

Management Plugin for SCOM/SCCM

User's Guide

Revision 1.1.0

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Software Revision History

Date	Rev	Description		
2017/02/24	1.1.0	 Added the function of deleting hosts from SSM. Added the function of discovering hosts (AgentManaged, IPMI and Agentless) for SSM. Added task to display System Information. Added the rule of collecting Power Consumption Trend. Adopted the customized dashboard component for improved UI display. Added the new management pack to extend SCOM's capabilities to discovering IPMI devices. Added IPMI group diagram in Operations Manager Console Added the function of collecting the version information from IPMI devices. Added the function of collecting the ACPI status from IPMI devices. Added the function of collecting the FRU information from IPMI devices. Added the function of collecting the FRU information from IPMI devices. Added the function of collecting the FRU information from IPMI devices. Added the function of collecting the FRU information from IPMI devices. Added the function of collecting the FRU information from IPMI devices. Added the function of collecting the Fan mode information from IPMI devices. Added the function of monitoring the health state of IPMI devices. Added the function of monitoring health state for sensors on IPMI devices. Added the BMC reset function for IPMI devices. Added the power control (On/Off/Reset/Soft Shutdown) functions for IPMI devices. 		
2017/07/22	1.0.0	Initial version.		

Document Revision History

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1 Overview

Data Centers use Microsoft SCOM as a single point of system management. The management plugin for SCOM/SCCM integrates with the current SCOM interface, providing extended capability of SCOM to collect information from SSM and management functions.

1.1 Features

Using SCOM, you should see the Supermicro server hosts and the following information:

- Inventory
 - Host List
 - Services List
- Health
 - o Monitor Host Status
 - Monitor Service Status
- IPMI ping info
 - o Host View (Status Information)
- License info
 - Service View (Status Information)
- Performance
 - o System Utilization
- Power management
 - o pminfo (Power supply monitor)
- Asset info
- KVM/IPMI WebUI
- Firmware management
 - o BIOS FW update and configuration
 - BMC FW update and configuration
- LDAP/AD
 - LDAP/AD support for SSM
- Mount/unmount ISO images

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1.2 Components

The management plugin for SCOM/SCCM include the following components:

• Supermicro Management Packs

- Supermicro.Core : Core Management Pack
- Supermicro.SSM: Management Pack for Supermicro Server Manager(SSM)
- Supermicro.IPMI: Management Pack for Supermicro IPMI Devices

• Supermicro Connector Services

- Supermicro SSM Connector: Windows service for SCOM to integrate Supermicro Server Manager(SSM)
- Supermicro IPMI Connector: Windows service for SCOM to integrate Supermicro IPMI devices

• Supermicro SMCIPMITool

• A utility for user to interface with SuperBlade systems and IPMI devices

2 Prerequisites and Installation

2.1 Supported Operating System

Windows Server 2012 R2

2.2 System Requirements

- Windows Server 2012 R2 (Roles and Features are added)
 - Server Roles: (required items listed in Table 2-1)

ltem	Sub Items		
Application Server	.Net Framework 4.5		
Web Server (IIS)	Web Server	Common HTTP Features	Default Document
			Directory Browsing
			HTTP Errors
			Static Content
		Health and Diagnostics	HTTP Logging
			Request Monitor
		Performance	Static Content Compression
		Security	Request Filtering
			Windows Authentication
		Application Development	.Net Extensibility 3.5
			.Net Extensibility 4.5
			ASP.NET 3.5
			ASP.NET 4.5
			ISAPI Extensions
			ISAPI Filters
	Management Tools	IIS Management Console	
		IIS 6 Management Compatibility	IIS 6 Metabase Compatibility

Table 2-1

• Features: (required items listed in Table 2-2)

Item		Sub Items
.NET Framework 3.5	.NET Framework 3.5	
Features		
.NET Framework 4.5	.NET Framework 4.5	
Features	ASP .NET 4.5	
	WCF Service	HTTP Activation
Windows Process	Process Model	
Activation Service	Configuration APIs	

Table 2-2

• SQL Server 2012 SP1 (required items listed in Table 2-3)

Item	Sub Items		
Instance Features	Database Engine Services SQL Server Replication		
		Full-Text and Semantic Extractions for Search	
	Analysis Services		
	Reporting Services		
Shared Features	Management Tools	Management Tools	

Table 2-3

System Center 2012 R2 Operations Manager

2.3 Installing Management Plugin for SCOM

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



Figure 2-1

5. When the installation is complete, click **Close** to finish.



Figure 2-2

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2.4 Starting Operations Manager Console

The management plugin for SCOM/SCCM is integrated in Operations Manager Console. The extended features and monitoring services will start automatically after installation and configuration. For details on configurations, see <u>Chapter 4 Discovering</u>. To start the Operations Manager Console, follow the steps below. (If you do not log in via remote desktop, please skip steps 1 and 2.)

- 1. Connect to the SCOM host via Remote Desktop. (For example: mstsc /v:10.136.176.153:3389)
- 2. Log in with Username & Password.

	Windows Security
Enter your These credent	credentials ials will be used to connect to 10.136.176.153.
P	SMCIPMI\administrator
	Use another account
	Connect a smart card
Rem	ember my credentials
	OK Cancel

Figure 2-3

3. Click **Operations Console** in the Start menu.



Figure 2-4

After that, you shall see the Operations Manager Console as following figure. Please also refer to
 <u>Appendix A</u> for working areas layout.

File Edit View Go Tasks Too	Is Help	0		
Monitoring <				
Gupermicro Gupermicro Management Software Saft Status GipMi	Mon Mon	nitoring Overview		^
📰 IPMI Device View	🚺 F	Required Configuration	n Tasks:	Actions:
Active Alerts Active Alerts Host View Service View SSM Group Diagram	ii r ⇒ R ⇒ R	n order for Operations Manager to m network you must complete the follow Required : Import management pack Required: Enable Notification Chann	anage and monitor your ving steps: s e ls	View all Active Alerts View Computer State View Distributed Application State View Management Group Health
 SSM View Synthetic Transaction 	⇒ L	Jpgrade to full version		Key Concepts:
K III K K K K K K K K K K K K K K K K K				The Monitoring Workspace Standard Views Health Explorer
Monitoring	Stat	te and Alerts:		Properties of Alerts, Rules, and Moni Monitoring Scenarios
Authoring	📩 (😵 c	Computer Health: Critical:	Go to Computers 1	Monitoring Scenarios
Reporting		Marning: Healthy:	0 4	Learn About: Finding Data and Objects in the Ope
🌼 👿 🔻	<	Maintenance Modé:	0	
Ready				

Figure 2-5

3 Using Supermicro Connector Services

Supermicro connector services are Windows services that will collect information from Supermicro's software system or hardware products. It will also run as client software to communicate with SCOM server by Operations Manager Connector Framework (OMCF).

The management plugin for SCOM/SCCM includes the following connector services:

- **Supermicro SSM Connector**: Collects information from Supermicro Server Manager (SSM) and communicate with SCOM server.
- **Supermicro IPMI Connector**: Collects information from Supermicro IPMI Devices and communicates with SCOM server.

		Services					
File Action View Help							
> 🔿 🔲 🗐 🖸 🗐 📦	■ II IÞ						
Services (Local) Services (Lo	ocal)						
Supermicro IPMI C	onnector	Name 📩	Description	Status	Startup Type	Log On As	
·		🔍 SNMP Trap	Receives trap m		Manual	Local Service	
Stop the service		🔍 Software Protection	Enables the do		Automatic (D	Network S	
Pause the service		🔍 Special Administration Console	Allows administ		Manual	Local Syste	
Restart the service		🔍 Spot Verifier	Verifies potenti		Manual (Trig	Local Syste	
		🔍 SQL Full-text Filter Daemon Lau	Service to launc	Running	Manual	NT Service	
Description:		🔍 SQL Server (MSSQLSERVER)	Provides storag	Running	Automatic	Local Syste	
Supermicro connec	tor service for	SQL Server Agent (MSSQLSERVER)	Executes jobs,	Running	Automatic	Local Syste	
IPIVII devices		🔍 SQL Server Browser	Provides SQL Se	-	Disabled	Local Service	
		SQL Server Reporting Services (Manages, execu	Running	Automatic	SMCIPMI\	
		🔍 SQL Server VSS Writer	Provides the int	Running	Automatic	Local Syste	
		🔍 SSDP Discovery	Discovers netw	-	Disabled	Local Service	
		🔍 Storage Tiers Management	Optimizes the p		Manual	Local Syste	
		Stunnel SSL wrapper	TLS offloading	Running	Automatic	Local Syste	
		Superfetch	Maintains and i		Manual	Local Syste	
		🔍 Supermicro IPMI Connector	Supermicro con	Running	Automatic	Local Syste	
		🔍 Supermicro SSM Connector	Supermicro con	Running	Automatic	Local Syste	
		🧠 System Center Data Access Servi	Microsoft Syste	Running	Automatic	Local Syste	
		🔍 System Center Management Co	Microsoft Syste	Running	Automatic	Local Syste	
		System Event Notification Service	Monitors syste	Running	Automatic	Local Syste	
		System Events Broker	Coordinates exe	Running	Automatic (T	Local Syste	
		🔍 Task Scheduler	Enables a user t	Running	Automatic	Local Syste	
		🔍 TCP/IP NetBIOS Helper	Provides suppo	Running	Automatic (T	Local Service	
Į		A Teleskan				Manager C.	

You can find these connector services in Windows Services Manager.



The connector service running status can be controlled and monitored in Operations Manager Console. Please refer to <u>5.2.1.2 Management Software View</u> and <u>Supermicro Core MP\Tasks</u> in <u>5.2.2 Tasks</u>.

3.1 Supermicro SSM Connector

The Supermicro SSM Connector is for SCOM to communicate with SSM. It will collect information of hosts/services from SSM by using SSM REST API.

3.1.1 Supermicro Server Manager (SSM)

SSM (Supermicro Server Manager) is a server management system designed for optimizing the management of servers designed by Super Micro Computer, Inc. ("Supermicro").

Supermicro SSM Connector supports SSM Server version 2.2.0 build 679 or later.

3.1.2 SSM Monitored Hosts

SSM Server can monitor the following types of **host**.

Monitored Host Type	Description
AgentManaged Hosts	Computers installed with SuperDoctor 5
Agentless Hosts	Computers or devices without SuperDoctor 5 installed
Agentless Hosts	Computers or devices with IPMI capability
	T-11-2-4

Table 3-1

Note: The SuperDoctor 5 is a service that runs on the monitored hosts to provide local system health information.

3.1.3 SSM Monitored Services

SSM Server can monitor the following built-in **services**.

Monitored Host Type	Built-in Services
AgentManaged Hosts	Agent and its plug-ins versions,
	Built-in Sensor Health,
	Execute a script,
	Memory Health,
	Storage Health,
	System Information,
	Check HTTP,
	Check FTP,
	Check SMTP
Agentless Hosts	Check HTTP,
	Check FTP,
	Check SMTP
Agentiess liests	IDMI Sensor Licelth
Agentiess Hosts	IPMI Sensor Realth,
	IPINI Power Consumption,
	IPMI SEL Health,
	Check SUM Support,
	IPMI System Information

Table 3-2

3.1.4 SSM Connector Architecture

The following figure shows how the Supermicro SSM Connector interacts with related components.





3.1.5 Using SSM Connector

SSM connector will collect information from SSM Servers discovered by Operations Manager Console. To configure the SSM Servers list please refer to <u>4.1 Discovering SSM Servers</u>.

The collecting repeats every 120 seconds (default). You can change the interval setting by editing the configuration file at <Installation Folder>\SSCS.ini. Adjust the key value of SSMInterval to a proper value between 120 and 3600 seconds.

[Config] IPMIInterval = 120 SSMInterval = 120

3.2 Supermicro IPMI Connector

The Supermicro IPMI Connector is for SCOM to communicate with Supermicro's IPMI devices. It will utilize <u>SMCIPMITool</u> (see <u>1.2 Components</u>) to collect health state, sensor status or board information from IPMI devices.

3.2.1 Intelligent Platform Management Interface

IPMI (Intelligent Platform Management Interface) is a standard to allow a user to interface with a computer system to monitor the health of and manage the system.

3.2.2 SMCIPMITool

The SMCIPMITool is a Supermicro utility that allows a user to interface with SuperBlade systems and IPMI devices via a CLI (Command Line Interface).

3.2.3 IPMI Connector Architecture

The following figure shows how the Supermicro IPMI Connector interacts with related components.



Figure 3-3

3.2.4 Using IPMI Connector

IPMI connector will collect information from IPMI devices which are discovered by Operations Manager Console. To configure the IPMI devices list please refer to <u>4.2 Discovering IPMI Devices</u>.

The collecting repeats every 120 seconds by default. You can change the interval setting by editing the configuration file at <Installation Folder>\SSCS.ini. Adjust the key value of IPMIInterval to be between 120 and 3600 seconds.

[Config] IPMIInterval = 120 SSMInterval = 120

4 Discovering

Follow the steps in this chapter to configure the discovering settings.

- Discovering SSM Servers
- Discovering IPMI Devices

Please also refer to <u>Appendix A</u> for the layout of working areas.

4.1 Discovering SSM Servers

Follow these steps to discover the existing SSM server and add it into monitoring list.

1. <u>Start Operations Manager Console</u>, and click the <u>Monitoring</u> dashboard.



Figure 4-1

2. In Navigation Pane, select **Supermicro\Management Software**.

File Edit View Go Tasks To	ile Edit View Go Tasks Tools Help							
Search 👻 👙 🖡	🛛 Scope 🔎 Find 🔃 Tasks 🕡 🖕							
Monitoring <	Management Software (2)	 Tasks 						
🔺 🙀 Supermicro 📃 🔺	Q Look for: Find Now Clear							
III Management Software Task Status	State Display Name O IPMI Devices O SSM Servers O Hosts(SSM) O IPMI Hosts(SSM) O Hosts(SSM) O Hosts(SSM) O Hosts(SSM) O	State Actions						
a 🙀 IPMI	Healthy IPMI Connector	🛒 Start Maintenance M						
📳 IPMI Device View	⊘ Healthy SSM Connector	📲 Edit Maintenance Mo						
🔁 IPMI Group Diagram		😼 Stop Maintenance M						
a 🕼 SSM		Personalize view						
Active Alerts		E						
Service View		Supermicro NT Service Software						
SSM Group Diagram		Tasks						
SSM View		Discovering IPMI Dev						
Synthetic Transaction	Detail View	Restart Service						
< 111 >		Start Service						
Show or Hide Views	🔷 properties of IPMI Connector	Stop Service						
New View 🕨	Display Name IPMI Connector	-						
	Full Path Name IPMI Connector	Report Tasks 🔨						
Monitoring		📔 Agent Counts by Dat						
Authoring		📔 Alert Logging Latenc						
- Reporting		Alerts						
inchorning		📮 Availability						
🌼 🔣 🔻		Configuration Chang						
Ready								

Figure 4-2

3. In Result Pane, select **SSM Connector**, and then click **Discovering SSM Servers** from Tasks Pane.

File Edit View Go Tasks To	ols Help	
Search 👻 📮	🖟 Scope 👂 Find 😰 Tasks 🔞 🝦	
Monitoring <	 Tasks 	
🔺 🚰 Supermicro 📃 🔺	🔍 Look for: Find Now Clear	2
🗰 Management Software	State Display Name O IPMI Devices O SSM O Hosts(SSM) O IPMI Hosts(SSM) O Agentless Hosts(SSM) O Hosts(SSM) O HOSTS(HOSTS(HOST) O HOSTS(HOSTS(HOSTS(HOSTS(HOSTS(HOSTS(HOSTS(HOSTS(HOSTS(HOST	State Actions
4 🙀 IPMI	Healthy IPMI Connector	💕 Start Maintenance Mode
IPMI Device View	Healthy SSM Connector	📲 Edit Maintenance Mode Se
iPMI Group Diagram		Stop Maintenance Mode
A Legisson		Personalize view
Host View		Tasks 🗸
Service View		=
≤ SSM Group Diagram		Navigation 🗸
SSM View	<u>د</u>	Supermicro NT Service
	Detail View	Software Tasks
Show or Hide Views		Discovering SSM Servers
New View b		Restart Service
	Full Path Name SSM Connector	Start Service
Monitoring		Stop Service
Authoring		Report Tasks
		Agent Counts by Date, Ma
· · · ·	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Alert Logging Latency
······································		Alerts

Figure 4-3

4. In the Discovering SSM Servers dialog box, specify the IP address and then click **Scan** to search for the existing SSM servers. (See <u>5.4.2.1</u> for parameters definitions.)

-	Discovering SSM Servers	×
	Scan	
IP Address 10	160 134	
Not test connection		
Username UserApp1Key	Password Scan Add	d Delete
Scan Result List:	U	
IP User	Password	
Monitoring List:		
IP User	Password	
		Done



5. Select the SSM Server items from Scan Result List, click **Add** to add them to the Monitoring List, and then click **Done**.

C Discovering SSM Servers	X
Single Scan C Range Scan IP Address 10 138 160 134	
□ Not test connection Username [UsesApp1Key Password [************************************	
Scan Result List IP User Pessword	
I Monitorina List:	
IP User Password 10.138.160.1 UserAppTKey S/Fh2EctE	
_	Done

Figure 4-5

6. Wait a few minutes for the connection service to collect data from SSM server. Press the <F5> key to refresh the Result Pane. Make sure the SSM server is discovered in the Result Pane.

<u>File Edit View G</u> o Tas <u>k</u> s] [Search ♥ _↓]	Too	ols Help Scope Pind PTasks @ -		
Monitoring	<	Management Software (3)	>	Tasks
4 宿 Supermicro	^	Q Look for:	Ż	0
III Management Software		State Display Name A PIPMI SSM Hosts(SSM) IPMI Agentle	Sta	te Actions
💑 Task Status 🔺 旑 IPMI	ſ	Healthy 10.138.160.134/SSM Web A Healthy A Healthy		Start Maintenance Mode
IPMI Device View	1	Healthy IPMI Connector	11	Edit Maintenance Mode Se
🗲 IPMI Group Diagram		Healthy SSM Connector Healthy	II.	Stop Maintenance Mode
⊿ 🚰 SSM				Personalize view
Active Alerts	=		-	
Service View			las	iks 💙 🗄
< SSM Group Diagram	-		Na	vigation 🗸
SSM View		۲ الله الله الله الله الله الله الله الل	ss	M Servers Tasks
Synthetic Iransaction	~	Detail View 🗸		Computer Management
				Discovering Agentless Hos
Show or Hide Views		properties of 10.138.160.134/SSM Web		Discovering AgentManage
		Display Name 10.138.160.134/SSM Web Full Path Name 10.138.160.134/SSM Web		Discovering IPMI Host
Monitoring				Open SSM Web
Authoring	_			Remote Desktop
				Restart SSM Server
Keporting				Restart SSM Web
ي ال	*	· · · · · · · · · · · · · · · · · · ·	Po	a art Tacks
Ready				

Figure 4-6

7. You can also select the **Supermicro\SSM\SSM View** to see the monitored SSM servers list.

File Edit View Go Tasks	100	is <u>H</u> elp									
Search 👻 🖕	-	Scope 👂 Find	🛛 T <u>a</u> sks 🕡	Ŧ							
Monitoring	<	SSM View						>	Tasks		
a 🚰 Supermicro	^	SSM						Ū.	1 😧		
📰 Management Software		55141							alua.		A
💐 Task Status		Health State	IP	SSM API Version	Host Count	Service Count	Last Check	Id	SKS		
a 🚰 IPMI			10.138.160.134	2.0	7	34	30 seconds ago	N	avigation	~	
IPMI Device View								_			
< IPMI Group Diagram								SS	SM Servers Tasks	^	
a 🚰 SSM	Н							G	📮 Computer Manage	ment	
Active Alerts									Discovering Agentl	ess Hos	
E Host View									Discovering Agenti	Manage	
Service View											
SSM Group Diagram									Discovering IPMI H	lost	Ξ
SSM View								-	🧧 Open SSM Web		
Synthetic Transaction	\sim	Detail						5	📱 Remote Desktop		
< III >		a 10.138.10	50.134						Restart SSM Server		
Show or Hide Views		15							Restart SSM Web		
New View 🕨		IP	10.138.160.134						-		
	_	HostCount	7					Re	eport Tasks	^	
Monitoring		ServiceCount	34	5 201				-	Agent Counts by D	ate. Ma	
	_	LastCheck (UTC	.)2017/01/18 [08:5	55:29]				_	Alert Logging Later	nev	
Authoring									Alert Logging Later	icy.	
Reporting								1	Alerts		
									Availability		
i 🐺	•								Configuration Char	nges	Ŧ
Ready											

Figure 4-7

4.2 Discovering IPMI Devices

Follow the steps to discover IPMI devices and add it to the monitoring list.

