

# **Management Plugin for SCOM/SCCM**

# **User's Guide**

Revision 1.0.0.160520

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#### **Software Revision History**

Date	Rev	Description
2016/05/20	1.0.0	Initial version.

#### **Document Revision History**

Date	Rev	Description
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# 1. Overview

Data Centers use Microsoft SCOM as a single point of management. The management plugin for SCOM/SCCM should be integrated with the current SCOM interface.

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

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

# 2. Prerequisites and Installation

## 2.1 Supported Operation System

• Windows Server 2012 R2

### 2.2 System Requirements

- Windows Roles
  - o .Net framework 3.51
  - o .Net framework 4.5
  - .Net HTTP Activation 4.5
  - o Windows Process Activation Service
  - o Process Model
  - o Configuration APIs
- Windows features
  - Web Server(IIS)
  - o Application Server
- Windows Services
  - o Web Server Default Document Directory Browsing HTTP Errors
  - Static Content HTTP Logging Request Monitor
  - Static Content Compression
  - Request Filtering
  - o Windows Authentication
  - o .NET Extensibility 3.5
  - o .NET Extensibility 4.5
  - o IIS ASP.NET 3.5
  - IIS ASP.NET 4.5
  - ISAPI Extensions
  - o ISAPI Filters
  - o Management Console
  - o ASP.NET 4.5
  - o IIS 6 Metabase Compatibility
  - o Application Development
  - .NET Framework 4.5
- SQL Server 2012 SP1
- System Center 2012 R2 Operation Manager

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### **2.3 Installing Management Plugin for SCOM/SCCM**

- 1. Log in as the administrator.
- 2. Run **Supermicro\_DCMS\_SCOM\_ManagementPack\_1.0.0.160520\_Installer.exe** to start the installation.
- 3. Click Browse to select an installation target folder and then click Install to continue.





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

🛱 Supermicro DCMS - SCOM management pa 💻 🗖 🗙
Completed
Show <u>d</u> etails
Cancel Nullsoft Install System v3.0b3 < Back

Figure 2-2

#### 2.4 Starting the SCOM Console

The management plugin for SCOM/SCCM is integrated with System Center 2012 R2 Operation manager, and it will start automatically after the plugin (\*.mpb) file is imported. To interact with SCOM interface, follow the steps below:

1. Connect to the SCOM host via Remote Desktop: mstsc /v:10.136.176.153:3389"

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2. Log in with Username & Password.

Windows Security
Enter your credentials These credentials will be used to connect to 10.136.176.153.
SMCIPMI\administrator Password
Use another account
Connect a smart card
Remember my credentials
OK Cancel

Figure 2-4

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





4. Click **Monitoring** in the left panel and locate the "Supermicro DCMS" folder to use.



Figure 2-6

# 3. Settings and Configurations

#### **3.1 Configuring Run as Account**

- 1. Open the SCOM operation console/Administration dashboard.
- 2. In the left menu, click Run As Configuration/Profiles.
- 3. In the Profiles list, locate the file "Supermicro.Server.DMSAccount" and open its Properties.
- 4. In the Run As Profile Wizard window, click Run As Accounts.
- 5. Click Add and add the "local system windows account" to the list.

魏		Run As Profile Wizard							
Run As Accounts									
Introduction									
General Properties	Add Run As accounts								
Run As Accounts	Add a Run As account to t	his Run As pro	file. Additional Run As	accounts can	be added to manage specific (				
Completion	groups, or objects.				5 1				
	<u>R</u> un As accounts:								
	Account Name	Association	Used For	Class	Path				
	🔟 Local System Windo	Class	All targeted objects	Object					

Figure 3-1

6. Click Save and then click Close to finish.

#### **3.2 Configuring SSM Server List**

- 1. Open the SCOM operation console/Monitoring dashboard.
- 2. Find the Supermicro DCMS/SSM Group Diagram.
- 3. In the diagram, select Supermicro SSM Device Group, and then click Profile Management.



Figure 3-2

4. In the SSM Device Management" dialog box, enter the information and click **Add** to add the SSM Servers to the manage list.

