2024/08/21 09:03:18	OEM	[ROT-0016] Security State of BMC Console Lockout changed to Unlock - Assertion
4		2024/08/21 09:03:19	OEM	[ROT-0019] Security State of RoT State changed to Disable - Assertion

Figure 4- 14

- **EID:** The event ID of this event.
- **Severity:** The severity level of this event.

Icon	Description
	Event Log Severity OK
	Event Log Severity Warning
	Event Log Severity Critical
N/A	No specific severity information is available.

- **Time Stamp:** The time when the event takes place.
- **Sensor Type:** The type of the event.
- **Description:** A brief description of the event.

4.5.6 Maintenance Log

This page displays the record of maintenance events such as administrative events. Event log table shows below details about each log entries.

Detail	Component Information	Power Supply Summary	Sensor	Health Event Log	Maintenance Event Log
--------	-----------------------	----------------------	--------	------------------	-----------------------

Maintenance Event Log: 14 (event entries)						
No	Severity	Time	Interface	User	IP Address	Description
1		2024/08/21 09:03:10	RMCP	ADMIN	10.181.99.53	[MEL-0232] IPMI configuration was restored to default successfully and set user defaults to
2		2024/08/21 09:58:28	Redfish	ADMIN	172.31.2.106	[MEL-0115] SNMPv3 Authentication Protocol was configured to HMAC_MD5 successfully.
3		2024/08/21 09:58:28	Redfish	ADMIN	172.31.2.106	[MEL-0116] SNMPv3 Encryption Protocol was configured to CBC_DES successfully.
4		2024/08/21 09:58:28	Redfish	ADMIN	172.31.2.106	[MEL-0113] SNMPv3 was configured to enabled successfully.
5		2024/08/21 09:58:28	Redfish	ADMIN	172.31.2.106	[MEL-0143] SNMP port was configured to enabled successfully.
6		2024/08/21 09:58:29	Redfish	ADMIN	172.31.2.106	[MEL-0000] Local user ID 3 atfyfish was added successfully.
7		2024/08/21 09:58:29	Redfish	ADMIN	172.31.2.106	[MEL-0003] Local user atfyfish's password was configured successfully.

Figure 4- 15

- **No:** Index of the event log.
- **Severity:** Indicates severity of the events.

Icon	Description
	Event Log Severity OK
	Event Log Severity Warning
	Event Log Severity Critical
N/A	No specific severity information is available.

- **Time:** Time stamp of the event occurrence.
- **Interface:** Interface that triggered the event (e.g., RMCP, Redfish, Web).
- **User:** Name of the user that triggered the event.
- **IP Address:** Source that triggered the event.
- **Description:** Basic description of the event.

4.6 Management Functions

Right-clicking the desired item in the Asset List to select one of the management functions.

Status	Host Name	SKU	BMC IP	Product Keys
✓	test	filled by O.E.M.	10.147.160.2	SFT-DCMS-SINGLE
✗	10.147.160.32 intrusion	filled by O.E.M.	10.147.160.32	SFT-DCMS-SINGLE
✓	10.147.160.35	filled by O.E.M.	10.147.160.35	SFT-DCMS-SINGLE
✓	kc1-room1	filled by O.E.M.	10.147.160.58	SFT-DCMS-SINGLE
✗	456	filled by O.E.M.	10.147.160.59	SFT-DCMS-SINGLE
✓	10.147.160.68	091715D9	10.147.160.68	SFT-DCMS-SINGLE
✗	10.147.33.94		10.147.33.94	SFT-DCMS-SINGLE
✗	SLE_D_NODE_1		10.147.33.97	SFT-DCMS-SINGLE
✓	SLE_D_NODE_2	To be filled by O.E.M.	10.147.33.98	SFT-DCMS-SINGLE
✓	10.147.33.100	To be filled by O.E.M.	10.147.33.100	SFT-DCMS-SINGLE

Figure 4- 16

4.6.1 BMC Cold Reset

Use this function to reset the selected BMC device. The status icon will change, and it takes a few minutes to re-sync the system status.