1. <u>Start Operations Manager Console</u>. Click <u>Monitoring</u> dashboard.



Figure 4-8

2. In Navigation Pane, select Supermicro\Management Software.

<u>File Edit View Go Tasks</u>	Too	is <u>H</u> elp			
Search 👻 🝦	-	Scope Prind Tasks 🛛 📮			
Monitoring	<	Management Software (3)	>	ľasks	
a 🚘 Supermicro	^	🔍 Look for: Find Now Clear	7	0	
Management Software		State Display Name O IPMI SSM O Hosts(SSM) IPMI Agentle	Sta	te Actions	4
a in India		Healthy 10.138.160.134/SSM Web A Healthy	1	Start Maintenance Mode.	
IPMI Device View		Healthy IPMI Connector		Edit Maintenance Mode S	
🛁 IPMI Group Diagram		Healthy SSM Connector 🕢 Healthy		Ston Maintenance Mode	
🔺 🚰 SSM				Stop Maintenance Mode	
Active Alerts				Personalize view	
Host View	=		Tas	ks 🗸 🗸	=
Service View			N	insting at	
SSM Group Diagram			INAN	ligation *	
Synthetic Transaction		< III >	SSN	A Servers Tasks 🔥 🔨	
< III >	~	Detail View 🗸		Computer Management	
Show or Hide Views		properties of 10.138.160.134/SSM Web		Discovering Agentless Ho	5
New View 🕨		Display Name 10.138.160.134/SSM Web		Discovering AgentManage	2
		Full Path Name 10.138.160.134/SSM Web		Discovering IPMI Host	
Monitoring				Open SSM Web	
Authoring				Remote Desktop	
				Restart SSM Server	
in reporting				Restart SSM Web	
ي ال	*	~	Por	ort Tacke	-
Ready					



3. In Result Pane, select **IPMI Connector**, and then click **Discovering IPMI Devices** from Tasks Pane.

<u>File E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s	Too	ols Help Scope 🖓 Find 😰 Tasks 😨 🝦		
Monitoring	<	Management Software (3)	>	Tasks
a 済 Supermicro	^	Q Look for: Find Now Clear	2	•
🔛 Management Software		State Display Name Devices SSM Hosts(SSM) IPMI Agentle	Sta	te Actions
a 🙀 IPMI		<i>⊘</i> Healthy 10.138.160.134/SSM Web <i>Q</i> Healthy	- 	Start Maintenance Mode
IPMI Device View		Healthy IPMI Connector		Edit Maintenance Mode Se
🛃 IPMI Group Diagram		Itealthy SSM Connector Itealthy		Stop Maintenance Mode
A Carline Alerts				Personalize view
Host View	≡		Tac	vs 🗸
Service View			103	
🗲 SSM Group Diagram	۲		Na	vigation 👻
SSM View		۲ III >	Sup	ermicro NT Service
	~	Detail View 🗸	Sof	tware Tasks
				Discovering IPMI Devices
Show or Hide Views		properties of IPMI Connector		Restart Service
New view »		Display Name IPMI Connector		Start Service
Monitoring				Stop Service
Authoring			Rep	oort Tasks 🔦
Reporting				Agent Counts by Date, Ma
				Alert Logging Latency
्राः प् र	•			Alerts
Ready				

Figure 4-10

4. In the Discovering IPMI Devices dialog box, specify the IP address, and then click **Scan** button to search IPMI devices. (See <u>5.3.2.1</u> for parameter definitions)

	Discov	vering IPMI Devices	×
C Single Scan @ Range S	can		
Not test connection	133 . 1101 1104		
Username ADMIN	Password see	Scan Add Delete	
Scan Result List:			
IP Version	User Password		
10.138.33.101 IPMI 2.0 AS 10.138.33.102 IPMI 2.0 AS 10.138.33.103 IPMI 2.0 AS 10.138.33.104 IPMI 2.0 AS	ADMIN syhiEhXITF ADMIN KSb0+3ITE ADMIN B21gBbjaD ADMIN xBA1K/Vn:	> E M	
Monitoring List:			
IP Version	User Password		-
		Done	

Figure 4-11

5. Select the IPMI device items from Scan Result List, click **Add** to add them to the Monitoring List, and then click **Done**.

C Discover	ring IPMI Devices
C Single Scan C Range Scan	
Not test connection Usemane ADMIN Password resex Scan Result List	Scan Add Delete
IP Venion User Passwod 1013833104 IPNI2.05A. ADMIN B21g8baD. 1013833104 IPMI.2.0.AS ADMIN 824g8baD. 1013833104 IPMI.2.0.AS ADMIN 8841K-Vriel	
IP Version User Password 10.138.33101 IPHI2.0.0.5. ADMIN spheFbYTP. 10.138.33102 IPHI2.0.0.5 ADMIN KSb0+3TEL	
	Done

Figure 4-12

6. Wait a few minutes for the connection service to collect data from IPMI devices. Press <F5> the key to refresh the Result Pane. Selecting the **IPMI Connector\IPMI Devices** column will display a list of discovered IPMI devices in Detail Pane.

Search *	_
Monitoring Management Software Management Software Find Now Clear Display Name Pind Now Pind Now <t< td=""><td></td></t<>	
^A Case Supermicro ^A Case Supermicro ^A Find Now Clear ^D PMI	
Imagement Software State Display Name Image Phil Devices State Image Phil Devices Image Phil De	
Task Status	<u>^</u>
A 🕞 IDMI 🕢 Healthy 10.138.160.134/SSM Web 🕢 Healthy 🕢 Healthy 🖬 Start Maintenance Mod	e
IPMI Device View IPMI Connector IPMI Connector	Se
G IPMI Group Diagram @ Healthy SSM Connector @ Healthy BSM Stop Maintenance Mod	e
A Cal SSM	
Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts Active Alerts A	
Service View lasks	
SSM Group Diagram Navigation V	•
En SSM View III Supermicro NT Service	
Detail View Software Tasks	
Show or Hide Views	es
New Ver >	
C Healthy 10.138.33.102 C Healthy Not monito Not monito Not monito Not monito	
Monitoring 🖉 Healthy 10.138.33.101 @ Healthy O Not monito O Not monito O Not monito I Stop Service	
Authoring Report Tasks	
Reporting	Ma
Alert Logging Latency	
Alerts	Ŧ

Figure 4-13

7. You can also select **Supermicro\IPMI\IPMI Device View** to see the monitored IPMI devices list.

File Edit View Go Tasks	Tools	s Help									
Search 👻 🝦	-		🔎 Find 🚺 Tasks 🕡	Ŧ							
Monitoring	< 1	IPMI Dev	rice View							 Tasks 	_
4 🖾 Supermicro	^	IPMI	Device							2	
🛄 Management Software		Healt	th State IP	Version						Tasks 🗸	-
			0.138.33.101	IPMI 2.0 ASF	D_T IPMI+k	WM				Navigation 🗸	
IPMI Device View)		I0.138.33.102	IPMI 2.0 ASF	D_T IPMI+k	WM				IPMI Devices Tasks	
a 🖓 SSM	H									BMC Cold Reset	
Active Alerts										Graceful Shutdown	
Rest View	≡									Open KVM	
Service View										Open Web	
SSM Group Diagram											Ξ
SSM View			-1							Power Off	
Synthetic Transaction	~	Deta	ail							Power On	
< III >		10 👞	.138.33.101							Reset	
Show or Hide Views		Senso	ors IPMI Device BMC S	etting FRU In	fo.					Report Tasks	
		State	Name	Reading	LowNR	LowCT	HighCT	HighNR	~	Agent Counts by Date Mi	a
Monitoring		\checkmark	FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM			
monitoring		\bigcirc	PS Status	01 C0 01 00	N/A	N/A	N/A	N/A		Alert Logging Latency	
Authoring		\bigcirc	CPU Temp	26C/79F	0C/32F	0C/32F	100C/212F	100C/212F		Alerts	L
			PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F		Availability	
Reporting			P1-DIMMA2 Temp	26C/79F	1C/34F	2C/36F	85C/185F	90C/194F	-	Configuration Changes	
ې او	-		Sucrem Lamp		- DR / TRE	• 271 7 TUE	• 850 / 185F	Carle / TG/TE		Data Volume by Manager	m
Ready											

Figure 4-14

5 Using Supermicro Management Packs

Supermicro Management Packs contain class definition, monitoring settings, views and tasks for Supermicro's hardware devices or software systems. It will extend the capability of Operations Manager Console to discover, monitoring and operating with Supermicro's products.

The management plugin for SCOM/SCCM contain the following management packs.

- Supermicro.Core: Supermicro Core MP
- Supermicro.SSM: Supermicro SSM MP
- Supermicro.IPMI: Supermicro IPMI MP

5.1 Management Pack Architecture

The following table is the dependency of Supermicro management packs.

Supermicro IPMI MP	Supermicro SSM MP				
Supermicro.IPMI	Supermicro.SSM 1.1.0.224				
Supermicro Core MP					
Supermicro.Core		1.1.0.224			

Table 5-1

5.2 Supermicro Core MP

The Supermicro Core Library MP defines base classes and basic functionalities. It is also the core reference for other management packs.

5.2.1 Folders and Views

The Supermicro Core Library MP contains following folders and views. All folders and views in this management pack are located in the **Navigation Pane** of **Monitoring dashboard**.

Name	Туре	Description
<u>Supermicro</u>	Folder	The root folder consists of all views and all other Supermicro Management Packs.
Management Software	View	This view displays <u>Supermicro Connector Services</u> and <u>SSM Servers</u> . It also provides task functions for configure discovering settings.
Task Status	View	This view contains all running status of agent tasks.

5.2.1.1 Supermicro Folder

This folder contains the views of Management Software and Task Status. It is the root folder that will contain all folders defined in other Supermicro management packs.



Figure 5-1

5.2.1.2 Management Software View

File Edit View Go Tasks T	Foo Ne	s Help Scope 🔎 Find 😰 Tasks 😨 🖕		
Monitoring	<	Management Software (3)	>	Tasks
🔺 🚈 Supermicro	^	🔍 Look for: 🛛 💦 Find Now Clear	C	
🗰 Management Software 🥏 Task Status		State Display Name IPMI SSM Servers Hosts(SSM) IPMI Hosts(SSM) Agent	e: S: Si	tate Actions
a 🙀 IPMI		🕢 Healthy 10.138.160.134/SSM Web 🕢 Healthy 🕢 Healthy		🖞 Start Maintenance Mode
📴 IPMI Device View		🕢 Healthy 🛛 IPMI Connector 🛛 🕢 Healthy	3	📔 Edit Maintenance Mode Se
iPMI Group Diagram		🕢 Healthy SSM Connector 🛛 🕢 Healthy	3	👸 Stop Maintenance Mode
 Active Alerts 				Personalize view
💼 Host View	≡		Б	asks 🗸 =
Service View			_	
< SSM Group Diagram			N	lavigation 🗸
SSM View			s	SM Servers Tasks
Synthetic Transaction	~	Detail View		Computer Management
				Discovering Agentless Hos
Show or Hide Views		properties of 10.138.160.134/SSM Web		Discovering Agentiess hos
New View 🕨		Display Name 10.138.160.134/SSM Web		Discovering Agentivianage
Manifesing		Full Path Name 10.138.160.134/SSM Web		Discovering IPMI Host
wonitoring				Open SSM Web
nuthoring				👔 Remote Desktop
Reporting				Restart SSM Server
				Restart SSM Web
🥨 🔣 1	•		D	opost Tacks
Ready				

Figure 5-2

This view displayw instances for the following classes.

- Supermicro Connector Services (Ex: IPMI Connector or SSM Connector)
- SSM Servers.

Describe columns as following.

Column	Description
State	 The Health State of following monitored objects. <u>Connector Service Health Monitor</u>
	<u>SSM Server Health Monitor</u>
Display Name	The display name of the monitored object.
IPMI Devices	A rollup (worst of) health state of monitored IPMI devices.
SSM Servers	A rollup (worst of) health state of monitored SSM Servers.
Hosts (SSM)	A rollup (worst of) health state of SSM monitored Hosts. The hosts

	 AgentManaged Hosts IPMI Hosts Agentless Hosts.
IPMI Hosts (SSM)	A rollup (worst of) health state of SSM monitored IPMI hosts.
Agentless Hosts (SSM)	A rollup (worst of) health state of SSM monitored Agentless hosts.
AgentManaged Hosts (SSM)	A rollup (worst of) health state of SSM monitored AgentManaged hosts.

You can choose columns to display, please refer to Personalize View.

5.2.1.3 Task Status View

This view contains instances for <u>agent tasks</u> defined in Supermicro Management Packs.

File Edit View Go Tasks	Too I	ls Help Scope 🔎 Find	🖸 Tasks 🕡 📮							
Monitoring	<	Task Status (1)							> т	asks
🔺 🚈 Supermicro	^	🔍 Look for:			Find Now	Clea	ir		2	0
🔢 Management Software		Status 🔺	Task Name	Start Time	Submitted By	Run A	As Rui	n Locatio	Task	Actions ^
Task Status		🕑 Success	Ping	1/18/2017 2:07:	SMCIPMI\admi		SC	OM2012R		Personalize view
IPMI Device View										Show Combined Task Output
🚭 IPMI Group Diagram										
a 🖓 SSM										
Active Alerts Host View	=									
Service View										
< SSM Group Diagram	-									
SSM View		<		Ш				>		
Synthetic Transaction	~	Task Details						~		
Channes Highe Minute		To view the results	of multiple tasks, use t	the 'Show Combined 1	ask Output' action.					
Show or Hide views								\sim		
	_									
Monitoring										
Authoring										
Reporting										
ې 😳	•							\sim		
Dece de la										

Figure 5-3

Column	Description
Status	The state return by task. Valid values are Scheduled, Started,
	Succeeded and Failed.
Task Names	Name of the task.
Schedule Time	The time that task was scheduled.
Submitted by	The User's Name that submitted the task.
Run Location	The Computer Name that the task was run on.

In Detail Pane you can also find the task resultant output. Click **Result** for response messages.

File Edit View Go Tasks	Тс	ools Help								
Search 👻 📮	4	🖡 Scope 👂 Find	I 🗵 Tasks 🔞 📮							
Monitoring	<	Task Status (1)						>	Tasks	
🔢 Management Software	^	Status 🔺	Task Name	Start Time	Submitted By	Run As	Run L	. 🔽	0	
邊 Task Status		🕑 Success	Discovering Agen	1/13/2017 12:27	SMCIPMI\Adm		SCOM	1 💷	Show Combined Task Output	-
a 🖓 IPMI										
📰 IPMI Device View								Tas	ks ^	•
🗲 IPMI Group Diagram									Entity Properties	
a 🙀 SSM									Health Explorer	
≽ Active Alerts										
📑 Host View	≡							Na	vigation 🗸	,
Service View		<					>	_		-
< SSM Group Diagram		Task Details					~	SSI	M Servers Tasks	•
📰 SSM View									Computer Management	=
Synthetic Transaction	~	Task Output:					^		Discovering Agentless Host	
		Date and Time:	1	/13/2017 12:20:00 A	M				Discovering AgentManaged Ho	st
Show or Hide Views		Property Name	F	Property Value					Discovering IBMI Hest	
New View 🕨		IP	1	0.138.160.134					Discovering iPivit Host	
		detect inmi	5	1999 110					Open SSM Web	
Monitoring		ipmi_id	A	DMIN					Remote Desktop	
Authoring	_	ipmi_password	A	DMIN					Restart SSM Server	
Autioning		detect_nm	f	alse					Dectart SSM Web	
Reporting		search range	1	0.138.160.101					Restart SSIVI Web	
120		override						Reg	oort Tasks	
Administration		Status	0	DK D U C	(1) E					
		Result	C	iscovery Result, Su configurations of 'h	ccess(1) : Success to ost1' Fail(0)	o save	\sim	. 🖻	Agent Counts by Date, Manage	me
Ц.								-	Alert Logging Latency	
Ready										

Figure 5-4

5.2.2 Tasks

The Supermicro Core MP provides following tasks.

Name	Туре	Target	Description
Start Service	Agent	Supermicro Connector Services	Starts the selected Connector Services
Stop Service	Agent	Supermicro Connector Services	Stops the selected Connector Services
Restart Service	Agent	Supermicro Connector Services	Restarts the selected Connector Services

Table 5-2

5.2.2.1 Start Service



Figure 5-5

- Task Type: This is an agent task associated with Supermicro Connector Services.
- **Description:** Running this task will start the selected connector services.
- Parameter: No parameter is required for this task.

5.2.2.2 Stopping Service

File Edit View Go Tasks	To	ols Help	Find 🚺 Tasks 🔞 💡								
Monitoring	<	Management	Software (3)						> 1	Tasks	_
🔛 Management Software	^	State	Name 🔺	IPMI Devices	SSM Servers	🕢 Hosts(SSM) 🕜 IPMI Hosts(SSM)		2	0	
Task Status		🕢 Healthy	10.138.160.134/SSM Web	benet	ouriers	🕢 Healthy	Healthy			Entity Properties	*
IPMI Device View		🕢 Healthy	IPMI Connector	🕢 Healthy						Health Explorer	
iPMI Group Diagram		🕢 Healthy	SSM Connector		🕢 Healthy				Nav	vigation 🗸	
a 🖓 SSM											
Active Alerts	_								Sup Sof	permicro NT Service	
Host View	-									Discovering IPMI Devices	
< SSM Group Diagram										Restart Service	
ssM View	_									Start Service	
Synthetic Transaction III >	~									Stop Service	
Show or Hide Views								l	Por	aast Taska 🔹 🔺	
New View 🕨									Nep	Joit lasks	Ξ
	3								-	Agent Counts by Date, Manageme	
Monitoring										Alert Logging Latency	
Authoring										Alerts	
									-	Availability	
Reporting										Configuration Changes	
Administration		<		ш				>		Data Volume by Management Pac	
	+	Detail Viev	W					~		Data Volume by Workflow and Ins	-
Ready	_									Frank Analysis	

Figure 5-6

- **Task Type**: This is an agent task associated with Supermicro Connector Services.
- **Description**: Running this task will stop the selected connector services.
- **Parameter:** No parameter is required for this task.