0	SSM Device Management	x
IP Address		
☐ Not test connection Username UserApp1Key Scan Result:	Password Scan Add Delete	
IP User	Pessword	_
Monitoring List:	Password	
192168.1.2 UserApp1Key 172.31.1.175 UserApp1Key	ZgwGl6Z/J ZdeNbUDG	

Figure 3-3

5. Wait a few minutes and then refresh the SSM Group Diagram to make sure the SSM Servers have been discovered.



Figure 3-4

# **4 Software Usage**

A Management Plugin for SCOM/SCCM is integrated into the SCOM operation console and allows SCOM to collect the monitoring data from SSM and provide management functions.

## 4.1 Inventory (Host/Service View)

The Host View lists all managed hosts in a single state view.

Host View - omg - Operations Manager								_ <b>D</b> ×
Eile Edit View Go Tasks Iools Help								
Search ▼ 👙 👫 Scope 🔎 Find	🛛 Tasks 🔞 💡							
Monitoring	< Host View (9)							<ul> <li>Tasks</li> </ul>
Microsoft Audit Collection Services	🔨 🔍 Look for:			Find Now	Clear			2 😧
Microsoft Windows Client	State	Host Status	😣 Services	Host Name 👒	Host Type	Address	Last Ch	State Actions
Microsoft Windows Server	Healthy	UP		tw-jimyang-nb	Agentless	192.168.1.1	2016-01	
Network Monitoring	Healthy	UP		smciom01	Agentless	192.168.1.84	2016-01	Start Maintenance Mode
Derations Manager	Healthy	UP	🐼 Critical	172.31.1.176	Agent Manage	172.31.1.176	2016-01	Edit Maintenance Mode Settings
COM Course Disease	Healthy	UP	🐼 Critical	10.136.33.91	IPMI,NM	10.136.33.91	2016-01	Stop Maintenance Mode
SSM Group Diagram	🐼 Critical	DOWN	🔞 Critical Crit	tical ).136.33.34	IPMI,NM	10.136.33.34	2016-01	Personalize view
A C SSM	🛓 🕢 Healthy	UP	🐼 Critical	10.136.33.33	IPMI,NM	10.136.33.33	2016-01	
Host View	🐼 Critical	DOWN	🐼 Critical	10.136.33.104	IPMI,NM	10.136.33.104	2016-01	
Service View	🐼 Critical	DOWN	🔞 Critical	10.136.33.103	IPMI,NM	10.136.33.103	2016-01	
Synthetic Transaction	🔄 🕢 Healthy	UP	Healthy	10.134.12.58	IPMI	10.134.12.58	2016-01	
System Center Advisor	~							
Show or Hide Views	<			ш			>	
New View 🕨	Detail View						~	
Monitoring	i) Select a	n item in the view :	above to displavits d	etails.				
Authoring	- ~							
Reporting								
🚳 Administration								
My Workspace								
	-							
Death								

Figure 4-1

The Service View lists all managed hosts in a single state view.

		Service Vie	w - omg - Operations Manager		_ <b>D</b> X
<u>File Edit View Go Tasks Tools H</u> elp					
Search 👻 📮 🙀 Scope 👂 Find	] T <u>a</u> sks 😢 💡				
Monitoring	Service View (30	))			<ul> <li>Tasks</li> </ul>
Microsoft Audit Collection Services	Look for:		Find Now	Clear	2 0
D A Microsoft Windows Client	State	Service Status	Service Name Host Name	Last Check	Carlo Antina A
Microsoft Windows Server	Healthy	ОК	System inform 172.31.1.176	2016-01-29T05:	- State Actions
Network Monitoring	Healthy	OK	Storage health 172.31.1.176	2016-01-29T05:	Start Maintenance Mode
Derations Manager	🐼 Critical	CRITICAL	IPMI System Inf 10.136.33.34	2016-01-29T05:	Edit Maintenance Mode Settings
Supermicro DCMS	🐼 Critical	CRITICAL	IPMI System Inf 10.136.33.103	2016-01-29T05:	15 Stop Maintenance Mode
SSM Group Diagram	Healthy	ок	IPMI System Inf 10.134.12.58	2016-01-29T05:	Personalize view
ttt SSM Servers	Healthy	ок	IPMI System Inf 10.136.33.33	2016-01-29T05:	
a lost View	Critical	CRITICAL	IPMI Sensor He 10.136.33.34	2016-01-29T05:	
···· Senice View	Critical	CRITICAL	IPMI Sensor He 10.136.33.91	2016-01-29T05:	
Synthetic Transaction	Healthy	ОК	IPMI Sensor He 10.134.12.58	2016-01-29T05:	
System Center Advisor	Critical	CRITICAL	IPMI Sensor He 10.136.33.103	2016-01-29T05:	
· · · · · · · · · · · · · · · · · · ·	Critical	CRITICAL	IPMI Sensor He 10.136.33.104	2016-01-29T05:	
Show or Hide Views	() Healthur	or	IDMI Concor Line 10 126 22 22	2016 01 20705.	
New View 🕨	Detail View				*
Monitoring	i Select an	item in the view al	boveto displayits details.		
Authoring					
Reporting					
🚳 Administration					
Ky Workspace					
Ready					