Status	Host Name▼	System SKU	BMC IP	Product Keys
⌂	SMC-0123456789	To be filled by O.E.M.	10.147.33.107	SFT-DCMS-SINGLE

Figure 4- 17

4.6.2 UID Locate

You can turn the UID on or off to assist in identifying the desired system. To turn the UID on or off, right-click the desired system, select **UID Locate**, and then select **On** or **Off** to suit your need.

Status	Host Name	SKU	BMC IP	Product Keys
✓	test	On	10.147.160.2	SFT-DCMS-SINGLE
✗	10.147.160.32 intrusion	Off	10.147.160.32	SFT-DCMS-SINGLE
✓	10.147.160.35	filled by O.E.M.	10.147.160.35	SFT-DCMS-SINGLE
✓	kc1-room1	filled by O.E.M.	10.147.160.58	SFT-DCMS-SINGLE
✗	456	filled by O.E.M.	10.147.160.59	SFT-DCMS-SINGLE
✓	10.147.160.68	091715D9	10.147.160.68	SFT-DCMS-SINGLE
✗	10.147.33.94		10.147.33.94	SFT-DCMS-SINGLE
✗	SLE_D_NODE_1		10.147.33.97	SFT-DCMS-SINGLE
✓	SLE_D_NODE_2	To be filled by O.E.M.	10.147.33.98	SFT-DCMS-SINGLE
✓	10.147.33.100	To be filled by O.E.M.	10.147.33.100	SFT-DCMS-SINGLE

Figure 4- 18

If the UID is turned on, an UID badge appears next to the selected system in the Asset List.

Status	Host Name ▼	System SKU	BMC IP	Product Keys
✗	SMC-0123456789	To be filled by O.E.M.	10.147.33.107	SFT-DCMS-SINGLE
✓	SLE_D_NODE_2 UID	To be filled by O.E.M.	10.147.33.98	SFT-DCMS-SINGLE

Figure 4- 19

4.6.3 Chassis Intrusion Reset

When chassis is intruded, an intrusion badge appears next to the related system in the Asset List. You can use this function to reset the chassis intrusion alarm after you clear it out.

Status	Host Name	System SKU	BMC IP ▲	Product Keys
✗	10.141.171.169 intrusion	To be filled by O.E.M.	10.141.171.169	SFT-DCMS-SINGLE

Figure 4- 20

4.6.4 Fan Mode

Use this function to control fan speed of the desired system. Note that the available options may vary depending on the selected system. The current fan speed mode is displayed highlight color in the Fan Mode submenu.

Status	Host Name	SKU	BMC IP	Product Keys
✓	test	illed by O.E.M.	10.147.160.2	SFT-DCMS-SINGLE
✗	10.147.160.32 intrusion	illed by O.E.M.	10.147.160.32	SFT-DCMS-SINGLE
✓	10.147.160.35	FullSpeed	10.147.160.35	SFT-DCMS-SINGLE
✓	kc1-room1	Optimal	10.147.160.58	SFT-DCMS-SINGLE
✗	456	PUE2	10.147.160.59	SFT-DCMS-SINGLE
✓	10.147.160.68	HeavyIO	10.147.160.68	SFT-DCMS-SINGLE
✗	10.147.33.94		10.147.33.94	SFT-DCMS-SINGLE
✗	SLE_D_NODE_1		10.147.33.97	SFT-DCMS-SINGLE
✓	SLE_D_NODE_2	To be filled by O.E.M.	10.147.33.98	SFT-DCMS-SINGLE
✓	10.147.33.100	To be filled by O.E.M.	10.147.33.100	SFT-DCMS-SINGLE

Figure 4- 21

4.6.5 Deep

Use this function to rescan the Redfish API resources and actions of the selected system. The API resources are used by Supermicro Redfish Connector service to monitor and manage the Supermicro Servers. By default, every monitored system will do deep function one time. After then, you may need to manually run deep function again if there're any hardware components change.

4.6.6 Launch BMC Web

To configure the BMC settings, use this function to open a new Internet Explorer browser and navigate the BMC web console. Because of the enhanced security of Internet Explorer in Windows Server, you

need to add it to the trusted zone, and then restart the Operation Manager console for the changes to take effect.

Appendix A. Third-Party Software

The following open source libraries are used in Management Plug-in for SCOM package

Library	License
jQuery 3.5.1	MIT
Bootstrap 3.4.1	MIT
Credential Management 1.0.2	Apache-2.0

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