5.2.2.3 Restarting Service

File Edit View Go Tasks T	ools Help 🙀 Scope 🖓	Find 🚺 Tasks 👔 🖕								
Monitoring <	Managemen	t Software (3)						> 1	Tasks	
🛄 Management Software 🔨 Task Status	State	Name	IPMI Devices	SSM Servers	Hosts(SSM) IPMI Hosts(SSM)	O Ag He	2		
IPMI IPMI Device View	 ✓ Healthy ✓ Healthy 	10.138.160.134/SSM Web IPMI Connector	🕢 Healthy		🥑 Healthy	🕢 Healthy			Health Explorer	
Si IPMI Group Diagram	🕢 Healthy	SSM Connector		🕢 Healthy				Nav	vigation 🗸	
Active Alerts								Sup Soft	ermicro NT Service 🔨	
Service View									Discovering IPMI Devices	
SSM Group Diagram									Restart Service Start Service	
Swithetic Transaction									Stop Service	
Show or Hide Views New View >								Rep	oort Tasks	
Monitoring									Agent Counts by Date, Managem	e
Authoring									Alerts	
Reporting									Availability Configuration Changes	
🚳 Administration	<		Ш				>		Data Volume by Management Pa	c
	Detail Vie	W					*		Data Volume by Workflow and In	s *

Figure 5-7

- **Task Type**: This is an agent task associated with Supermicro Connector Services.
- **Description:** Running this task will restart the selected connector services.
- **Parameter:** No parameter is required for this task.

5.2.3 Groups

This management pack contains the following groups.

Name	Description					
Supermicro All Instance Group	A root group that contains all Supermicro entities and subgroups					

Table 5-3

5.2.4 Monitors

This management pack will monitor the health of managed objects listed in the table.

Name	Target	States	Description			
Connector Service	Supermicro Connector	Healthy	The Service is running.			
Health Monitor	Services	🔺 Warning	The Service is not running.			

Table 5-4

5.3 Supermicro IPMI MP

This management pack extends Operations Manager Console to be able to discover and monitor the health state of IPMI devices. It also provides tasks for management.

5.3.1 Folders and Views

The Supermicro IPMI MP contains the following folders and views.

Name	Туре	Description
IPMI	Folder	The main folder for the views in this management pack. This
		folder is contained under the root folder "Supermicro".
IPMI Device View	View	A composite dashboard view displays IPMI device list and detailed
		information.
IPMI Group	View	A group diagram view displays the hierarchy of IPMI devices.
<u>Diagram</u>		
<u>Diagram</u>		

Table 5-5

5.3.1.1 IPMI Folder

This folder contains the views of IPMI Device and IPMI Group Diagram. It is the main folder of this management pack.



Figure 5-8

5.3.1.2 IPMI Device View

This view display instances for IPMI device class.

File Edit View Go Tasks	Tool	s Help										
Search 👻 📮	-		🔎 Find 🚺 Tasks 🕡	Ŧ								
Monitoring	۲.	IPMI Dev	ice View							>	Tasks	
4 🚰 Supermicro	^	IPMI	Device							2	0	
🛄 Management Software		Healt	th State ID	Version						Tas	sks 🗸	^
a k status		Tican	0 10.138.33.101	IPMI 2.0 ASP	D T IPMI+k	(VM				N	vication	
IPMI Device View			0.138.33.102	IPMI 2.0 ASP	D T IPMI+k	CVM				INC	vigation +	
< IPMI Group Diagram			•		-					IPI	MI Devices Tasks	
a 🚰 SSM											BMC Cold Reset	
Active Alerts	_										Graceful Shutdown	
Host View	=										Open KVM	
Service View											Open Web	
SSM Group Diagram											Power Off	Ξ
Synthetic Transaction		Dota	il.								Power On	
	~	Deta	111								Power On	
		10 👞	.138.33.101								Reset	
Show or Hide Views		Senso	ors IPMI Device BMC Se	etting FRU In	fo.					Re	port Tasks 🔥	
NEW VIEW F	_	State	Name	Reading	LowNR	LowCT	HighCT	HighNR			Agent Counts by Date M	/a
Monitoring		\checkmark	FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM			Agent counts by bute, if	
Monitoring	-	\bigcirc	PS Status	01 C0 01 00	N/A	N/A	N/A	N/A			Alert Logging Latency	
Authoring		\bigcirc	CPU Temp	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F			Alerts	_
			PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F			Availability	
Keporting			P1-DIMMA2 Temp	25C/77F	1C/34F	2C/36F	85C/185F	90C/194F	-		Configuration Changes	
ي ال	•		and emp	• 250777E	- SH / INF	// / 196	• 851 / 185E	. GAT / TO/F			Data Volume by Manage	em 👻
Ready												

Figure 5-9

Column	Description
Health State	Health State of the IPMI device. See IPMI Device Health Monitor.
IP	IP Address of the IPMI device.
Version	IPMI device version.
In Detail Pane, the tabs provide additional information for the selected device.

state Nan	me	Reading	LowNR	LowCT	HighCT	HighNR	
🕖 FAN	N	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	П
PS:	Status	01 C0 01 00	N/A	N/A	N/A	N/A	
CPU	U Temp	26C/79F	0C/32F	0C/32F	100C/212F	100C/212F	
PCH	H Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F	
P1-	-DIMMA2 Temp	26C/79F	1C/34F	2C/36F	85C/185F	90C/194F	
🕖 Sys	stem Temp	25C/77F	-9C/16F	-7C/19F	85C/185F	90C/194F	
🕖 Per	ripheral Temp	29C/84F	-9C/16F	-7C/19F	85C/185F	90C/194F	
🕖 VBA	AT	3.33 V	2.38 V	2.49 V	3.58 V	3.67 V	
5VC	cc	5.05 V	4.24 V	4.29 V	5.54 V	5.59 V	
12V	V	11.87 V	10.14 V	10.27 V	13.28 V	13.4 V	
🕥 VD	IMM	1.38 V	1.26 V	1.29 V	1.79 V	1.81 V	

• Sensors Page: Displays the state of sensors installed on the device.



IPMI Device Page: Displays the information of the BMC firmware installed in the device.

Sensors	IPMI Device	BMC Setting	FRU Info.			
	Device Inf	ormation				
Firmwa	are Revision	4.43		ACPI System Power State	S0/G0 (working)	
IPMI R	evision	2.0				
Fan Sp	eed Mode					
Stand	lard O C	Optimal				
O Full	() P	UE2 Opt				
O Heavy	у Ю 🛛 🔿 Р	UE3 Opt				



• **BMC Setting Page**: Displays the detailed information on the BMC LAN Configuration.

Sensors	IPMI Device	BMC Setting	FRU Info.			
BMC L	AN Configu	ration				
	IP Add	Iress 10.13	38.33.101	LAN MAC	00:25:90:EE:59:DB	
	Gatewa	ay IP 10.1	38.0.250			
	Subnet N	/lask 255	.255.0.0			



• **FRU Info. Page:** Provides useful information on the board and the product.

Sensors	IPMI Device	BMC Setting	FRU Info.			
FRU In	formation					
Board	Info			P	Product Info	
Manufa	acturer		Supermic	D N	Manufacturer	
Name				٩	Name	
Serial N	Number			F	Part/Model Number	
Part Nu	umber			V	/ersion	
				s	Serial Number	



5.3.1.3 IPMI Group Diagram View

This view displays the IPMI Group and its monitored IPMI devices in a hierarchy structure.



Figure 5-14

5.3.2 Tasks

The Supermicro Core MP provides following tasks.

Name	Туре	Target	Description
Discovering IPMI	Console	Supermicro IPMI	Edits configurations of discovered IPMI
<u>Devices</u>		Connector	devices.
BMC Cold Reset	Agent	IPMI Devices	Resets IPMI device.
Power On	Agent	IPMI Devices	Powers up the system.
Power Off	Agent	IPMI Devices	Powers down the system.
<u>Reset</u>	Agent	IPMI Devices	Resets the system.
. <u>Graceful Shutdown</u>	Agent	IPMI Devices	Initiates a soft shutdown of the system.
<u>Open KVM</u>	Console	IPMI Devices	Launches the KVM window console.
Open Web	Console	IPMI Devices	Launches an IE browser and navigates to the

Table 5-6

5.3.2.1 Discovering IPMI Devices

File Edit View Go Tasks To	ols Help Grope Find Tasks @	
Monitoring <	Management Software (3)	Tasks
🔺 🙀 Supermicro 📃 🔺	🔍 Look for: 🛛 🛛 👔 Find Now Clear	2 🔞
🔢 Management Software	State Display Name	tate Actions
a 🙀 IPMI		🖞 Start Maintenance Mode
IPMI Device View	Healthy IPMI Connector	🖉 Edit Maintenance Mode Se
iPMI Group Diagram	Healthy SSM Connector	👸 Stop Maintenance Mode
a 🚰 SSM		Personalize view
Active Alerts		
Service View	Ta	asks 🗸
< SSM Group Diagram	N	lavigation 🗸
SSM View	S.	uparmiero NT Sarvica
Synthetic Transaction	Sc	oftware Tasks
< III >		Discovering IPMI Devices
Show or Hide Views	L	Restart Service
New View 🕨		Start Service
Marcharles		Stop Service
Monitoring		a stop service
Authoring	Re	eport Tasks 🔨
Reporting		🚽 Agent Counts by Date, Ma
· · · ·		Alert Logging Latency
🥨 🔣 🔻	Detail View Y	Alerts



- Task Type: This is a console task associated with Supermicro IPMI Connector.
- **Description:** Running this task will open a Discovering IPMI devices dialog box. The dialog box provides functions for scan IPMI devices, and edit monitoring list. The IPMI devices in the monitoring list will be discovered and monitored in Operations Manager Console. Please refer to <u>Discovering IPMI Devices</u>.
- Parameter:

Parameter	Description	Required	Option
IP Address	IP Address for scan IPMI devices • Single Scan (IP address) IP Address 10 134 14 110 • Rage Scan (IP Range) IP Address 10 134 14 110 150	Yes	
Username	The IPMI device(BMC) login username	Yes	
Password	The IPMI device(BMC) login password	Yes	

5.3.2.2 BMC Cold Reset

File Edit View Go Tasks	Tools	Help							
Monitoring	: আৰ ০০ < IPI	MI Device View							Tasks
Ga Supermicro	^	IPMI Device							0
Task Status		Health State IP		Tasks 🗸					
🖉 ipmi		10.13		Navigation Y					
IPMI Device View		In 10 13							
IPMI Group Diagram			SISSINGE IN MILEIO ASI						IPMI Devices Tasks
4 🙀 SSM									BMC Cold Reset
≽ Active Alerts									Graceful Shutdown
📴 Host View	≡								
📴 Service View									Open KVM
< SSM Group Diagram									耳 Open Web
📴 SSM View									Power Off
Image: Synthetic Transaction	~	Detail							Power On
	•	• 10 138 33 101							Reset
Show or Hide Views									
New View 🕨		Sensors IPMI Device	BMC Setting FRU In	ifo.					Report Tasks
		StateName	Reading	LowNR	LowCT	HighCT	HighNR	~	Agent Counts by Date, Ma
Monitoring		🖉 FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	=	Alert Logging Latency
		PS Status	01 C0 01 00	N/A	N/A	N/A	N/A		Alert bogging catelley
Authoring		CPU Temp	25C/77F	0C/32F	UC/32F	100C/212F	100C/212F	-	Alerts
- Reporting		PCH Temp	29C/84F	- HC/12F	-8C/18F	95C/203F	100C/212F	-	Availability
incporting		Sustam Tamp	25C/77F	-0C/16F	_7C/10F	85C/185F	00C/104F	-	Configuration Changes
🌼 🗖	-								Data Volume by Manager

Figure 5-16

- **Task Type**: This is an agent task associated with IPMI devices.
- **Description**: Running this task will reset the selected IPMI devices.
- **Parameter:** No parameter is required for this task.

5.3.2.3 Power On

File Edit View Go Tasks	Tools	Help										
Search 👻 📮	S S	Scope	🖓 Find 🚺 Tasks 🔞	÷								
Monitoring	< 1	PMI Dev	ice View							>	Tasks	
⊿ 🚰 Supermicro Ⅲ Management Software	^	IPMI	Device		2	0						
🛃 Task Status		Healt	h State IP		Ta	sks 🗸						
a 🙀 IPMI			10.138.33.101		Na	avigation 🗸						
IPMI Device View	IPMI Device View 0 10.138.33.102 IPMI 2.0 ASPD_T IPMI+KVM											
🚭 IPMI Group Diagram		IP	MI Devices Tasks 🔥									
🔺 宿 SSM											BMC Cold Reset	
≽ Active Alerts											Graceful Shutdown	
📰 Host View	≡											
📴 Service View										Dpen KVM		
< SSM Group Diagram											Open Web	
📑 SSM View											Power Off	
Synthetic Transaction	~	Deta	i								Power On	
< III >	•	- 10	138 33 101								Reset	
Show or Hide Views			.150.55.101							_		
New View N		Senso	ors IPMI Device BMC S	Setting FRU In	fo.					Re	port Tasks 🔥	
		State	Name	Reading	LowNR	LowCT	HighCT	HighNR			Agent Counts by Date. Ma	
Monitoring		\bigcirc	FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	-		Alart Logging Latency	
		\bigcirc	PS Status	01 C0 01 00	N/A	N/A	N/A	N/A			Alert Logging Latency	
nuthoring		\otimes	CPU Temp	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F			Alerts	
		\otimes	PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F			Availability	
Keporting			P1-DIMMA2 Temp	25C/7/F	1C/34F	2C/36F	85C/185F	90C/194F	-		Configuration Changes	
ې 🔅 🗖	- 1		Storiam Lamp	• 74777	• 500 / TAF	• • • • • • • • •	1 ATT / 183E				Data Volume by Managem	
Ready										-		

Figure 5-17

- **Task Type**: This is an agent task associated with IPMI devices.
- **Description:** Running this task will initiate power up of the system for selected IPMI devices.
- **Parameter:** No parameter is required for this task.

5.3.2.4 Power Off

- **Task Type**: This is an agent task associated with IPMI devices.
- **Description:** Running this task will initiate power down of the system for selected IPMI devices.
- **Parameter:** No parameter is required for this task.

File Edit View Go Tasks	Тоо	ls Help								
Search 👻 🖕	-		🔎 Find 🚺 Tasks 🔞	Ŧ						
Monitoring	<	IPMI Dev	rice View							➤ Tasks
a 済 Supermicro	^	IPM	Device							2
💑 Task Status		Heal	th State IP	Version						Tasks 🗸
4 🙀 IPMI			0.138.33.101	IPMI 2.0 ASE	D_T IPMI+I	(VM				Navigation 🗸
IPMI Device View			0.138.33.102	IPMI 2.0 ASE	D_T IPMI+I	(VM				
< IPMI Group Diagram			-							IPMI Devices Tasks
a 🚰 SSM	ы									BMC Cold Reset
left Active Alerts										Graceful Shutdown
Host View	=									Open KVM
Service View										
≤ SSM Group Diagram	П									Dpen Web
SSM View										Power Off
Synthetic Transaction	\mathbf{v}	Deta	ail							Power On
< III >		<u>a</u> 10	.138.33.101							Reset
Show or Hide Views		Sanc	orr IPMI Device RMC S	atting ERILIN	fo					Papart Tasks
New View 🕨		Seria Seria			L ND	LCT	UL-LOT			Report lasks •••
		State		0200 PDM	200 PDM	500 PDM	25400 PDM	25500 PDM		Agent Counts by Date, Ma
Monitoring		ŏ	PS Status	01 C0 01 00	N/A	N/A	N/A	N/A	Ξ	Alert Logging Latency
Authoring		Ŏ	CPU Temp	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F		Alerts
- Automig		Ø	PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F		Availability
Reporting		\checkmark	P1-DIMMA2 Temp	25C/77F	1C/34F	2C/36F	85C/185F	90C/194F	_	Configuration Changes
~ T	-	$\mathbf{\Omega}$	Sustam Tamn	25C/77F	_0C/16F	_7C/10F	85C/185E	00C/10/F	Ť	Configuration Changes
₩ L <u>8</u>	8									Data Volume by Managem -
Pondy										

Figure 5-18

5.3.2.5 Reset

File Edit View Go Tasks	Tools	s Help											
Search 👻 📮	-	Scope	P Find	🗵 Tasks 🕡	-								
Monitoring	<	PMI Dev	ice View								> 1	asks	
Supermicro Management Software	^	IPMI	Device	9		Ż	0						
lask Status		Healt	h State	IP	Version						Tasl	(S	× 1
a 👼 IPMI				10.138.33.101	IPMI 2.0 ASP	D T IPMI+k	WM				Nav	igation	~
IPMI Device View			ă	10 138 33 102		INCO	igation						
😴 IPMI Group Diagram	Diagram												^
4 👰 SSM												BMC Cold Reset	
🌽 Active Alerts												Grandel Chutdawa	
📴 Host View	≡											Gracerul Shutdown	
Service View											-	Open KVM	
< SSM Group Diagram												Open Web	_
SSM View												Power Off	
👂 📴 Synthetic Transaction	~	Deta	il									Power On	
< III >		a 10	138.33	.101								Reset	
Show or Hide Views		10									-		
New View 🕨		Senso	ors IPMI	Device BMC Se	tting FRU In	fo.					Rep	ort Tasks	^
	_	State	Name		Reading	LowNR	LowCT	HighCT	HighNR	<u>^</u>		Agent Counts by Da	ate, Ma
Monitoring		\bigcirc	FAN		9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	=		Alert Longing Later	~
		\otimes	PS Status		01 C0 01 00	N/A	N/A	N/A	N/A				-,
📝 Authoring			CPU Tem	p	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F	4		Alerts	
Paparting			PCH Iem	p	29C/84F	- HC/12F	-8C/18F	95C/203F	100C/212F	4		Availability	
Keporung		1 K	System T	IA2 Temp	250/775	-0C/16E	2C/30F	85C/185F	90C/194F	-		Configuration Chan	ges
🌣 👿	-											Data Volume by Ma	nagem 🚽
Ready													

Figure 5-19

- **Task Type**: This is an agent task associated with IPMI devices.
- **Description:** Running this task will reset the system for the selected IPMI devices.
- **Parameter:** No parameter is required for this task.

5.3.2.6 Graceful Shutdown

File Edit View Go Tasks T	ools	Help	0 mail 1 Ta										
Monitoring	आ∉ ः < IP	MI Devi	ce View	KS U	Ŧ						> 1	asks	
A C Supermicro Management Software	^	IPMI	Device	2	0								
lask Status		Healt	h State IP		Version						Tasl	(S	*
a 👼 IPMI			10.13	8.33.101	IPMI 2.0 ASP	D T IPMI+	(VM				Nav	igation	~
IPMI Device View			10.13	_	INCO	igation							
IPMI Group Diagram				0.00.102	111111 2.10 7.01	0_111101111					IPM	II Devices Tasks	^
4 🙀 SSM												BMC Cold Reset	
Active Alerts												Graceful Shutdown	1 II
📑 Host View	=											Gracerur Shutuowin	J
📑 Service View											-	Open KVM	
🛃 SSM Group Diagram	-											Open Web	-
SSM View												Power Off	1
Synthetic Transaction	~	Deta	il									Power On	
< III >		- 10	138 33 101									Reset	
Show or Hide Views													
New View >		Senso	rs IPMI Device	BMC Set	ting FRU In	fo.					Rep	ort Tasks	^
		State	Name		Reading	LowNR	LowCT	HighCT	HighNR			Agent Counts by Dat	e. Ma
Monitoring		\checkmark	FAN		9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	=		Alert Legging Latence	
		\checkmark	PS Status		01 C0 01 00	N/A	N/A	N/A	N/A			Alert Logging Latenc	У
📝 Authoring		\otimes	CPU Temp		25C/77F	0C/32F	0C/32F	100C/212F	100C/212F	-		Alerts	
Penerting		No.	PCH Temp		29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F	-		Availability	
reporting		le le	Suctem Temp	mp	25C/77E	-0C/16E	2C/30F	85C/185F	90C/194F	*		Configuration Chang	es
🎲 👿 ·	•											Data Volume by Man	agem 🚽
Ready													_

Figure 5-20

- **Task Type**: This is an agent task associated with IPMI devices.
- **Description:** Running this task will initiate soft shutdown of the system for the selected IPMI devices.
- **Parameter:** No parameter is required for this task.