Figure 4-2

## 4.2 Health (Host/Service Status)

In Host View, the health status of hosts can be monitored.

			Host View -	omg - Operatio	ons Manager					_ 🗆 X
Eile Edit View Go Tasks Iools Help Eine Search ▼	T <u>a</u> sks	s 😧 👳								
Monitoring	< Hos	st View (9)							> Tasks	
Microsoft Audit Collection Services	~ 🔍	Look for:			Find Now	Clear			2	
Microsoft Windows Client	Stat	te	Host Status	😣 Services	Host Name 🛛 👻	Host Type	Address	Last Che	State Actions	^
Microsoft Windows Server		Healthy	UP		tw-jimyang-nb	Agentless	192.168.1.1	2016-01	w0.	
Network Monitoring	Ø	Healthy	UP		smciom01	Agentless	192.168.1.84	2016-01	Start Maint	enance Mode
Operations Manager	Ø	Healthy	UP	🐼 Critical	172.31.1.176	Agent Manage	172.31.1.176	2016-01	. 📲 Edit Mainte	nance Mode Settings.
SCM Crown Diagram	Ø	Healthy	UP	🐼 Critical	10.136.33.91	IPMI,NM	10.136.33.91	2016-01	Stop Maint	enance Mode
SSM Servers	۲	Critical	DOWN	🐼 Critical Critica	al ).136.33.34	IPMI,NM	10.136.33.34	2016-01	Personalize	view
4 Kin SSM	<b>•</b>	Healthy	UP	🐼 Critical	10.136.33.33	IPMI,NM	10.136.33.33	2016-01		
Host View	8	Critical	DOWN	🐼 Critical	10.136.33.104	IPMI,NM	10.136.33.104	2016-01		
Service View	8	Critical	DOWN	🐼 Critical	10.136.33.103	IPMI,NM	10.136.33.103	2016-01		
Synthetic Transaction		Healthy	UP	🕢 Healthy	10.134.12.58	IPMI	10.134.12.58	2016-01		
System Center Advisor	~									
Show or Hide Views	<				I			>		
New View 🕨	D	etail View						~		
Monitoring		i Select an it	em in the view abov	ve to display its deta	ails.					
Authoring										
Reporting										
🚳 Administration										
My Workspace										
	•									
Ready										

Figure 4-3

In Service View, the health status of the services can be monitored.