5.3.2.7 Open KVM

File Edit View Go Tasks	File Edit View Go Tasks Tools Help											
Search 👻 👙	1	icope }	🛛 Find 🚺 Tasks 🔞	÷								
Monitoring	< 1	PMI Devi	ce View							> Ta	isks	
a 済 Supermicro	^	IPMI	Device							2	0	
 Nask Status		Health	n State IP	Version						Tasks	5	~
a 🙀 IPMI		(10.138.33.10	1 IPMI 2.0 ASF	D_T IPMI+I	(VM				Navi	gation	~
IPMI Device View		(10.138.33.10	2 IPMI 2.0 ASF	D T IPMI+I	(VM					5	
🚭 IPMI Group Diagram			-							IPMI	Devices Tasks	^
🔺 🚰 SSM											BMC Cold Reset	
≽ Active Alerts											Graceful Shutdown	
📑 Host View	≡											
📑 Service View										1	Open KVM	
🗲 SSM Group Diagram											Open Web	
📑 SSM View											Power Off	
Synthetic Transaction	~	Detai									Power On	
< III >	•	- 10	138 33 101								Reset	
Show or Hide Views												
New View 🕨		Senso	rs IPMI Device BMC	Setting FRU In	fo.					Repo	ort Tasks	^
		State	Name	Reading	LowNR	LowCT	HighCT	HighNR			Agent Counts by Da	ate, Ma
Monitoring		\bigcirc	FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	=		Alert Logging Laten	
			PS Status	01 C0 01 00	N/A	N/A	N/A	N/A				
nuthoring			CPU Temp	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F	-		Alerts	L
Paparting			PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F	-	<u> </u>	Availability	
reporting		18	System Temp	25C/77E	-0C/16E	2C/30F	85C/185F	90C/194F	-	<u> </u>	Configuration Chan	ges
🌼 🗖	- 1										Data Volume by Ma	anagem
Ready												_

Figure 5-21

- Task Type: This is a console task associated with IPMI devices.
- **Description:** Running this task will open KVM window of the selected IPMI device.
- **Parameter:** No parameter is required for this task.

Parameter	Description	Required	Option
Username	The username for login IPMI device (BMC)	Yes	ADMIN
Password	The password for login IPMI device (BMC)	Yes	ADMIN

5.3.2.8 Open Web

File Edit View Go Tasks	Tools	; Help									
Search 👻 😑	-	Scope	🔎 Find 🚺 Tasks 🔞	=							
Monitoring	< 1	PMI Dev	ice View	-						>	Tasks
✓ Comparison A	^	IPMI	Device							2	0
💑 Task Status		Healt	th State IP	Version						Ta	sks 🗸
a 🙀 IPMI			10.138.33.101	IPMI 2.0 ASF	D_T IPMI+I	(VM				Na	avigation 🗸
IPMI Device View	וו		0.138.33.102	IPMI 2.0 ASF	D T IPMI+I	CVM			_		
< IPMI Group Diagram	1		•							IPI	MI Devices Tasks 🔥
🔺 🚰 SSM											BMC Cold Reset
≽ Active Alerts											Graceful Shutdown
📰 Host View	≡										
Service View											Open KVM
< SSM Group Diagram										4	Open Web
📰 SSM View											Power Off
Synthetic Transaction	~	Deta	il								Power On
< III >		- 10	120 22 101								Reset
Show or Hide Views			.130.33.101								, mader
New View N		Senso	ors IPMI Device BMC S	Setting FRU In	fo.					Re	port Tasks ^
14000 01000 #	_	State	Name	Reading	LowNR	LowCT	HighCT	HighNR	~		Agent Counts by Date Ma
Monitoring		\checkmark	FAN	9300 RPM	300 RPM	500 RPM	25400 RPM	25500 RPM	_		
		\bigcirc	PS Status	01 C0 01 00	N/A	N/A	N/A	N/A			Alert Logging Latency
Authoring		\otimes	CPU Temp	25C/77F	0C/32F	0C/32F	100C/212F	100C/212F			Alerts
		\otimes	PCH Temp	29C/84F	-11C/12F	-8C/18F	95C/203F	100C/212F			Availability
Keporting			P1-DIMMA2 Temp	25C/7/F	1C/34F	2C/36F	85C/185F	90C/194F	-		Configuration Changes
ې 🗊	- 1				• 500 / TAF	• • • • • • • • •	1 A 10 / 183E	Carle / TO/TE			Data Volume by Managem
Ready										-	

Figure 5-22

- **Task Type**: This is a console task associated with IPMI devices.
- **Description:** Running this task will open an Internet Explorer browser and navigate to IPMI web page of the selected IPMI device.
- **Parameter:** No parameter is required for this task.

5.3.3 Groups

This management pack contains the following groups.

Name	Description			
Supermicro IPMI Devices Group	Consists all Supermicro IPMI devices.			

Table 5-7

5.3.4 Monitors

This management pack will measure the health of managed objects listed in following table.

Name	Target	State	Description	
IPMI Device Health		Success	The IPMI device is nn.	
Monitor	IPIVII Devices	SError	The IPMI device is off.	
General Sensor Health	General Sensor	Success	The sensor state is ok.	
Monitor	Entities	SError	The sensor state is not ok.	
Temperature Sensor	Temperature Sensor	Success	The sensor state is ok.	
Health Monitor	Entities	Error	The sensor state is not ok.	
Voltage Sensor Health	Voltage Sensor	Success	The sensor state is ok.	
Monitor	Entities	SError	The sensor state is not ok.	
Fan Sensor Health	Fan Concor Entition	Success	The sensor state is ok.	
Monitor	Fan Sensor Enulies	SError	The sensor state is not ok.	
Power Supply Sensor	Power Supply Sensor	Success	The sensor state is ok.	
Health Monitor	Entities	Error	The sensor state is not ok.	
Nada Kay Stata Manitar	Nodo Koy Entition	Success	The sensor state is ok.	
Node key state Monitor	Node key Entities	Error	The sensor state is not ok.	
IPMI Devices Group	IPMI Devices Group	Rollup	This rollup state is from the	
Health Monitor	IF WILDEVICES GIOUP	(Worst Of)	worst case of IPMI Devices.	

Table 5-8

5.4 Supermicro SSM MP

This management pack extends Operations Manager Console to be able to discover and monitor health state of SSM Servers. It also provides tasks for management.

5.4.1 Folders and Views

The Supermicro SSM MP contains following folders and views.

Name	Туре	Description
<u>SSM</u>	Folder	The main folder for the views in this management pack. This folder
		is contained under the root folder Supermicro.
Active Alerts	View	A composite dashboard view displays IPMI device list and detailed
		information.
Host View	View	A composite dashboard view displays discovered Hosts list the
		monitored by SSM Servers. The Host types include AgentManaged,
		IPMI and Agentless Hosts.
Service View	View	A composite dashboard view displays Services list that monitored
		by SSM Servers.
SSM Group	View	A group diagram view displays SSM Server objects hierarchy.
<u>Diagram</u>		
SSM View	View	A composite dashboard view displays the discovered SSM servers
		and detailed information.

Table 5-9

5.4.1.1 SSM Folder

This folder contains the following views. It is the main folder of this management pack.

- Active Alerts
- Host View
- Service View
- SSM Group Diagram
- SSM View



Figure 5-23

5.4.1.2 Active Alerts View

This view displays alert messages defined in this management pack.

File Edit View Go Tasks To	File Edit View Go Tasks Tools Help				
Monitoring <	Active Alerts (1)			 Tasks 	
🗰 Management Software 🛛 🔺	🚯 Icon Source 🖉 Name F	Resolution State	Created		
🛃 Task Status	▲ Severity: Critical (1)			Alert Actions	
4 🙀 IPMI	😵 10.138.160.134/ The server SSM 10.138.160.134 is unreachable	New	1/15/2017 5		
PMI Device View				Start Maintenance Mode	
IPMI Group Diagram				Edit Maintenance Mode Settings	
Active Alerts				Stop Maintenance Mode	
Host View =				🐻 Overrides 🕨	
Service View				Personalize view	
🚭 SSM Group Diagram	< III		>	Subscription	
SSM View	Alast Dataila			Subscription	
Synthetic Transaction	Alert Details		*	12 Create	
Show or Hide Views	Select an item in the view above to display its details.			Modify	
New View 🕨					
Monitoring					
📝 Authoring					
Reporting					
🚳 Administration					
- II.					
Ready					

Figure 5-24

Column	Description		
Severity	Valid values are: Success, Warning, and Error.		
Source	Shows the source that creates the alert.		
Name	Shows the name of the alert.		
Resolution State	Shows the current state of the alert.		
Created	Shows the time when the alert was created.		

5.4.1.3 Host View

This view contains instances for the SSM monitored hosts.



Figure 5-25

Column	Description		
Health State	Health State of <u>SSM monitored hosts.</u> See <u>Host Health Monitor</u> .		
Host Name	Name of the Host.		
Version	IPMI device version.		
Host Type	Host type. Valid values include Agent Managed, Agentless, IPMI, Linux, and		
	Windows.		
Address	Host IP Address or DNS name.		
Last Check	Last Check Time.		

The Detail Pane contains the following tab pages providing additional information for the selected host.

Host Status Ser	vice Status Host Events License Keys						
Status ØUP							
Address	0.138.33.106						
LastCheck (UTC)	17/01/19 [07:17:01]						
StateType	HARD	ARD					
StatusInformatior	Pinging 10.138.33.106 with 32 bytes of data: Reply from 10.138.33.106: bytes=32 time<1ms TTL=64 Reply from 10.138.33.106: bytes=32 time<1ms TTL=64 Ping statistics for 10.138.33.106: Packets: Sent = 2, Received = 2, Lost = 0 (0% loss), Anono	₩ Þ					

• Host Status: Displays additional information for the host.



• Service Status: Displays monitored services on the host.

Host Status	Service Status	Host Events Licen	ise Keys			
IPMI Power	Consumption	Check SUM Support	IPMI Sensor Health	IPMI SEL Health	IPMI System Information	

Figure 5-27

• Host Events: Displays events on the host.

Host Status Service Status Host Events License Keys

Severity	Event Type	Message				
INFO	SSM_SERVER_NOTIFICATION_RECOVERY_SENT	Notify contact 'admin'. Event : service is recovered.				
ERROR	SSM_SERVER_NOTIFICATION_PROBLEM_SENT	Notify contact 'admin' failed. Event : service has problem, message=SEL need 01/03/2017 01:38:38, OS Boot, C: boot completed 12/29/2016 21:19:47, OS Stop Shutdown, OS Graceful Shutdown Result : Send mail failed: Unknown SMTP host: test.smtp.com.tw				
INFO	SSM_SERVER_NOTIFICATION_PROBLEM_SENT	Notify contact 'admin'. Event : service has problem, message=SEL needs atte 01/03/2017 01:38:38, OS Boot, C: boot completed 12/29/2016 21:19:47, OS Stop Shutdown, OS Graceful Shutdown				
ERROR	SSM_SERVER_NOTIFICATION_RECOVERY_SENT	Notify contact 'admin' failed. Event : service is recovered. Result : Send mail f				
•	<)					

Figure 5-28

• License Keys: Displays the activated license keys on the host.

Host Status Service Status Host Events License Keys

KeyName	Creation Date	Expiration Date	
SFT-OOB-LIC			

Figure 5-29

5.4.1.4 Service View

This view will contain instances for the SSM monitored services.



Figure 5-30

Column	Description
Health State	Health State of <u>SSM monitored services</u> . See <u>Service Health Monitor</u> .
Service Name	Service name.
Host Name	Host name.
Last Check	Last check time

5.4.1.5 SSM Group Diagram View

This view displays the SSM Group and its monitored SSM Servers in a hierarchy structure.



Figure 5-31

5.4.1.6 SSM View

This view contain instances for the SSM class.

File Edit View Go Tasks Too	ols Help								
Search 👻 🝦 🖣	Scope	🗵 Tasks 🕡	Ŧ						
Monitoring <	SSM View						> -	Tasks	_
🔢 Management Software 🔺	SSM						2	0	
a 🙀 IPMI	Health State	IP	SSM API Version	Host Count	Service Count	Last Check	Tas	ks ^	
IPMI Device View		10.138.160.134	2.0	5	23	15 seconds ago		Entity Properties	
🛃 IPMI Group Diagram								Health Explorer	
Active Alerts							Nav	vigation ^	
🔚 HostView 🗧								Alert View	
Service View							~	Diagram View	=
🗲 SSM Group Diagram								Event View	
SSM View	•							Event view	
Swnthetic Transaction							<u>>~</u>	Performance View	
	Detail							State View	
Show or Hide Views	a 10 138 10	50.134		Detail			8	Network Vicinity Dashboard	
New View 🕨									
	IP	10.138.160.134					SSN	A Servers Tasks	
Monitoring	HostCount	5						Computer Management	
Authoring	ServiceCount	23						Discovering Agentless Host	
	LastCheck (UTC) 2017/01/16 [01:56:23]			Discovering AgentManaged Hos	ct				
Reporting								Discovering Agentinanaged has	`
Administration								Discovering IPMI Host	
							-	Open SSM Web	
							-	Remote Desktop	Ŧ
Ready									

Figure 5-32

Column	Description
Health State	Health State of the SSM server. See <u>SSM Server Health Monitor</u> .
IP	IP Address of the SSM server.
SSM API Version	The SSM API version.
Host Count	Number of monitored hosts on this SSM server.
Service Count	Number of monitored services on this SSM server.
Last Check	Last check time.

5.4.2 Tasks

The Supermicro Core MP provides these tasks.

Name	Туре	Target	Description
Discovering SSM Servers	Console	Supermicro SSM	Edits configuration for discovering SSM
		Connector	Servers.
Restart SSM Web	Agent	SSM Servers	Restarts web service of the SSM server.
Restart SSM Server	Agent	SSM Servers	Restarts server service of the SSM server.
Discovering_	Agent	SSM Servers	Requests the SSM server to discover the

AgentManaged Host			hosts installed with SuperDoctor5
Discovering IPMI Host	Agent	SSM Servers	Requests the SSM server to discover the
Discovering in wirriose	Agent	55101 561 7615	hosts or devices with IPMI capability
Discovering Agentless	Agent	SSM Servers	Requests the SSM server to discover the
Host	, gent		hosts without SuperDoctor5 installed.
Open SSM Web	Console	SSM Servers	Opens an IF browser and navigates to the
	console		web page of SSM server
Remote Desktop	Console	SSM Servers	Opens Windows remote desktop.
Computer Management	Console	SSM Servers	Opens Windows computer management
<u>compater management</u>	Console		console.
Ping	Agent	AgentManaged Hosts,	Initiates a ping to the hosts.
	U U	IPMI Hosts,	1 0
		and Agentless Hosts	
Open SD5 Web	Console	AgentManaged Hosts	Opens an IE browser and navigates to the
		5 5	web page of SuperDoctor5.
Update Firmware	Agent	IPMI Hosts	Requests the SSM server to update the BMC
	0		firmware for the hosts.
Update BIOS	Agent	IPMI Hosts	Requests the SSM server to update the BIOS
	U U		image for the hosts.
Delete Host	Agent	IPMI Hosts	Requests the SSM server to delete the
	U		hosts.
System Utilization	Console	IPMI Hosts	Requests the SSM server to return the
			system utilization for the host.
Power Info	Console	IPMI Hosts	Displays information on the health of the
			PMBus for the host.
Open KVM	Console	IPMI Hosts	Launches the KVM window console for the
			host.
Asset Info	Console	IPMI Hosts	Requests the SSM server to return the asset
			information for the host.
Open Web	Console	IPMI Hosts	Opens an IE Browser and navigates to IPMI
			web page for the host.
Export BIOS Cfg	Console	IPMI Hosts	Requests the SSM server to return the BIOS
			configuration for the host.
Export BMC Cfg	Console	IPMI Hosts	Requests the SSM server to return the BMC
			configuration for the host.
Export DMI Info	Console	IPMI Hosts	Requests the SSM server to return the DMI
			information for the host.
Export BMC Log	Console	IPMI Hosts	Requests the SSM server to return the BMC
			event log for the host.
Import BIOS Cfg	Console	IPMI Hosts	Requests the SSM server to update the BIOS
			configuration for the host.
Import BMC Cfg	Console	IPMI Hosts	Requests the SSM server to update the BMC
-			configuration for the host.
Import DMI Info	Console	IPMI Hosts	Requests the SSM server to update the DMI
			information for the host.
Clear BMC Log	Console	IPMI Hosts	Requests the SSM server to deletes the
-			BMC event log for the host.
Mount ISO Image	Console	IPMI Hosts	Requests the SSM server to mount an ISO

			image as virtual media for the host.
Unmount ISO Image	Console	IPMI Hosts	Requests the SSM server to remove ISO
			image as virtual media for the host.
System Information	Dashboard	AgentManaged/IPMI	Displays the detailed view of the system
		Hosts	

Table 5-10

5.4.2.1 Discovering SSM Servers

<u>File Edit View Go</u> Tas <u>k</u> s In Search ▼ _→ I	ols Help Focoge S Find Tasks 🕡 📮	
Monitoring <	Management Software (3)	 Tasks
Alicrosoft Windows Intern Alicrosoft Windows Sener	State Name IPMI Device IPMI Servers IPMI Hosts(SSM) IPMI Hosts(SSM) Ac Image: Healthy 10.138.160.134/SSM Web Image: Healthy Image: Healthy	Event View Performance View State View Network Vicinity Dashboard
Task Status Task Status Task Status Task Status The IPMI Device View The IPMI Group Diagram The Status Status The Active Alerts The IPMI Status Status The IPMI Status Status Status The IPMI Status Status The IPMI Status Status Status Status The IPMI Status Status Status Status Status Status Status The IPMI Status	C	Supermicro NT Service Software Tasks Discovering SSM Servers Restart Service
III > Show or Hide Views New View > New View > Monitoring Y Authoring		Stop Service Report Tasks Agent Counts by Date, Manageme Alert Logging Latency Alerts
Administration	< m > Detail View v	Availability Configuration Changes Data Volume by Management Pac Data Volume by Workflow and Ins

Figure 5-33

- **Task Type:** This is a console task associated with Supermicro SSM Connector.
- Description: Running this task will open a Discovering SSM Servers dialog box. In the dialog box you can scan SSM servers and edit monitoring list. The SSM Servers in the monitoring list will be discovered and monitored in Operations Manager Console. Please refer to <u>Discovering SSM</u>.
 <u>Servers</u>.
- Parameter:

Parameter	Description	Required	Option
	IP Address for scan SSM servers Single Scan (IP address)		
IP Address	IP Address 10 . 134 . 14 . 110	Yes	
	Rage Scan (IP Range)		
	IP Address 10 134 14 110 150		
Username	The SSM API account username	Yes	
Password	The SSM API account password		

5.4.2.2 Restart SSM Web

Monitoring Management Software (3) Tasks III Management Software State Name IPMI SSM IPMI Active Alerts Active Alerts IPMI IPMI	
Image: Management Software Task Status Image:	
Active Alerts Active Alerts Active Alerts Active Alerts	*
IPMI Group Diagram Active Alerts Navigation Navigation SSM Connector SSM Connector Wealthy SSM Connector SSM Servers Tasks	
Active Alerts SSM Servers Tasks	
B Host View	Г
Service View Discovering Agentiess Host	
SSM View Ssmthetic Transaction Control Discovering IPMI Host Control Discovering IPMI Host	
Show or Hide Views New Views Remote Desktop	E
Restart SSM Server	
Authoring Report Tasks	
Reporting	<u>_</u>
Administration	
Detail View View View	-

Figure 5-34

- Task Type: This is an agent task associated with SSM servers.
- **Description:** Running this task will remotely restart SSM Web Services of the selected SSM Server.
- Requirements:
 - This task only supports for SSM Servers that are installed on Windows.
 - The user must be provided with credentials with sufficient permission to run servicecontrol.
- Parameter:-

Parameter	Description	Required	Option
TimeoutSeconds	The amount of time in seconds for doing this task.	No	30

The figure for input user credentials

🚵 🦳 Run Task - Re	estart SSM Web
Run the task on these targets	🔞 Help
Target ☑ 10.136.160.128/SSM Web	Run Location SCOM2012DEMO.smcipmi.com;Supermicro.SSM.Con
Task Parameters	
Name TimeoutSeconds	Value 30
Override Task credentials	Task description
Use the predefined Run As Account User name : administrator Password : ••••••• Domain : SMCIPMI v	Remote restart SSM web service
Task confirmation Don't prompt when running this task in the future	Run Cancel

Figure 5-35

5.4.2.3 Restart SSM Server

File Edit View Go Tasks	To	ols Help Scope	Find 🚺 Tasks 🔞 🝦									
Monitoring	<	Management	Software (3)							>	Tasks	
🔢 Management Software	^	State	Name 🔺	IPMI Devices	SSM		D 🕢	IPMI Hosts(SSM)		Ż	0	
💑 Task Status		🕢 Healthy	10.138.160.134/SSM Web	Devices	ocrycity	🕢 Healthy		Healthy	1.		Entity Properties	*
IPMI IPMI Device View		🕢 Healthy	IPMI Connector	🕢 Healthy							Health Explorer	
IPMI Group Diagram		🕢 Healthy	SSM Connector		🕢 Healthy					Na	vigation ¥	
a 🚰 SSM											igation .	
Active Alerts										SSI	A Servers Tasks	
📑 Host View	=										Computer Management	
Service View	-										Discovering Agentless Host	
SSM Group Diagram											Discovering AgentManaged Hos	,t
Synthetic Transaction	~										Discovering IPMI Host	
< III >											Open SSM Web	
Show or Hide Views											Remote Desktop	
New View 🕨											Restart SSM Server	
Monitoring											Restart SSM Web	
Authoring										Rep	oort Tasks	
Reporting										-	Agent Counts by Date, Managen	ne –
×											Alert Logging Latency	
Administration		<		Ш					>		Alerts	
	•	Detail Viev	N						~		Availability	-
Ready	_											

Figure 5-36

- Task Type: This is an agent task associated with SSM servers.
- **Description:** Running this task will remotely restart SSM Server Services of the selected SSM Server.
- Requirements:
 - This task only supports for SSM Servers that are installed on Windows.
 - The user must be provided with credentials with sufficient permission to run service control.
- Parameter:

Parameter	Description	Required	Option
TimeoutSeconds	The amount of time in seconds for doing this task.	No	30

The figure for input user credentials

Ž. Run T	Fask - Restart SSM Server
Run the task on these targets	ep
Target ✓ 10.136.160.128/SSM Web	Run Location SCOM2012DEMO.smcipmi.com;Supermicro.SSM.Con
Task Parameters	
Name TimeoutSeconds	Value 30
Task credentials	Task description
Use the predefined Run As Account User name : administrator Password : Domain : SMCIPMI	Remote restart SSM server service
Task confirmation	e future Run Cancel

Figure 5-37

5.4.2.4 Discovering AgentManaged Host

File Edit View Go Tasks	Too	ols Help Scope	Find [Tasks 🔞 📮										
Monitoring	<	Management	Software (3)								> '	Tasks	
🗰 Management Software	^	State	Name 🔺	Ø	IPMI Deuises	SSM					Ż	0	
💑 Task Status		🕢 Healthy	10.138.160.134/SSM Web		Devices	Servers	🕢 Healthy	6	Hosts(33M) Healthy			Entity Properties	*
IPMI IPMI Device View		🕢 Healthy	IPMI Connector	Ĩ	Healthy							Health Explorer	
🚽 IPMI Group Diagram		🕢 Healthy	SSM Connector			🕢 Healthy					Nav	vigation Y	
a 🖓 ssm													
Active Alerts	_										SSN	A Servers Tasks	
Host View	=											Computer Management	
Service view											Discovering Agentless Host		
SSM Gloup Brogram											۲.	Discovering AgentManaged Host	Ł
Synthetic Transaction	~											Discovering IPMI Host	
< III >												Open SSM Web	
Show or Hide Views												Remote Desktop	
New View 🕨												Restart SSM Server	
Monitoring												Restart SSM Web	
Authoring											Rep	oort Tasks	
Reporting												Agent Counts by Date, Manager	ne
· · ·												Alert Logging Latency	
W Administration		<		- 1	II					>		Alerts	
	•	Detail Viev	N							~		Availability	-
Ready													

Figure 5-38

- Task Type: This is an agent task associated with SSM servers.
- **Description:** Running this task will request SSM Server to discover the hosts installed with SuperDoctor5.
- Parameter:

Parameter	Description	Required	Option
search_range	Four types of search mechanisms are supported:	Yes	
	an IP range		
	e.g., 10.134.14.13-10.134.14.100		
	an IP address		
	e.g., 10.134.14.110		
	a class C range		
	e.g., 10.134.14.*		
	domain name or host name		
	e.g., test.domain.com		
sd5port	The port number of SuperDoctor 5	No	5999
override	Forces the Discovery API to override the attributes of the	No	
	discovered hosts		
	override= <attribute1>,<value1>,<attribute2>,<value2></value2></attribute2></value1></attribute1>		
	e.g., override=check_interval,300,max_check_attempts,5		

	 Three attributes may be overridden: check_interval: Specifies the interval in seconds between the host checks and is executed to measure its status. retry_interval: Specifies the interval in seconds between the checks of a host in soft state. max_check_attempts: Defines the maximum retry counts of the host before a hard state change alert from an UP state to a non-UP state is triggered. More attributes are available to override if the NM enabled hosts are discovered (detect_nm=true) derated_ac_power: Specifies the power supply's derated AC power of the host. derated_dc_power: specifies the power supply's derated DC power of the host. max_ps_output: Specifies the maximum output of the power supply of the host. 		
ipmi_password	Defines the password to access IPMI BMC.	No	ADMIN
ipmi_id	Defines the user account to access IPMI BMC.	No	ADMIN
detect_nm	Directs the Discovery API to check if NM (Intel® Intelligent Power	No	true false
	Node Manager) exists on the discovered hosts.		
detect_ipmi	Directs the Discovery API to check if IPMI exists on the	No	true false
	discovered hosts		
clear_policy	Forces the Discovery API to clear all existing policies on the NM	No	true false
	of the discovered hosts.		

5.4.2.5 Discovering IPMI Host

File Edit View Go Tasks	Tools Help	Find 🚺 Tasks 🔞 📮							
Monitoring	Managemen	t Software (3)						 Tasks 	_
Management Software	State	Name 🔺	IPMI Devices	SSM Servers	🕢 Hosts(SSM)	IPMI Hosts(SSM)		kc 🗹 🔞	
Task Status	🕢 Healthy	10.138.160.134/SSM Web			🕢 Healthy			Entity Properties	*
IPMI Device View	🕢 Healthy	IPMI Connector	🕢 Healthy					🕋 Health Explorer	
🛁 IPMI Group Diagram	🕢 Healthy	SSM Connector		🕢 Healthy				Navigation 🗸	
▲ Continue al units								SSM Servers Tacks	
Host View									П
Service View								Discovering Agentless Host	
< SSM Group Diagram								Discovering AgentManaged Host	
SSM View	/							Discovering IPMI Host	
< III >								Open SSM Web	
Show or Hide Views								Remote Desktop	-
New View 🕨								Restart SSM Server	
Monitoring								Restart SSM Web	
Authoring	, 							Report Tasks	
Reporting								📔 Agent Counts by Date, Managem	e
								Alert Logging Latency	
Administration	<		Ш				>	Alerts	
	 Detail Vie 	w					~	🖌 📔 Availability	Ŧ
Ready									

Figure 5-39

- Task Type: This is an agent task associated with SSM servers.
- **Description:** Running this task will request SSM Server to discover the hosts or devices with IPMI capability.
- Parameter :

Parameter	Description	Required	Option
search_range	Four types of search mechanisms are supported:	Yes	
	an IP range		
	e.g., 10.134.14.13-10.134.14.100		
	an IP address		
	e.g., 10.134.14.110		
	a class C range		
	e.g., 10.134.14.*		
	domain name or host name		
	e.g., test.domain.com		
override	Forces the Discovery API to override the attributes of the	No	
	discovered hosts		
	override= <attribute1>,<value1>,<attribute2>,<value2></value2></attribute2></value1></attribute1>		
	e.g., override=check_interval,300,max_check_attempts,5		

	 Three attributes may be overridden: check_interval: Specifies the interval in seconds between the host checks and is executed to measure its status. retry_interval: Specifies the interval in seconds between the checks of a host in soft state. max_check_attempts: Defines the maximum retry counts of the host before a hard state change alert from an UP state to a non-UP state is triggered. 		
	 More attributes are available to override if the NM enabled hosts are discovered (detect_nm=true) derated_ac_power: Specifies the power supply's derated AC power of the host. derated_dc_power: specifies the power supply's derated DC power of the host. max_ps_output: Specifies the maximum output of the power supply of the host. 		
ipmi_password	Defines the password to access IPMI BMC.	No	ADMIN
ipmi_id	Defines the user account to access IPMI BMC.	No	ADMIN
detect_nm	Directs the Discovery API to check if NM (Intel [®] Intelligent Power Node Manager) exists on the discovered hosts.	No	true false
clear_policy	Forces the Discovery API to clear all existing policies on the NM of the discovered hosts.	No	true false

5.4.2.6 Discovering Agentless Host

File Edit View Go Tasks	To	ols Help Scope	Find [Tasks 🔞 🝦						
Monitoring	<	Management	Software (3)						 Tasks
🗰 Management Software 🍰 Task Status	^	State 🕢 Healthy	Name	IPMI Devices	SSM Servers	 Hosts(SSM) Healthy 	 IPMI Hosts(SSM) Healthy 		 Entity Properties
IPMI IPMI Device View IPMI Group Diagram		Healthy 🕢 Healthy	IPMI Connector SSM Connector	🕢 Healthy	🕢 Healthy				Health Explorer
 Active Alerts 		_ ,							SSM Servers Tasks
B Host View	≡								Computer Management
SSM Group Diagram	~								Discovering AgentManaged Host
Show or Hide Views									Open SSM Web
New View 🕨	_								Restart SSM Server
Monitoring									Restart SSM Web
Reporting									Agent Counts by Date, Manageme
🚳 Administration		<		Ш				>	Alert Logging Latency
	•	Detail View	N					*	Availability
Ready									

Figure 5-40

- Task Type: This is an agent task associated with SSM servers.
- **Description:** Running this task will request SSM Server to discover the hosts without SuperDoctor5 installed.
- Parameter:

Parameter	Description	Required	Option
search_range	Four types of search mechanisms are supported:	Yes	
	an IP range		
	e.g., 10.134.14.13-10.134.14.100		
	an IP address		
	e.g., 10.134.14.110		
	a class C range		
	e.g., 10.134.14.*		
	domain name or host name		
	e.g., test.domain.com		
override	Forces the Discovery API to override the attributes of the	No	
	discovered hosts		
	override= <attribute1>,<value1>,<attribute2>,<value2></value2></attribute2></value1></attribute1>		
	e.g., override=check_interval,300,max_check_attempts,5		
	Three attributes may be overridden:		

check_interval: Specifies the interval in seconds between the	
host checks and is executed to measure its status.	
 retry_interval: Specifies the interval in seconds between the 	
checks of a host in soft state.	
 max_check_attempts: Defines the maximum retry counts of 	
the host before a hard state change alert from an UP state to	
a non-UP state is triggered.	
More attributes are available to override if the NM enabled hosts	
are discovered (detect_nm=true)	
 derated_ac_power: Specifies the power supply's derated AC 	
power of the host.	
 derated_dc_power: specifies the power supply's derated DC 	
power of the host.	
• max_ps_output: Specifies the maximum output of the power	
supply of the host.	

5.4.2.7 Open SSM Web

File Edit View Go Tasks Tools Help											
Monitoring	<	Management Software (3)						 Tasks 			
III Management Software Isk Status IPMI IPMI Device View IPMI Group Diagram ISSM Active Alerts Image: Host View	Image: Second	State Healthy Healthy Healthy Healthy	Name 10.138.160.134/SSM Web IPMI Connector SSM Connector	 IPMI Devices Healthy 	SSM Servers	 Hosts(SSM) Healthy 	 IPMI Hosts(SSI Healthy 	(J) O Agentless Hosts(SSM	Nav SSN	Entity Properties Health Explorer rigation A Servers Tasks Computer Managemen	t
SSM View	~									Discovering Agentless H Discovering AgentMan Discovering IPMI Host Open SSM Web	Ho agi
New View >										Remote Desktop Restart SSM Server Restart SSM Web	
Authoring									Rep	Agent Counts by Date, Alert Logging Latency	Mi
Ready	•	< Detail Vie	w	III				> •		Alerts Availability	-

Figure 5-41

- **Task Type:** This is a console task associated with SSM servers.
- **Description:** Running this task will open an Internet Explorer browser and navigate to SSM web page of selected SSM server.
- **Parameter:** No parameter is required for this task.
5.4.2.8 Remote Desktop

File Edit View Go Tasks	To	ols Help												
Search 👻 📮	-	🖡 Scope 🎾	Find 🔽 Tasks 🕡 🝦											
Monitoring	<	Management	Software (3)									> 1	asks	
🔢 Management Software	^	State	Name 🔺	Ø) IPMI Devices	SSM	🕢 Hosts(SSM)		IPMI Hosts(SSM		jentless	2	•	
💑 Task Status		🕢 Healthy	10.138.160.134/SSM Web		Devices	ocrecity	🕢 Healthy	Ø) Healthy	/ 116	50(000	100	Entity Properties	*
▲ (inc. IPMI) IPMI Device \/ieuu		🕢 Healthy	IPMI Connector	Q	Healthy								Health Explorer	
Server Device View		🕢 Healthy	SSM Connector			🕢 Healthy						May	igation	
4 🚰 SSM												IVGV	igation	·
≽ Active Alerts												SSN	1 Servers Tasks	^
📑 Host View	=												Computer Manager	nent
Service View	-												Discovering Agentle	ess Ho
SSM Group Diagram													Discovering AgentN	lanag
Synthetic Transaction	×												Discovering IPMI He	ost
< III >													Open SSM Web	
Show or Hide Views													Remote Desktop	1
New View 🕨													Restart SSM Server	
Monitoring													Restart SSM Web	
Authoring												Rep	ort Tasks	^
Reporting													Agent Counts by Da	ite, Mi
Administration													Alert Logging Laten	cy
Administration		<			Ш						>		Alerts	
	•	Detail View	w								~		Availability	-
Ready														

Figure 5-42

- Task Type: This is a console task associated with SSM servers.
- **Description:** Running this task will open Windows Remote Desktop to connect to the selected SSM Server.
- Requirements:
 - This task only supports for SSM Servers that are installed on Windows.
 - The SSM server must enable the remote desktop connection.
 - Login credential is required for remote desktop to establish connection to SSM server.
- **Parameter:** No parameter is required for this task.

The figure shows the dialog that is requesting login credential.

	Windows Security
Enter your These credent	credentials ials will be used to connect to 10.136.160.128.
P	SMCIPMI\administrator
Р	Use another account
	Connect a smart card
Rem	ember my credentials
	OK Cancel

Figure 5-43

5.4.2.9 Computer Management

File Edit View Go Tasks T	ools Help									
Search 👻 📮	🙀 Scope 👂	Find [Tasks 🕡 🝦								
Monitoring <	Management	Software (3)						> T	asks	
Management Software Task Status Task Status PMI IPMI PMI Device View IPMI Group Diagram Active Alerts	State State Healthy Healthy Healthy	Name 10.138.160.134/SSM Web IPMI Connector SSM Connector	 IPMI Devices Healthy 	SSM Servers	 Hosts(SSM) Healthy 	 IPMI Hosts(SSM Healthy) O Agentless Hosts(SSM	Nav SSN	Entity Properties Health Explorer igation Servers Tasks	×
Hold View Host View Service View SSM Group Diagram SSM View SSM View	-								Computer Manageme Discovering Agentles Discovering AgentMa Discovering IPMI Hos	ent s Ho inagi t
Show or Hide Views New View > Monitoring									Remote Desktop Restart SSM Server Restart SSM Web	=
Authoring Reporting								Rep	ort Tasks Agent Counts by Dat Alert Logging Latency	• e, Mi /
Poody	< Detail Vie	w	Ш				>		Alerts Availability	Ŧ

Figure 5-44

- Task Type: This is a console task associated with SSM servers.
- **Description:** Running this task will open windows computer management console and connect to selected SSM Server.
- Requirements:
 - This task only supports for SSM Servers that are installed on Windows systems.
 - The SSM server must be in the same domain.
 - Some operation in computer management require the current user to have addition rights.
- **Parameter:** No parameter is required for this task.