		Service View	v - omg - Operation	s Manager			_ 🗆 X
<u>File E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp							
Search 👻 🝦 🌆 Scope 🔎 Find	T <u>a</u> sks 🕡 💡						
Monitoring <	Service View (30)	)					<ul> <li>Tasks</li> </ul>
Microsoft Audit Collection Services	Look for:		_	Find Now	Clear		2
Microsoft Windows Client	State	Service Status	Service Name Ho	st Name	Last Check	^	State Actions
Microsoft Windows Server	🕢 Healthy	OK	System inform 172	2.31.1.176	2016-01-29T05:		web and the second
Network Monitoring	🕢 Healthy	ОК	Storage health 172	2.31.1.176	2016-01-29T05:	=	Start Maintenance Mode
Operations Manager	🐼 Critical	CRITICAL	IPMI System Inf 10.	136.33.34	2016-01-29T05:	_	Edit Maintenance Mode Settings
SSM Group Diagram	🐼 Critical	CRITICAL	IPMI System Inf 10.	136.33.103	2016-01-29T05:		Stop Maintenance Mode
SSM Servers	Healthy	OK	IPMI System Inf 10.	134.12.58	2016-01-29T05:		Personalize view
4 🦳 SSM 📃	Healthy	OK	IPMI System Inf 10.	136.33.33	2016-01-29T05:		
III Host View	🐼 Critical	CRITICAL	IPMI Sensor He 10.	136.33.34	2016-01-29T05:		
Service View	🐼 Critical	CRITICAL	IPMI Sensor He 10.	136.33.91	2016-01-29T05:		
Synthetic Transaction	Healthy	ОК	IPMI Sensor He 10.	134.12.58	2016-01-29T05:		
System Center Advisor	🐼 Critical	CRITICAL	IPMI Sensor He 10.	136.33.103	2016-01-29T05:		
Chow or Hide Views	😢 Critical	CRITICAL	IPMI Sensor He 10.	136.33.104	2016-01-29T05:		
New View A	C Hastithu	OK	IDMI Consor Ho 10	126 22 22	2016 01 20705		
	Detail View					~	
Monitoring	i Select an	item in the view abo	ove to display its details.				
Authoring	X						
Reporting							
Administration							
My Workspace							
•							
Ready							



### 4.3 IPMI Ping Info

In Host View, the system ping information is shown in the Status Information.

			Host Vie	w - omg - Opera	itions Manager				_ 0	x
<u>File Edit View Go Tasks Tools H</u> elp										
Search 🔻 🝦 🎼 Scope 🔎 Fig	d 🗹	Tasks 😧 🝦								
Monitoring	<	Host View (9)							<ul> <li>Tasks</li> </ul>	
Uindows Computers	^	🔍 Look for:			Eind Now	Clear				
Agentless Exception Monitoring		State	Host Status	🔞 Services	Host Name 🔍	Host Type	Address	Last Che	State Actions	
Application Monitoring		Healthy	UP		tw-jimyang-nb	Agentless	192.168.1.1	2016-01		
Data Warehouse		Healthy	UP		smciom01	Agentless	192.168.1.84	2016-01	Start Maintenance Mode	
Microsoft Audit Collection Services		Healthy	UP	🐼 Critical	172.31.1.176	Agent Manage	172.31.1.176	2016-01	Edit Maintenance Mode Set	tting
Microsoft Windows Client		Healthy	UP	🐼 Critical	10.136.33.91	IPMI,NM	10.136.33.91	2016-01	18 Stop Maintenance Mode	
Microsoft Windows Server		🐼 Critical	DOWN	🐼 Critical	10.136.33.34	IPMI,NM	10.136.33.34	2016-01	Personalize view	
Network Monitoring		Healthy	UP	🐼 Critical	10.136.33.33	IPMUNM	10.136.33.33	2016-01		
Derations Manager		Critical	DOWN	🐼 Critical	10.136.33.104	IPMI.NM	10.136.33.104	2016-01	Tasks	•
Supermicro DCMS		Critical	DOWN	Critical	10.136.33.103	IPMLNM	10.136.33.103	2016-01	Entity Properties	
SSM Group Diagram	=	Healthy	UP	Healthy	10.134.12.58	IPMI	10.134.12.58	2016-01	A Health Explorer	
		•		•					100	
Host View									Navigation ^	•
Service View		<			ш			>	Alert View	
Synthetic Transaction		Detail View						~	C Diagram View	
System Center Advisor		Detail view							Example View	
Web Application Transaction Monitoring		Hosts pr	operties of 10.136	5.33.91				~		
Windows Service And Process Monitoring	~	Dicolay Ma	mo 10 126 3	2.01					Performance View	
Show or Hide Views		Full Path 1	Vame SMCION	401.smcipmi.com\SM	IOM01.smcipmi.com\	192.168.1.2\10.136.	33.91		State View	
New View b		Host Statu	is UP						Network Vicinity Dashboard	1
New View P	<u> </u>	Address	10.136.3	13.91					Useda Tasla	
Monitoring		Last Check	Last Check 2016-01-29T06:12:11.611Z							
		Status Info	ormation Pinging	10.136.33.91 with 32	bytes of data: Reply fi	om 10.136.33.91: b	vtes=32 time=1ms		😱 Asset Info	
Authoring			TTL=64	Reply from 10.136.33.	91: bytes=32 time<1m	s TTL=64 Ping statis	tics for 10.136.33.9	91:	Change BIOS CFG	
Reporting		Hostono	Packets: 122552	sem = 2, Received =	2, LUST = 0 (0% 1055), /	Approxima			Change BMC CFG	
in the state of th		Host Nam	Host Name 10.136.33.91							
Administration		Host Type	IPMI, NN	1					Export BMC CEG	
My Workspace										
10 my workspace									Mount ISO image	
	*							$\sim$	Open KVM	Ξ,
Ready										