5.4.2.10 Ping

	T 1								
File Edit View Go Tasks	loois	Help							
Search 👻 📮	S S	cope 👂 Find [] Tasks 🕜	Ŧ					
Monitoring	< H	ost View						 Tasks 	
Ga Supermicro Management Software	^	Host						Dests(SSM) Tasks	^ _
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check		属 Asset Info	
	=	Image: Constraint of the second secon	10.138.33.33 10.138.33.105 nost1 10.138.33.106 10.138.33.104 10.138.33.34 10.138.33.103	IPMI,NM IPMI,NM Agent Managed,Windows IPMI,NM IPMI,NM IPMI,NM IPMI,NM	10.138.33.33 10.138.33.105 host1 10.138.33.106 10.138.33.104 10.138.33.103	7 minutes ago 1 minute ago 5 minutes ago 1 minute ago 1 minute ago 7 minutes ago 1 minute ago		Clear BMC Log Delete Host Export BIOS Cfg Export BMC Cfg Export BMC Log Export BMC Log Export DMI Info Import BIOS Cfg Import BMC Cfg	E
System Center Advisor	~	• 10.138.33.3 Host Status Ser	3 vice Status Ho	ost Events License Keys				Mount ISO image	
New View 🕨		Status	W UP				*	Dpen Web	
Monitoring Authoring Reporting		Address LastCheck (UTC) StateType StatusInformation	10.138.33.33 2017/01/18 [1 HARD Pinging 10.13	0:10:59] 8.33.33 with 32 bytes of data	:		=	Ping Power Info System Utilization Unmount ISO image	e
in veporung	•		Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		Ŧ	Update BIOS	Ŧ
Ready									

- **Task Type:** This is a console task associated with <u>SSM monitored hosts</u>.
- **Description:** Running this task will initiate ICMP Ping request to the selected hosts.
- Parameter:

Parameter	Description	Required	Option
Count	the number of ICMP Echo Request messages to send	NO	3

5.4.2.11 Open SD5 Web

	Teel	liste.						
File Edit View Go Tasks	10015	нер						
Search 👻 📮	-	Scope 🔎 Find	🛃 Tasks 🕡	Ŧ				
Monitoring	< H	ost View					:	Tasks
🔢 Management Software	^	Host						2 0
		Health State	Host Name	Host Type	Address	Last Check	ון	State View
IPMI Device View		Ø	host1	Agent Managed, Windows	host1	2 minutes ago		Network Vicinity Dashboa
🛃 IPMI Group Diagram			10.138.33.104	IPMI,NM	10.138.33.104	5 minutes ago		System Information
a 👰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	5 minutes ago	_	
Active Alerts		l õ	10.138.33.103	IPMI,NM	10.138.33.103	5 minutes ago		Hosts(SSM) Tasks 🔥
Host View	=	l õ	10.138.33.105	IPMI.NM	10.138.33.105	5 minutes ago	1	Delete Host
Service View	_	Ŭ						🚺 Open SD5 Web
🗲 SSM Group Diagram								E Ping
SSM View	_							
Swithetic Transaction	*	Detail					1	Report Tasks
Show or Hide Views		Detail						📑 Agent Counts by Date, Mi
New View 🕨		😹 host1						Alert Logging Latency
		Host Status Se	rvice Status H	ost Events License Keys				🞴 Alerts
Monitoring		Status	ØUP			A.		📑 Availability
Authoring		Address	host1					Configuration Changes
>		LastCheck (UTC)	2017/01/13 [0)8:32:28]				Data Volume by Manager
Reporting		StateType	HARD					
🖄 Administration		Statusinformatio	'n					Data volume by Workflov Cuest Assisted
		<u> </u>	Pinging Host1	l.smcipmi.com [192.168.1.1] \	with 32 bytes of a	data: 🔻		Event Analysis
	•							📑 Health
Ready								

- **Task Type:** This is a console task which associated with AgentManaged hosts.
- **Description:** Running this task will open an Internet Explorer browser and navigate to SuperDoctor 5 web page of the selected host.
- **Parameter:** No parameter is required for this task.

5.4.2.12 Update Firmware

File Edit View Go Tasks Too	ols Help	1 Taulus						
Monitoring	F Scope >> Find		Ŧ				> Tacke	
A Controlling A Controlling Supermicro Management Software	Host						Hosts(SSM) Tacks	
💑 Task Status	Health State	lost Name	Host Type	Address	Last Check			
a 🙀 IPMI	 Image: Image: Ima	0.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
📴 IPMI Device View		0.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		耳 Clear BMC Log	
🗲 IPMI Group Diagram	Ø 1	nost1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
4 🚰 SSM	Ø ·	0.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		耳 Export BIOS Cfg	
Active Alerts		0.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
HostView	Ø.	0.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View		0.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram					2		Import BIOS Cfr	=
Sunthetic Transaction								
System Center 2012 Configu	Detail						Import BMC Ctg	
System Center Advisor	Detail						Import DMI Info	
< III >	▶ 10.138.33.3	3					耳 Mount ISO image	
Show or Hide Views	Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨	Status	ØUP					耳 Open Web	
	Address	10.138.33.33					Ping	
Monitoring	LastCheck (UTC)	2017/01/18 [1	0:10:59]			H	Power Info	
	StateType	HARD					Surtem Utilization	
Authoring	StatusInformation							
Reporting		Pinging 10.13	8.33.33 with 32 bytes of data	:			Unmount ISO image	
		Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		*	Update BIOS	
🥨 🔣 🔻							Update Firmware	-
Ready								

Figure 5-47

- Task Type: This is an agent task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to update BMC firmware for the selected hosts.
- Parameter:

Parameter	Description	Required	Option
Filename	Updates with the given BMC firmware file. (An absolute file path is	Yes	
	required.)		

5.4.2.13 Update BIOS

File Edit View Go Tasks	Tools	Help							
Search 👻 📮	Si Si	cope 👂 Find 🚺	🛛 Tasks 🕡	Ŧ					
Monitoring	< H	ost View						> Tasks	_
Supermicro Management Software	^	Host						Hosts (M22)	
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check			
🔺 👰 IPMI		\bigcirc	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
📑 IPMI Device View		\bigcirc	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log	
🚭 IPMI Group Diagram			host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 👰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Host View			10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	=		10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram								Import BIOS Cfg	=
Synthetic Transaction								Import BMC Cfg	
System Center 2012 Configured		Detail							
System Center Advisor	~	- 40 420 22 3						Import DMI Info	
< III >		10.158.55.5	55					Nount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨		Status	ØUP					耳 Open Web	-
	=	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	Power Info	
Authoring		State lype StatusInformation	HARD 1					System Utilization	
· · · · · · · · · · · · · · · · · · ·								耳 Unmount ISO image	
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data 1.138.33.33: bytes=32 time<1	: ms TTL=64		-	Update BIOS	
ية الآ	•							Update Firmware	-
Ready									

- Task Type: This is an agent task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to update BIOS image for the selected hosts.
- Parameter:

Parameter	Description	Required	Option
Filename	Updates with the given BIOS image file. (An absolute file	Yes	
	path is required.)		

5.4.2.14 Delete Host

File Edit View Go Tasks To	ools V Sc	Help	🖸 Tasks 🕡	÷						
Monitoring <	Но	ost View						 Tasks 		
Gupermicro Management Software		Host						Hosts(SSM) Tasks	^	*
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check				
a 🔓 IPMI		Ø	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info		
📑 IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log		Π
🛃 IPMI Group Diagram		Ø	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host		
a 🚰 SSM		Ø	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg		
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		属 Export BMC Cfg		
Host View		\checkmark	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log		
SSM Group Diagram		Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info		
SSM Group Diagram								Import BIOS Cfg	ļ	-
Synthetic Transaction								Import BMC Cfg		
🕨 📕 System Center 2012 Configu		Detail						Import DML Info		
System Center Advisor		a 10.138.33	.33					Mount ISO imag	je	
Show or Hide Views		Host Status S	ervice Status H	ost Events License Keys				属 Open KVM		
New View 🕨		Status	ØUP					耳 Open Web		-
		Address	10.138.33.33					Ping		
Monitoring		LastCheck (UTC) 2017/01/18 [1	0:10:59]			=	Power Info		
Authoring		StateType StatusInformati	HARD on					System Utilizatio	on	
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data .138.33.33: bytes=32 time<1	: ms TTL=64		+	Unmount ISO in	nage	
ې 👿 🕫			page from to					Update Firmwar	e	
Ready								_		



- Task Type: This is an agent task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to delete the selected hosts.
- **Parameter:** No parameter is required for this task.

5.4.2.15 System Utilization

File Edit View Go Tasks	Tools	Help								
Search 👻 📮	S S	cope 👂 Find [Tasks 🕡	Ŧ						
Monitoring	< H	ost View						> 1	asks	_
Supermicro III Management Software	^	Host						1	(C)	*
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check				
a 済 IPMI		O	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		-	Asset Info	
📑 IPMI Device View			10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago			Clear BMC Log	
🗲 IPMI Group Diagram		Ø 1	host1	Agent Managed, Windows	host1	5 minutes ago			Delete Host	
a 🚰 SSM		Ø ·	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg	
Active Alerts		Ø ·	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago			Export BMC Cfg	
Be Host View			10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago			Export BMC Log	
Service View	=	Ø ·	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago			Export DMI Info	
SSM Group Diagram						-			Import BIOS (fr	=
Synthetic Transaction									Import DIAS Cla	
System Center 2012 Configu		Detail							Import BIVIC Crg	
System Center Advisor	~							-	Import DMI Info	
< III >		10.138.33.3	33						Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status Ho	ost Events License Keys					Open KVM	
New View 🕨		Status	ØUP						Open Web	
	_	Address	10.138.33.33						Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=		Power Info	
	_	StateType State state	HARD						System Utilization	
Authoring		statusinformation	1						Upmount ISO impos	
Reporting			Pinging 10.13	8.33.33 with 32 bytes of data			-		Unmount ISO Image	
ö 📷	-	I	Reply from 10	138.55.33: bytes=32 time<1	ms IIL=04				Update 0105	
Deada								-8	opdate Firmware	Ŧ
ready										



- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return the system utilization of the selected host.
- Requirements:
 - The IPMI host must have Supermicro Thin-Agent-Service (TAS) installed on the system.
 - The service must in OK state.
- **Parameter:** No parameter is required for this task.

The figure shows sample resultant output.

•	Console Task Output	l	- 🗆 X
The task was completed.			
0.5.1			
Output:			
System Name 10.136.33.111 Message Supermicro Update Manager	(for UEFI BIOS) 1.5.0 (2015/07/27) (X86_64)		^
copyright(c)2015 Super Mit	to computer, file. All rights reserved		
Time			
Last Sample Time: 2016	-02-05_01:19:57		
os			
05 Name: CentOS			
OS Version: 6.5 x86_64			
===			=
CPU Utilization: 2.68	%		
=====			
HDD(1)	96		
HDD pamer /day/cda			
SMART Status: Ok			
Total Partitions: 6			
Partition Name	: /dev/sda1		
Utilization: Used Space: 0.	0.13 % 25 MB		
Total Space: 1	99.79 MB		
Partition Name	: /dev/sda2		
Utilization:	8.43 %		
Total Space: 4	84.22 MB		
[Partition(3)] Partition Name	: /dev/sda3		
Utilization: N	/A		
Total Space: S	A 30.83 GB		
[Partition(4)] Partition Name	/dev/manner/vg_tascimpilerenvironment_lv_root		
Utilization: 1	1.03 %		
Used Space: 5. Total Space: 4	16 GB 9.22 GB		
[Partition(5)]			~
<			>
t			
			Close

Figure 5-51

5.4.2.16 Power Info

File Edit View Go Tasks	Tools	Help							
Search 👻 📮	So So	ope 👂 Find 🚺	Tasks 🕡	Ŧ					
Monitoring	< He	ost View						 Tasks 	
Supermicro Management Software	^	Host						🖸 🕡 Hosts/SSM) Tasks 🛆	
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check			
4 👰 IPMI		\bigcirc	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
📑 IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log	
🚭 IPMI Group Diagram		\bigcirc	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 🚰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	=	Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram						-		Import BIOS Cfg	-
Synthetic Transaction								Import BMC Cfg	
System Center 2012 Configuration		Detail						Import Divic Cig	
System Center Advisor	~	- 40 420 22 5						Import DMI Into	
< III >		10.158.55.						Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨		Status	ØUP				*	耳 Open Web	
	=	Address	10.138.33.33				_	Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	Power Info	
Authoriza	_	StateType	HARD					System Utilization	
Authoring		Statusinioniation						Inmount ISO image	
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data 1.138.33.33: bytes=32 time<1	: ms TTL=64		*	Update BIOS	
ي ال	•							Update Firmware	-
Ready									

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will use SMCIPMITool to display information on the health of the PMBus of the selected host.
- Parameter:

Parameter	Description	Required	Option
Username	Username for access IPMI BMC	Yes	ADMIN
Password	Password for access IPMI BMC	Yes	ADMIN

The figure shows the sample resultant output.

	Console Task Output	_ _ ×
The task was completed. Output: [[slaveAddress = 78h] [Modul] Item Status Input Voltage Main Output Voltage Main Output Current Temperature 1 Temperature 2 Fan 1 Fan 2 Fan 2 Fan 2 Main Output Power Input Power Input Power Input Power Status Status [SlaveAddress = 7Ah] [Modul] Item Status	Console Task Output	
Input Voltage Input Current Main Output Voltage Main Output Voltage Temperature 1 Fan 1 Fan 2 Main Output Power Input Power PMBus Revision PWS Serial Number PWS Medule Number PWS Revision D	220.5 V 0.47 A 12.09 V 5.73 A 36/737 A 3728 RPM 4304 RPM 70 W 96 W 50022 P2K04CE05E80638 PWS-2K02P-1R REV1.1	
<		>
		Close

Figure 5-53

5.4.2.17 Asset Info

File Edit View Go Tasks	Tools	Help							
Carach W			1 Taala 🗿						
Search * 📮	: 케툰 이	cope 🎤 Fina 🔃		Ŧ					
Monitoring	< H	ost View						 Tasks 	
a 🚘 Supermicro 🎹 Management Software	^	Host						Hosts(SSM) Tasks	^ _
邊 Task Status		Health State	Host Name	Host Type	Address	Last Check			
a 旑 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Into	
📳 IPMI Device View		v	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Lear BMC Log	
🗲 IPMI Group Diagram		🥥 I	nost1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 🚰 SSM		Ø -	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts		Ø -	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Host View			10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	=		10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram						-		Import BIOS (fa	=
Synthetic Transaction									
System Center 2012 Configured System Center 2012 Center 2012 Configured System Center 2012 Center 2		Detail							
System Center Advisor	~	Detail						Import DMI Info	
< III >		10.138.33.3	3					耳 Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨		Status	ØUP					耳 Open Web	
	_	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			E	Power Info	
Authoring		StateType StatusInformation	HARD					System Utilization	
								耳 Unmount ISO image	
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data .138.33.33: bytes=32 time<1	: ms TTL=64		-	Update BIOS	
ية 🔅	*							Update Firmware	-
Ready									



- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return the asset information of the selected host.
- **Parameter:** No parameter is required for this task.

The figure shows sample resultant output.

Console Task Output	_ 🗆 X
The task was completed.	
Output:	
Version: 1.00 Serial Number: 0123456789123456	<u>^</u>
CPU	
[CPU(1)]	
Family: Intel(R) Xeon(R) processor	
Version: Genuine Intel(R) CPU @ 2.20GHz	
Enabled Cores: 10	
Total Cores: 10	
Memory	
[MEM(1)] N/A	
[MEM(2)] N/A [MEM(3)] N/A	
[MEM(4)] N/A [MEM(5)] N/A	
[MEM(6)] N/A	
Locator: DIMMD1	=
Manufacturer: Micron Manufacturing Date (YY/WW): 14/45	-
Part Number: 9ASF51272AZ-2G1A1 Serial Number: 0DAD7C4B	
Size: 4096 MB	
[MEM(8)] N/A	
Add-on Network Interface	
N/A	
	×
<	>
	<u>C</u> lose

Figure 5-55

5.4.2.18 Open KVM

File Edit View Go Tasks To	ools	Help								
Search 🏲 💡 🖡	Sc	ope 👂 Find [🛛 Tasks 🕡	Ŧ						
Monitoring <	Но	ost View						>	Tasks	
Gage Supermicro Management Software	-	Host						Ľ] 🕡	
Task Status		Health State	Host Name	Host Type	Address	Last Check				
a 🙀 IPMI		Ø	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago			🛓 Asset Info	
IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago			📱 Clear BMC Log	
🗲 IPMI Group Diagram		Ø	host1	Agent Managed, Windows	host1	5 minutes ago			Delete Host	
a 🚰 SSM		Ø	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg	
Active Alerts		Ø	10.138.33.104	IPMI.NM	10.138.33.104	1 minute ago		G	Export BMC Cfg	
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		G	Export BMC Log	
Service View		Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago			Export DMI Info	
SSM Group Diagram						,			Impart PIOS Cfa	=
Sunthetic Transaction										
System Center 2012 Configure		Detail							Import BMC Cfg	
System Center 2012 Conligu		Detail							Import DMI Info	
< III >	1	a 10.138.33.	33						📱 Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys					📱 Open KVM	
New View 🕨		Status	ØUP					G	📱 Open Web	
		Address	10.138.33.33						Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			Ξ		Power Info	
		StateType	HARD						Sustem Utilization	
Authoring		Statusinformatio	n							
Reporting			Pinging 10.13	8.33.33 with 32 bytes of data	:				Unmount ISO image	
		<u> </u>	Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		*		Update BIOS	
्राः 🔣 🔻									🚦 Update Firmware	-
Ready										

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will open KVM window of selected host.
- Parameter:

Parameter	Description	Required	Option
Username	Username for access IPMI BMC	Yes	ADMIN
Password	Password for access IPMI BMC	Yes	ADMIN

5.4.2.19 Open Web

File Edit View Go Tasks T	Tools	Help								
Search 👻 🚊	Si Si	cope 👂 Find 🚺	🛛 Tasks 🕡	=						
Monitoring	< H	ost View						>	Tasks	
Supermicro Management Software	^	Host						1) 🕡	A
ask Status		Health State	Host Name	Host Type	Address	Last Check			=	
a 🙀 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago			Asset Info	
📴 IPMI Device View			10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago			Clear BMC Log	
< IPMI Group Diagram			host1	Agent Managed, Windows	host1	5 minutes ago			Delete Host	
a 🚰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		5	Export BMC Cfg	
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		5	Export BMC Log	
Service View	=		10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		6	Export DMI Info	
SSM Group Diagram						-			Import BIOS Cfg	=
Synthetic Transaction	_								Import DIAC Cfa	
System Center 2012 Configu		Detail							Import BIVIC Crg	
System Center Advisor	~	40 400 00						-	Import DMI Info	
< III >		10.138.33.	33					-	Mount ISO image	
Show or Hide Views		Host Status Se	rvice Status H	ost Events License Keys					Open KVM	
New View 🕨		Status	ØUP					6	📱 Open Web	
	=	Address	10.138.33.33						Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	G	Power Info	
Authoring		State lype StatusInformatio	n n						System Utilization	
			Diamina 10.12	0.00.00					Unmount ISO image	
Reporting			Reply from 10	0.33.35 with 52 bytes of data 0.138.33.33: bytes=32 time<1	ms TTL=64		-		Update BIOS	
ي الله الله الله الله الله الله الله الل	-		• • •						Update Firmware	Ŧ
Ready										

Figure 5-57

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will open an Internet Explorer browser and navigate to IPMI web page of selected host.
- **Parameter:** No parameter is required for this task.

5.4.2.20 Export BIOS Cfg

File Edit View Go Tasks T	Tools	Help								
Search 👻 🚊	Sc.	ope 👂 Find 🚺	🛛 Tasks 🕡	-						
Monitoring	< Ho	ost View						>	Tasks	
Supermicro Management Software	^	Host						1 Ho	sts(SSM) Tasks	^ <u>^</u>
🛃 Task Status		Health State	Host Name	Host Type	Address	Last Check				
a 👰 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago			Asset Into	
IPMI Device View		\checkmark	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		-	Clear BMC Log	
IPMI Group Diagram		\checkmark	host1	Agent Managed, Windows	host1	5 minutes ago		Lį	Delete Host	
A 🚾 SSM		\checkmark	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg	
Active Alerts		\checkmark	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago			Export BMC Cfg	
B Service View	_	\checkmark	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago			Export BMC Log	
Service view	=	\bigcirc	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago			Export DMI Info	
SSM Croup Bragham									Import BIOS Cfg	
Synthetic Transaction	-								Import BMC Cfg	
System Center 2012 Configure		Detail							Import DML Info	
👂 📴 System Center Advisor 🔹	~	• 10 138 33 3	22							
< III >		S 10.150.55.							Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status He	ost Events License Keys				-	Open KVM	
New View 🕨		Status	ØUP				<u> </u>		Open Web	
	3	Address	10.138.33.33	0.40.503					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1 HARD	0:10:59]			=		Power Info	
Authoring		StatusInformation	naite						System Utilization	
Reporting			Pinging 10.13	8.33.33 with 32 bytes of data	:				Unmount ISO image	
		I	Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		Ŧ	-	Update BIOS	
ې 🖳 ۲	•							-	Update Firmware	-
Ready										

Figure 5-58

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return BIOS configuration of selected host.
- Parameter:

Parameter	Description	Required	Option
Save to	Specify a file path for saving the exported BIOS	Yes	
	configuration. (Absolute file path is required)		

The figure shows the sample resultant output.

	Console	e Task Output	
The task was complete	i.		
Output:			
<pre>#Please refer to [Advanced Boot Fr Quiet Boot=01 Addon ROM Display Bootup NumLock Si Wait For "F1" If INT19 Trap Respon Re-try Boot=00 Watch Dog Functif Power Button Function Power Button Function Power Button Function Power Button Function</pre>	SUM User's guide '4. eature] / Mode=01 arte=01 Error=01 hse=01 pn=00 tition=01	<pre>1 Format of BIOS Settin // Please enter the /* 01 (Force BIOS), /* 01 (0n), 00 (Off // 00 (Disabled), 00 /* 01 (Immediate), /* 00 (Disabled), 00 /* 01 (Insabled), 00 /* 01 (Insabled), 01 /* 01</pre>	gs Text File' fo ∧ value in 2 hexad 00 (Keep Curren 11 (Enabled) 00 (Postponed) 14 (Legacy Boot), 14 (Lenabled) 1, 00 (4 Seconds
[Advanced](PU Co Clock Spread Spee Hyper-Threading Cores Enabled=00 Execute Disable 1 PPIN Control=01 Hardware Prefetcl Adjacent Cache Pr DCU Streamer Prei DCU JP Prefetchei Direct Cache Acc X2APIC=00 CX2APIC=0PT_OUT F AES-NI=01 Intel Virtualizai	<pre>iter t035-02 ifguration] itrum=00 (ALL)=00 iit=01 efetch=01 efetch=01 eicther=01 =01 sis (DCA)=02 iag=00 iion Technology=01</pre>	<pre>// 00 (Stay 617; 01 // Please enter the // 01 (Disable), *00 // Please enter the // 00 (Unlock/Disabl // 001 (Enable), 00 // 01 (Enable), 00 // 01 (Enable), 00 // 01 (Enable), 01 // 00 (Disable), 01 // 00 (Disable), 01 // 00 (Disable), 01 // 00 (Disable), *01 // 00 (Disable),</pre>	value in 2 hexad (Enable) value in 2 hexad (Enable) (Disable) (Disable) (Disable) (Disable) (Enable), *02 (A (Enable) (Enable) (Enable)
[Advanced CPU Con Power Technology= Energy Performan Energy Performan Energy Efficient	nfiguration Advanced 01 ce Tuning=01 ce BIAS setting.=07 Turbo=00	Power Management Config // 00 (Disable), *01 // 00 (Enable), *01 // 00 (Performance), // *00 (Enable), 01	uration] . (Energy Efficie (Disable) *07 (Balanced P (Disable)
[Advanced CPU Con EIST (P-States)= Turbo Mode=01 P-State Coordinat [Advanced CPU Con	nfiguration Advanced)1 :ion=00 nfiguration Advanced	Power Management Config // 00 (Disable), *01 // 00 (Disable), *01 // *00 (HW_ALL), 01 Power Management Config	uration CPU P St (Enable) (Enable) (SW_ALL), O2 (SW guration CPU C St v
			>
			Close

Figure 5-59

5.4.2.21 Export BMC Cfg

File Edit View Go Tasks To	ools	Help							
Search 🗸 🔤	n. So	cope P Find	Tasks 🕡	-					
Monitoring 4	• Ho	ost View		*				 Tasks 	
Gag Supermicro Management Software	^	Host						Hosts (SSM) Tasks	
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check			
a 👸 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
IPMI Device View			10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		耳 Clear BMC Log	
< IPMI Group Diagram		Ø	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 🖓 SSM		Ø	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
B Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	≡	Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram						2		Import BIOS (fa	=
	_							Import blos cig	
System Center 2012 Configu		Detail						Import BMC Crg	
System Center Advisor	-							Import DMI Info	
<		a 10.138.33.3	33					💵 Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨		Status	ØUP					耳 Open Web	
	2	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			E	Rower Info	
Authoring		State lype Status Information	n n					System Utilization	
			Disation 10.12	0 00 00 data 00 data - 6 data				耳 Unmount ISO image	
Reporting			Reply from 10	0.55.55 with 32 bytes of data .138.33.33: bytes=32 time<1	: ms TTL=64		-	Update BIOS	
• 👿 🔅	•							Update Firmware	Ŧ
Ready									

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return BMC configuration of the selected host.
- Parameter:

Parameter	Description	Required	Option
Save to	Specifies a file path for saving the exported BMC	Yes	
	configuration. (Absolute file path is required)		

The figure shows the sample resultant output.

Console Task Output
The task was completed.
Output:
xml version="1.0"? <bmccfg></bmccfg>
<pre><!--Usage notes:--> <!--You can remove unnecessary elements so that--> <!--You can remove unnecessary elements so that--> <!--You can remove unnecessary elements so that--></pre>
Please refer to SUM User's guide '4.3 Format of the BMC Configur<br <stdcfg action="Change"></stdcfg>
Supported Action:None/Change Standard BMC configuration tables
<pre></pre>
Configuration for FRU data <boardmfgdatetime>1996/1/1 0:0</boardmfgdatetime>
YYYY/MM/DD HH:MM year range: 1996~2026
<pre><boardmtgname>Supermicro</boardmtgname> <!--string value--></pre>
<boardproductname></boardproductname> string value
<boardserialnum></boardserialnum>
<boardpartnum></boardpartnum>
<pre><productmfgname></productmfgname></pre>
<pre><!--string value--> <productname></productname></pre>
string value
string value
<pre><productversion></productversion> <!--string value--></pre>
<productserialnum></productserialnum>
<pre><!--string value--> </pre>
string value <chassistype>0x0</chassistype>
byte value, 0x00 to 0xFF
<chassispartnumber></chassispartnumber> string value
<chassisserialnumber></chassisserialnumber>
<sol action="Change"></sol>
Supported Action:None/Change
<pre><contiguration> <!--Configuration for SOL properties--></contiguration></pre>
< III

Figure 5-61

5.4.2.22 Export DMI Cfg

File Edit View Go Tasks	Tools	Help							
Search 👻 🚊	So So	cope 👂 Find	Tasks 🕡	-					
Monitoring	< He	ost View		*				 Tasks 	
Supermicro Management Software	^	Host						Derte (SSM) Tasks	A
🚵 Task Status		Health State	Host Name	Host Type	Address	Last Check			
4 🙀 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
📑 IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log	
🚭 IPMI Group Diagram		Ø	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 👰 SSM		Ø	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts		Ø	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	=	Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	1
SSM Group Diagram						-		Import BIOS Cfg	
Synthetic Transaction								Import BMC Cfg	
System Center 2012 Configure		Detail						Import bive erg	
System Center Advisor	~	- 40 420 22 5						Import DMI Info	
< III >		10.158.55.						Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				💽 Open KVM	
New View 🕨		Status	ØUP					耳 Open Web	
	=	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	Power Info	
Authoring		State Type StatusInformation	HARD 1					System Utilization	
- Reporting			Pinaina 10.13	8.33.33 with 32 bytes of data				耳 Unmount ISO image	
Acporting			Reply from 10	1.138.33.33: bytes=32 time<1	ms TTL=64		*	Update BIOS	
ية ي	•							Update Firmware	Ŧ
Ready									

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return DMI information of the selected host.
- Parameter:

Parameter	Description	Required	Option
Save to	Specifies a file path for saving the exported DMI	Yes	
	information. (Absolute file path is required)		

The figure shows the sample resultant output.

Console Task Output	-		x					
The task was completed.								
Output:								
<pre>// Usage notes: // Please refer to SUM User's guide '4.2 Format of // Notice for item value editing:</pre>	the	DMI	ir ^					
<pre>// Notice for item value editing: // 1. Use quotation pair " " to edit string-valued items Example: ""Supermicro"" => "Supermicro" // 2. Use \$DEFAULT\$ signature without quotation pair to load / string-valued items // Example: \$DEFAULT\$ => Default string value // 3. Do not use quotation pair for non-string-valued items // 4. You can remove unnecessary DMI items so that its value changed after an update. // Ex: // [BIOS Information] // Version</pre>								
You can remove Build Date but need	to k	eep	[E					
Version = 0001			1					
[BIOS Information] Version {BIVS} = "2.2" Build Date {BIBD} = "03/24/2015"			/					
<			>					
		Close						

Figure 5-63

5.4.2.23 Export BMC Log

File Edit View Go Tasks T	Fools	Help							
Search 👻 🚊	Sc.	ope 👂 Find 🚺	🛛 Tasks 🕡	-					
Monitoring	< Ho	ost View						 Tasks 	
Ganger Supermicro Management Software	^	Host						Hosts (MSSM) Tasks	•
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check			
a 👸 IPMI		Ø	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		耳 Clear BMC Log	
🗲 IPMI Group Diagram		Ø	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 🚰 SSM		Ø	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	=	Ø	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram						-		Import BIOS Cfg	=
Synthetic Transaction	_							Import BMC Cfg	
System Center 2012 Configu		Detail							
System Center Advisor	~	- 40 420 22						Import DMI Info	
< III >		10.158.55.	55					Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨		Status	ØUP					耳 Open Web	
	3	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	Rower Info	
Australian	-	StateType	HARD					System Utilization	
Authoring		Statusiniornatio						Inmount ISO image	
			Pinging 10.13	8.33.33 with 32 bytes of data			-	Undata RIOC	
10 III	-	<u>I</u>	Reply from 10	1.138.33.33: bytes=32 time<1	ms ITL=64		Ť		
₩ 4 8								Update Firmware	*
Ready									

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to return BMC event log of the selected host.
- Parameter:

Parameter	Description	Required	Option
Save to	Specifies a file path for saving the exported BMC event log.	Yes	
	(Absolute file path is required)		

The figure shows the sample resultant output.

📑 Console Task Output 🔄 🗖 🗙
The task was completed.
Output:
Event:1 Time:11/03/2015 06:05:22 Type:Fan Assertion: FAN Event = Lower Critical - going low Reading = 0 RPM, Threshold = 500 RPM
Event:2 Time:11/03/2015 06:05:22 Type:Fan Assertion: FAN Event = Lower Non-recoverable - going Reading = 0 RPM, Threshold = 300 RPM
Event:3 Time:11/03/2015 06:05:29 Type:Fan Deassertion: FAN Event = Lower Non-recoverable - goin Reading = 10900 RPM, Threshold = 300 RPM
Event:4 Time:11/03/2015 06:05:29 Type:Fan Deassertion: FAN Event = Lower Critical - going low Reading = 10900 RPM, Threshold = 500 RPM
Event:5 Time:12/29/2015 08:15:24 Type:Session Audit Assertion: Session Audit Event = Invalid Username or Event:6 Time:01/19/2016 06:21:50 Type:0S Boot Assertion: OS Boot Event = undefined
< III >
Close

Figure 5-65

5.4.2.24 Import BIOS Cfg

File Edit View Go Tasks	Tools	Help						
Search 👻 📮	Sc.	ope 👂 Find [Tasks 🕡	Ŧ				
Monitoring	< Ho	ost View						 Tasks
Supermicro Management Software	^	Host						Hosts(SSM) Tasks
🍒 Task Status		Health State	Host Name	Host Type	Address	Last Check		
4 🙀 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info
📑 IPMI Device View		Ø	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Liear BMC Log
iPMI Group Diagram			host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host
a 👰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg
Host View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log
Service View	=		10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info
SSM Group Diagram						-		Import BIOS Cfg
Synthetic Transaction								Import BMC Cfg
System Center 2012 Configure		Detail						
System Center Advisor	~	- 40 420 22 4						Import DMI Info
< III >		10.138.33.3	55					Mount ISO image
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM
New View 🕨		Status	ØUP				*	耳 Open Web
	=	Address	10.138.33.33					Ping
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			Ξ	Rower Info
Authoring	_	State lype StatusInformation	HARD 1					System Utilization
			Dinging 10.12	22 22 with 22 butos of data				耳 Unmount ISO image
Keporting			Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		-	Update BIOS
ي الله الله الله الله الله الله الله الل	•							Update Firmware 👻
Ready								

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to update BIOS configuration of the selected host.
- Parameter:

Parameter	Description	Required	Option
BIOS Config	Updates with the given BIOS cfg file. (An absolute file path	Yes	
	is required.)		

5.4.2.25 Import BMC Cfg

File Edit View Go Tasks T	Tools	Help							
Search 👻 🚊	Sc.	ope 👂 Find 🚺	Tasks 🕡	-					
Monitoring	< Ho	ost View						> Tasks	
Supermicro Management Software	^	Host						 Hosts(SSM) Tasks 	*
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check			
4 🙀 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
📳 IPMI Device View		\checkmark	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log	
🗲 IPMI Group Diagram			host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 👰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
B Host View		\bigcirc	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service view	=		10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram								Import BIOS Cfg	
Synthetic Transaction	-							Import BMC Cfg	
System Center 2012 Configu		Detail						Import DML lefe	
System Center Advisor	~	- 10 129 22 3	2						
< III >		JU. 150.55.5						Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status Ho	ost Events License Keys				💵 Open KVM	
New View 🕨		Status	ØUP				<u>^</u>	耳 Open Web	
	=	Address	10.138.33.33					Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=	Dower Info	
Authoring		StatusInformation						System Utilization	
- Reporting			Pinaina 10.13	8.33.33 with 32 bytes of data				耳 Unmount ISO image	
Reporting		1	Reply from 10	.138.33.33: bytes=32 time<1	ms TTL=64		-	Update BIOS	
ي ال	•							Update Firmware	-
Ready									

Figure 5-67

- **Task Type**: This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to update BMC configuration of the selected host.
- Parameter:

Parameter	Description	Required	Option
BMC Config	Updates with the given BMC configuration file. (An	Yes	
	absolute file path is required.)		

5.4.2.26 Import DMI Info

File Edit View Go Tasks Too	ols	Help								
Search 👻 🚊 🖣	Sc	ope 👂 Find 🚺	Tasks 🕡	-						
Monitoring <	Но	ost View						>	Tasks	
Gage Supermicro Management Software		Host						1	ets(SSM) Tasks	
🍒 Task Status		Health State	Host Name	Host Type	Address	Last Check		_		
a 👸 IPMI			10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		-	Asset Info	
IPMI Device View			10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		-	Clear BMC Log	
🗲 IPMI Group Diagram		\bigcirc	host1	Agent Managed, Windows	host1	5 minutes ago			Delete Host	
A 🚰 SSM			10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg	
Active Alerts			10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago			Export BMC Cfg	
B Host View			10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago			Export BMC Log	
Service View			10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago			Export DMI Info	
SSM View						-			Import BIOS Cfg	=
Synthetic Transaction									Import BMC Cfg	
System Center 2012 Configure		Detail								
System Center Advisor		- 40 430 33 3							Import DMI Info	
< III >		JU. 158.55.5						-	Mount ISO image	
Show or Hide Views		Host Status Ser	vice Status H	ost Events License Keys				-	Open KVM	
New View 🕨		Status	ØUP						Open Web	
		Address	10.138.33.33						Ping	
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=		Power Info	
Authoring		StateType StatusInformation	HARD						System Utilization	
			Dinging 10.13	9 22 22 with 22 butes of data					Unmount ISO image	
Reporting			Reply from 10	1.138.33.33: bytes=32 time<1	ms TTL=64		*		Update BIOS	
🌼 💽 🔻									Update Firmware	Ŧ
Ready										

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to update DMI information of selected host.
- Parameter:

Parameter	Description	Required	Option
DMIInfo File	Updates with the given DMI Info file. (An absolute file	Yes	
	path is required.)		

5.4.2.27 Clear BMC Log

File Edit View Go Tasks Too	ols	Help									
Search 👻 📮 🌆	Sci	ope 👂 Find 🚺	🔄 Tasks 🕡	Ŧ							
Monitoring <	Но	st View						>	Tasks		
Supermicro Management Software		Host						1 Ho	(2) Instantiation (SSM) Tasks	^	*
💑 Task Status		Health State	Host Name	Host Type	Address	Last Check		=	1		
a 済 IPMI		\bigcirc	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago			Asset Info		
📴 IPMI Device View		\checkmark	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		-	Clear BMC Log		
iPMI Group Diagram		\checkmark	host1	Agent Managed, Windows	host1	5 minutes ago			Delete Host		
a 🖓 SSM		\checkmark	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago			Export BIOS Cfg		
Active Alerts		\checkmark	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago			Export BMC Cfg		
Host View		\checkmark	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago			Export BMC Log		
SEM Crown Disgram			10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago			Export DMI Info		
SSM View		_							Import BIOS Cfg		=
Synthetic Transaction									Import DIdG Cfg		
System Center 2012 Configu		Detail									
System Center Advisor									Import DMI Info		
< III >		N 10.138.33.	33						Mount ISO image		í.
Show or Hide Views		Host Status Se	rvice Status H	ost Events License Keys					Open KVM		
New View 🕨		Status	W UP						Open Web	l	-
		Address	10.138.33.33						Ping		
Monitoring		LastCheck (UTC)	2017/01/18 [1	0:10:59]			=		Power Info		
Authoring		StateType StatusInformatio	n HARD						System Utilization		
									Unmount ISO image		
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data 1.138.33.33: bytes=32 time<1	: ms TTL=64		-		Update BIOS		
🌼 👿 🔻									Update Firmware		-
Ready											



- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to delete BMC event log of the selected host.
- **Parameter:** No parameter is required for this task.

The figure shows sample resultant output.