Figure 4-5

#### 4.4 License Info

In the detailed Service View, the license information is shown in the System Information.

8				Service Vi	ew - omg - Operations Manager		- 0 X
<u>File Edit View Go Tasks Tools Help</u>							
Search - Scope P Find	Tasks 😧 -						
Menitories	<ul> <li>Service View (20)</li> </ul>					_	> Tarke
Artise Alertr	<ul> <li>Jeak fee</li> </ul>	, 		Find Nov	Class		n 0
i Discovered Inventory	Chate	Canada Chatar	Canaliza Manas	Hast Name	Last Charle		
II Distributed Applications	Critical	CRITICAL	IPMI SEL Health	10.136.33.104	2016-01-29T07-	^	State Actions
🛞 Task Status	Critical	CRITICAL	IPMI SEL Health	172.31.1.176	2016-01-29T07-		Start Maintenance Mode
H Windows Computers	Critical	CRITICAL	IPMI SEL Health	10 136 33 103	2016-01-29T07		RS Edit Maintenance Mode Settings
Agentless Exception Monitoring	A Healthy	OK	IPMI SEL Health	10.134.12.58	2016-01-29T07:		NS Stop Maintenance Mode
Application Monitoring	() Healthy	OK	IPMI SEL Health	10.136.33.91	2016-01-29T07:		Personalize view
Data Warehouse	() Healthy	OK	IPMI Power Co	10.136.33.33	2016-01-29T07:		
Microsoft Audit Collection Services	() Healthy	OK	IPMI Power Co	10.136.33.91	2016-01-29T07:		Tasks ^
Microsoft Windows Client	Critical	CRITICAL	IPMI Power Co	10.136.33.34	2016-01-29T07:	100	Entity Properties
h Stetwork Monitoring	Critical	CRITICAL	IPMI Power Co	10.136.33.103	2016-01-29T07:		Realth Explorer
Derations Manager	E 🐼 Critical	CRITICAL	IPMI Power Co	10.136.33.104	2016-01-29T07:		-
A Compermicro DCMS	Critical	CRITICAL	Check SUM Su	10.136.33.103	2016-01-29T07:		Navigation ^
SSM Group Diagram	Critical	CRITICAL 2.	Check SUM Su	10.136.33.34	2016-01-29T07:	=	Alert View
SSM Servers	() Healthy	ок	Check SUM Su	10.136.33.33	2016-01-29T07:		Diagram View
4 🛗 SSM	Healthy	ок	Check SUM Su	10.134.12.58	2016-01-29T07:		ta Event View
Host View 1.	() Healthy	OK	All-in-one heal	172.31.1.176	2016-01-29T07:		Performance View
E Service View	() Healthy	OK	Agent and its p	172.31.1.176	2016-01-29T07:	~	III State View
Synthetic Transaction	0						Network Vicinity Darbhoard
Web Application Transaction Monitorian	Detail View					~	E Reality France France
Windows Service And Process Monitoring	Services p	roperties of Check	SUM Support			~	Report Tasks
-	V Dirolay Nas		Chark SUM Su	ppart			Agent Counts by Date, Manageme
Show or Hide Views	Full Path Na	ame	SMCIOM01.sm	cipmi.com\SMCION	II01.smcipmi.com/192.168.1.2/10.136.33.33/Check SUM Support		Alert Logging Latency
New View +	Host Name		10.136.33.33				Alerts
	Service Nam	10	Check SUM Su	pport			
Monitoring	Last Check	-	2016-01-29107:	31:43.1682			in contracting
2 Automa	State Type	3.	HARD				Comparation Changes
Autoring	Status Infor	rmation	[KEY] Product K ID=0731:BIOS	ey Activated=008 Build Date=2014/1	b) BMC BMC FW Version=03.23; BMC Supports OOB BIOS Config=Yes; BMC Supports OOB DMI Edit=Yes; [BIOS] BIOS Board [/15/BIOS Supports ODB BIOS Config=Yes; BIOS Supports OOB DMI Edit=Yes;		Data volume by Management Pad
Reporting			011		and a subject of the start of the subject of the sub- reg		Data Volume by Workflow and Ins
Administration	Host OID		795				Event Analysis
	Host Addre	\$\$	10.136.33.33				Health
My Workspace							
	-					~	·