🗉 Console Task Output 🔄 🗖 🗙
The task was completed.
Dutes it
Status List: System Name Elapsed Status Exit Cod 10.138.33.106 00:00:10 SUCCESS
1 EXECUTIONS (WAITING: 0 RUNNING: 0 SUCCESS: 1 Done!
✓
Close

Figure 5-70

5.4.2.28 Mount ISO Image

File Edit View Go Tasks Tools	5 Help							
Search 👻 💷 🌆	Scope P Find	Tasks 🕡	-					
Monitoring <	Host View		*				 Tasks 	_
Supermicro Management Software	Host						Hosts(SSM) Tasks	
💑 Task Status	Health State	Host Name	Host Type	Address	Last Check			
a 🙀 IPMI	Ø ·	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info	
IPMI Device View		10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log	
< IPMI Group Diagram		nost1	Agent Managed, Windows	host1	5 minutes ago		Delete Host	
a 👰 SSM		10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg	
Active Alerts		10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg	
Be Host View		10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log	
Service View	Ø.	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info	
SSM Group Diagram					-		Import BIOS Cfr	=
Synthetic Transaction								
System Center 2012 Configu	Detail							
System center Edite coningation							Import DMI Info	
< III >	10.138.33.3	3					耳 Mount ISO image	
Show or Hide Views	Host Status Ser	vice Status H	ost Events License Keys				耳 Open KVM	
New View 🕨	Status	ØUP					耳 Open Web	
	Address	10.138.33.33					Ping	
Monitoring	LastCheck (UTC)	2017/01/18 [1	0:10:59]			E	Power Info	
	StateType States a formation	HARD					System Utilization	
Authoring	Statusinformation							
Reporting		Pinging 10.13	8.33.33 with 32 bytes of data	:				
····	I	Reply from 10	1.138.33.33: bytes=32 time<1	ms TTL=64		Ŧ	Update BIOS	
sak 181 ₹							Update Firmware	Ŧ
Ready								

Figure 5-71

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to Mount ISO image as virtual media to the selected host.
- Parameter:

Parameter	Description	Required
ISO Image URL	The URL used to access the shared image file SAMBA URL: "smb:// <host ip="" name="" or="">/<shared point="">/<file path="">" SAMBA UNC: "\\<host ip="" name="" or="">\<shared point="">\<file path="">" HTTP URL: "http://<host ip="" name="" or="">/<shared point="">/<file path="">"</file></shared></host></file></shared></host></file></shared></host>	Yes
ID	The specified ID to access the shared file	No
Password	The specified password used to access the shared file	No

The figure shows sample resultant output.



Figure 5-72

5.4.2.29 Unmount ISO Image

File Edit View Go Tasks Too	ols	Help						
Search 👻 📮 🖣	🖌 So	ope 👂 Find	🛃 Tasks 🔞	÷				
Monitoring <	Ho	ost View						> Tasks
Supermicro Management Software		Host						Hosts(SSM) Tasks
🍡 Task Status		Health State	Host Name	Host Type	Address	Last Check		
a 済 IPMI		\bigcirc	10.138.33.33	IPMI,NM	10.138.33.33	7 minutes ago		Asset Info
IPMI Device View		\checkmark	10.138.33.105	IPMI,NM	10.138.33.105	1 minute ago		Clear BMC Log
iPMI Group Diagram		\checkmark	host1	Agent Managed, Windows	host1	5 minutes ago		Delete Host
a 🙀 SSM		\checkmark	10.138.33.106	IPMI,NM	10.138.33.106	1 minute ago		Export BIOS Cfg
Active Alerts		\checkmark	10.138.33.104	IPMI,NM	10.138.33.104	1 minute ago		Export BMC Cfg
B Convice View		Ø	10.138.33.34	IPMI,NM	10.138.33.34	7 minutes ago		Export BMC Log
SSM Group Diagram		\checkmark	10.138.33.103	IPMI,NM	10.138.33.103	1 minute ago		Export DMI Info
SSM View								Import BIOS Cfg
Synthetic Transaction								Import BMC Cfg
▷ 📴 System Center 2012 Configu		Detail						Import DMI Info
System Center Advisor		a 10.138.33	.33					Mount ISO image
Show or Hide Views		Host Status S	ervice Status H	ost Events License Keys				Cpen KVM
New View 🕨		Status	ØUP				*	😱 Open Web
		Address	10.138.33.33					Ping
Monitoring		LastCheck (UTC) 2017/01/18 [1	0:10:59]			Ξ	Power Info
Authoring		StateType StatusInformati	on HARD					System Utilization
Reporting			Pinging 10.13 Reply from 10	8.33.33 with 32 bytes of data).138.33.33: bytes=32 time<1	: ms TTL=64		*	Unmount ISO image
🌼 👿 🔻								Update Firmware
Ready								

Figure 5-73

- **Task Type:** This is a console task associated with IPMI hosts.
- **Description:** Running this task will request SSM Server to remove ISO image as virtual media from the selected host.
- **Parameter:** No parameter is required for this task.

The figure shows sample resultant output.

Console Task Output	_ 🗆 X
The task was completed.	
Output:	
RUNNING FINTSHED Status List: System Name Elapsed Status Exit Cod	e ^
Summary: 1 EXECUTIONS (WAITING: 0 RUNNING: 0 SUCCESS: 1	FAILED: 0)
2016-01-29T10:26:21.625Z OK Key code status data	skid, 38],
	eronstaener
<	×
	Close

Figure 5-74

5.4.3 Groups

This management pack contains the following groups.

Name	Description					
Supermicro SSM Servers Group	Contains all Supermicro SSM Servers.					

Table 5-11

5.4.4 Monitors

This management pack monitors the health state of managed objects listed in following table.

Name	Target	States	Description
SSM Server Health Monitor	SSM Servers	Success	The SSM REST API has responses.
		Error	The SSM REST API has no responses.
Host Health Monitor(SSM)	SSM\Hosts	Success	The host state is UP
	and Agentless)	8 Error	The host state is DOWN/UNREACHABLE.
Service Health Monitor(SSM)	SSM\Services	Success	The service state is OK.
		Serror	The service state is CRITICAL/UNREACHABLE.
Host Node Key State Monitor	SSM\Hosts\NodeKey	Success	The NodeKey is valid.
		Error	The NodeKey is not valid.
SSM Servers Group Health	SSM Servers Group	Rollup(WorstOf)	This rollup state is from the worst case
Monitor			of SSM Servers.

Table 5-12

5.4.5 System Information Dashboard

We have customized a dashboard to provide more detailed system information of the host.

The System Information contains the following pages. Note that some of the pages may not show at the same time, which depends on the amount of information collected from SSM server.

- BIOS
- Baseboard
- Computer System
- Disk Drive
- Memory
- Network
- Processor
- Operating System

The figure shows sample screenshot for open System Information Dashboard.

File Edit View Go Tasks	Tool	s Help							
Search 👻 🖕	-	Scope	🗵 Tasks 🕡	Ŧ					
Monitoring	<	Host View						 Tasks 	
 Microsoft Windows Server Retwork Monitoring 	^	Host							
Derations Manager		Health State	Host Name	Host Type	Address	Last Check		Tasks	^
a 🚰 Supermicro			10.138.33.106	IPMI,NM	10.138.33.106	2 minutes ago		Entity Properties	
👯 Management Software			10.138.33.105	IPMI,NM	10.138.33.105	2 minutes ago		🙀 Health Explorer	
🛃 Task Status		Ø	host1	Agent Managed, Windows	host1	2 minutes ago		Navigation	-
	H		10.138.33.34	IPMI,NM	10.138.33.34	3 minutes ago		ivavigation	
IPMI Device View			10.138.33.103	IPMI,NM	10.138.33.103	2 minutes ago		Alert View	
A Constant C			10.138.33.104	IPMI,NM	10.138.33.104	2 minutes ago		< Diagram View	1
Active Alerts	_		10.138.33.33	IPMI,NM	10.138.33.33	3 minutes ago		Event View	
Host View								Performance View	
Service View	1							State View	
🚭 SSM Group Diagram								Network Vicinity Dash	hboard
📰 SSM View		Detail						System Information	- 4
Synthetic Transaction		- 10 120 22	106					Sa System mornation	
👂 靖 System Center 2012 Configu	u 🗸	10.156.55	.100					Hosts(SSM) Tasks	^
< III >		Host Status Se	ervice Status H	ost Events License Keys				Asset Info	
Show or Hide Views		Status	ØUP				<u>.</u>	Clear BMC Los	
New View 🕨		Address	10.138.33.106					Delete Hert	
		LastCheck (UTC)) 2017/01/19 [0	9:12:01]					
Monitoring		Statelype	HARD					Export BIOS Cfg	
	_	Statusiniormati	on					Export BMC Cfg	
Authoring			Pinging 10.13	8.33.106 with 32 bytes of dat	a:			Export BMC Log	
Reporting			Reply from 10 Reply from 10	1.138.33.106: bytes=32 time< 1.138.33.106: bytes=32 time<	1ms IIL=64 1ms TTL=64			Export DMI Info	
(A. 17	•	I	1 ' '	,				Import BIOS Cfg	
W 44	8							Import BMC Cfa	*
Keady									

Figure 5-75

The figure shows sample screenshot for System Information Dashboard.

File Edit View Go Tasks Tools Help	Find D Tacke	
File Edit View Go Tasks Tools Help Search Computer Scope P System Information System Information A Hardware BIOS BaseBoard Computer System Memory Network Processor Software Operating System	Find Tasks a Host Name: 10.138.33.106 BIOS BIOS BIOS Manufacturer Version 3.0b ReleaseDate 08/24/2016 SMBIOSMajorVersion SMBIOSMinorVersion SMBIOSPresent SMBIOSPresent	 ▶ Tasks ☑ ☑

Figure 5-76
Appendix A Operations Manager Console

The following figure is Operations Manager Console. The UI working area consists of several blocks:

- Navigation Pane
- Dashboards (Including Monitoring, Authoring, Reporting, Administration and My workspace)
- Result Pane
- Detail Pane
- Tasks Pane

These block names will be used to describe the location in this document.



Figure A-1

Appendix B Configuring User Privileges

To create secure user roles and restrict the rights of users as operators, follow these steps.

1. Create a new operator user account in the domain controller and add it to the Domain Users group.



Figure B-1

2. In the Operations Manager console, switch to the **Administration** dashboard. In the navigation tree, right-click the **Security** node, select **User Roles**, select **New User Role** and then click **Operator**



Figure B-2

3. On the General Properties page, name the User role, e.g. "SMC_Operator". In the User role members, click the **Add** button to add users.

General Properties			
General Properties			🕢 Help
Group Scope	General		
Tasks			
Dashboards and Views	User role name:	User role members:	
Summary	SMC_Operatory	Add X Remove	
	Description	Member Name Domain SRV_OM2@smcipmi.com	
	<u> </u>		1
	✓		
	Profile:		
	Operator		
	Profile description:		
	The Operator profile includes a set of privileges designed for users that need access to Alerts, Views and Tasks. A role based on the Operators profile grants members the ability to		
	interact with Alerts, execute Tasks and access Views according to their configured scope.		
	×		
		< Previous Next > Cre.	ate Cancel

Figure B-3

4. On the Group Scope page, select groups that the operator has monitor rights.

General Properties Group Scope	Approve groups	Ø H
Tasks Dashboards and Views	Members of this user role can monitor objects in approved groups.	A View group members
	SQL Server Databases SQL Server Databases SQL Server With Comp Group SQL Server Mirroring Components SQL Server Mirroring Components SQL Server Mirroring Components SSAS Instance Group SSAS Instance Group SSAS Instance Group Systemicro.Server.SMCIAlInstanceGroup Systemicro.SMC Devices Group Supermicro.SMC Devices Group UNIVERSITY Computer Group UNIVERSITY Computer Group WMM 2008 Self Service Server Group WMM 2008 Self Service Server Group WMM 2008 Self Service Server Group Windows Clent Instances Group Windows Server Computer Group	

Figure B-4

5. On the Tasks page, change the option to **Only tasks explicitly added to the "Approved tasks' grid are approved"** and then manually add the tasks that can be used by operators.

*	Create User Role Wizard - Operator Profile	-
Tasks		
General Properties		🖗 Help
Group Scope	Approve tasks	
Tasks		
Dashboards and Views	Members or this user role can execute approved tasks.	
Summary	Only tasks explicitly added to the 'Approved tasks' grid are approved	
	Add. X Remove	
	Approved tasks:	
	Task Management Patk	
	Task description:	
		~
	Note: Console tasks cannot be scoped with user roles.	
		C
	<u> </u>	Lancel

Figure B-5

6. On the Dashboard and Views page, change the option to "**Only the dashboards and views selected in each tab are approved**", and manually select the views for the operators.

2	Create User Role Wizard - Operator Profile	×
Dashboards and Vi	ews	
General Properties		Help
Group Scope	Approve dashboards and views	
Tasks Dashboards and Views	Members of this user role can see approved views and dashboards. Limiting access to views and dashboards does not limit access to the underlying data. Similarly, granting access to views does not expand the user role scope on manag objects.	: jed
Summary	All dashboard and views are automatically approved	
	Only the dashboards and views selected in each tab are approved	
	Monitoring Tree Task Pane By selecting any dashboard, members of this user role will have access to data in the data warehouse. Approved dashboards and yiews:	< III >



7. On the Summary page, review the user role properties and click the **Create** button to finish.

General Properties			🔞 He
Group Scope	Summary		
Tasks	User role properties:		
Dashboards and Views	Property Name	Property Value	
Summary	User role name	SMC_Operator	
	🕵 Profile	Operator	
	🧟 User role members	SRV_OM2@smcipmi.com	
	🖅 Group Scope	omg	
	Tasks	None	
	🚖 Dashboards and Views	Active Alerts	
		All Event View SSM Group Diagram	
		SSM Servers	
		Task Status	
		Host View	
		License	
		Service View	
	🚖 Task Pane Dashboards	None	

Figure B-7

Appendix C Health States Icons

In Operations Manager Console, the following icons are used to indicate specific state.

lcon	Meaning
0	Unknown, unmonitored (blank)
\bigcirc	Success, health is OK (green)
	Warning (yellow)
8	Critical (red)
\otimes	Maintenance mode (gray)
\checkmark	Out of contact (gray)

Table C-1

(Source: Using Health Explorer in Operations Manager https://technet.microsoft.com/en-us/library/hh212697(v=sc.12).aspx)

Appendix D Tasks

Tasks in System Center 2012: Operations Manager can be run by the user on demand. Depending on the kind of task, the action may run either on the user's local workstation or on one or more specified agents.

- Console Tasks: Runs on the user's workstation using the current user's credentials.
- Agent Tasks: Rus on the agent computer using the credentials of the specified user profile.

(Source: Tasks <u>https://technet.microsoft.com/en-us/library/hh457605(v=sc.12).aspx</u>)

Appendix E Personalize View

In Operations Manager Console, the displayed columns of some views can be customized to meet your need. To customize the view, follow these steps:

1. Select a view, e.g. Management Software.

File Edit View Go Tasks	Too	ls Help			
Search 👻 📮	-	Scope 👂 Find 🖸 Tasks 🔞 🝦			
Monitoring	<	Management Software (3)	> 1	asks	
4 🚰 Supermicm	^	🔍 Look for: Find Now Clear	7	•	
🚻 Management Software		State Display Name A PIPMI SSM PHosts(SSM) PIPMI Agentle:	-	Stop Maintenance Mode	*
Task Status		Devices Servers Hosts(SSM) Hosts(SSM) Hosts(SSM) Hosts(SSM)		Stop Maintenance Mode	
▲ Liga IPMI		Healthy 10,156,160,154,55M web Thealthy Planty Planty		Personalize view	
IPMI Device View		Healthy IPMI Connector Healthy	Tasl	(S ¥	
A C SSM		Healthy SSM Connector			
Active Alerts			Nav	igation 🗸	
Host View			SSN	1 Servers Tasks 🔥	
Service View	=			Computer Management	
< SSM Group Diagram			_		
SSM View				Discovering Agentiess Hos	
D 🙀 Synthetic Transaction			-8	Discovering AgentManage	Ε
🕨 📴 System Center 2012 Configu				Discovering IPMI Host	
System Center Advisor	~			Open SSM Web	
				Remote Desktop	
Show or Hide Views				Restart SSM Server	
New View 🕨				Restart SSM Web	
Monitoring			D	and Table	
Monitoring			Кер	ort lasks	-
📝 Authoring				Agent Counts by Date, Ma	
Reporting				Alert Logging Latency	
· · · ·				Alerts	
ي ال	*	Detail View 🗸		Availability	Ŧ
Densky					- · ·

Figure E-1

2. In Tasks Pane, click Personalize View....

File Edit View Go Tasks	Toc	ls Help										
Search 👻 📮	-	Scope 🔎	Find 🗵 Tasks 🕡 🤤									
Monitoring	<	Managemen	nt Software (3)							× 1	asks	
a 🕝 Supermicro	^	🔍 Look foi	n			Find M	Now Clear			2	•	
🔢 Management Software		State	Display Name		Ø	SSM	Hosts(SSM)	IPMI	O Agentle	18	Stop Maintenance Mod	de 🔺
a 🕼 IPMI		🕢 Healthy	10.138.160.134/SSM Web	Devices		Servers	Healthy	Husts(33W)	- H036(3		Personalize view	1
IPMI Device View		Healthy	IPMI Connector	🕢 Healthy				-				-
iPMI Group Diagram		🕢 Healthy	SSM Connector		Ø	Healthy				Task	.s 🔹	<u> </u>
⊿ 🚰 SSM										Nav	igation 🗸	
Active Alerts										SSN	Servers Tasks	
Service View	≡										Computer Managemen	.+
< SSM Group Diagram											Discovering Agentless (Hos
SSM View											Discovering AgentMan	age =
Synthetic Transaction System Center 2012 Configu											Discovering IPMI Host	
System Center Advisor	~										Open SSM Web	
< III >											Remote Desktop	
Show or Hide Views											Restart SSM Server	
New View 🕨											Restart SSM Web	
Monitoring										Rep	ort Tasks	
Authoring											Agent Counts by Date,	Ma
											Alert Logging Latency	
incporting		<		ш					>		Alerts	
<u>ت</u> ش	•	Detail Vie	2W						*		Availability	Ŧ
Ready												

Figure E-2

3. Check the items in Columns to display

Personalize View					
Columns to display	Sort columns by				
State	Display Name				
✓ Display Name Maintenance Mode					
Name					
Path IPMI Devices	Group items by				
SSM Servers					
✓ Hosts(SSM) ✓ IPMI Hosts(SSM)	(None)				
Agentless Hosts(SSM) AgentManaged Hosts(SSM)	Then by:				
	(None)				
	Then by:				
	(None) Seconding				
	Reset to Default OK Cancel				

Figure E-3

4. Click **OK** to save the settings

r ci	Solidize View
Columns to display ✓ State ✓ Display Name Maintenance Mode	Sort columns by Display Name ♥ ● Ascending ● Descending
□ Name □ Path ☑ IPMI Devices ☑ SSM Servers ☑ Hosts(SSM) ☑ IPMI Hosts(SSM) ☑ AgentManaged Hosts(SSM)	Group items by (None) Ascending Descending Ihen by: Ascending Descending [None) Ascending Descending Descending Descending Descending Descending
	Reset to Default OK Cancel

Figure E-4

Contacting Supermicro

Headquarters

Address:	Super Micro Computer, Inc. 980 Rock Ave. San Jose, CA 95131 U.S.A.
Tel:	+1 (408) 503-8000
Fax:	+1 (408) 503-8008
Email:	<u>marketing@supermicro.com</u> (General Information) <u>support@supermicro.com</u> (Technical Support)
Web Site:	www.supermicro.com
Europe	
Address:	Super Micro Computer B.V.
	Het Sterrenbeeld 28, 5215 ML
	's-Hertogenbosch, The Netherlands
Tel:	+31 (0) 73-6400390
Fax:	+31 (0) 73-6416525
Email:	sales@supermicro.nl (General Information)
	<pre>support@supermicro.nl (Technical Support)</pre>
	<pre>rma@supermicro.nl (Customer Support)</pre>
Asia-Pacific	
Address:	Super Micro Computer, Inc.
	3F, No. 150, Jian 1st Rd.
	Zhonghe Dist., New Taipei City 235
	Taiwan (R.O.C)
Tel:	+886-(2) 8226-3990
Fax:	+886-(2) 8226-3992
Web Site:	www.supermicro.com.tw
Technical Suppo	ort:
Email:	support@supermicro.com.tw
Tel:	+886-(2)-8226-3990