Figure 4-6

### 4.5 Performance (System Utilization)

In the Host View Tasks menu, select the desired host and click **System Utilization** to get the information.

· · · · · · · · · · · · · · · · · · ·	_								
Monitoring	<	Host View (9)						> 1	Tasks
Active Alerts	^	🔍 Look for:				Eind Now	<u>C</u> lear	7	0
Discovered Inventory	Н	State	Ho	st Status 🛛 🔞	Services	Host Name 📼	Host Type	M	Danfarran an Minus
Distributed Applications		Healthy	UP			tw-jimyang-nb	Agentless		Performance view
💑 Task Status		Healthy	UP			smciom01	Agentless	***	State View
iii Windows Computers		Healthy	UP	×	Critical	172.31.1.176	Agent Manage	8	Network Vicinity Dashboard
Agentless Exception Monitoring		Healthy	UP	Ř	Critical	10.136.33.91	IPMLNM	Ца	ste Taeke
Application Monitoring		Critical	DO	WN 🖁	Critical	10.136.33.34	IPMINM	HU	SIS TOSKS
Data Warehouse		Healthy	IID		Critical	10 126 22 22			Asset Info
Microsoft Audit Collection Services	≡	Critical		WN 🛛	Critical	10 126 22 104			Change BIOS CFG
Microsoft Windows Client			00		Critical	10.136.33.104			Change BMC CFG
Microsoft Windows Server			00		Critical	10.130.33.105	IPIVI, INIVI		Export BIOS CFG
Index Monitoring		Healthy	UP	V	) Healthy	10.134.12.58	IPMI		Europet PMC CEC
Derations Manager				2.					Export bivic CFG
Supermicro DCMS							2	-	Mount ISO image
SSM Group Diagram							1		Open KVM
		Detail View					*		Open Web
Hort View									Ping (agent)
Service View		State	Ø	Instance	Availability	Configuration	ion U Performa		Ping (console)
	~	Healthy		IPMI Sensor He	Healthy	O Not monit	o O Not mor		Bower Info
Show or Hide Views		Healthy		IPMI System Inf	Healthy	Not monit	o O Not mor	E	System Utilization
New View 🕨		Healthy		PMI SEL Health	Healthy	Not monit	o O Not mor	1	System ounzation
The second		() Healthy		Check SLIM Sun	Healthy	Not monit	o O Not mor	-	UnMount ISO image
Monitoring		Uncontribution of the second s		crick som sup	Uncountry .			1	Update Firmware
Authoring								_	

Figure 4-7

The figure shows the result output.

	Console Task Output		x
The task was completed.			
Output:			_
10.136.33.111			^
Supermicro Update Manag Copyright(C)2015 Super	iger (for UEFI BIOS) 1.5.0 (2015/07/27) (x86_64) ∙Micro Computer, Inc. All rights reserved		
Time			
Last Sample Time: 2	2016-02-05_01:19:57		
os			
== OS Name: CentOS			
OS Version: 6.5 x80	16_64		
===			=
Memory			
Memory Utilization:	: 10 %		
HDD(1)			
HDD name: /dev/sda SMART Status: Ok			
Total Partitions: ( [Partition(1)]	6		
Partition M	Name: /dev/sda1		
Used Space	:: 0.25 MB		_
[Partition(2)]			
Utilization	name: /dev/sdaz n: 8.43 %		
Total Space	:: 38.78 MB :e: 484.22 MB		
[Partition(3)] Partition M	Name: /dev/sda3		
Utilization Used Space	in: N/A		
Total Space	e: 930.83 GB		
Partition M	Name: /dev/mapper/vg_tascimpilerenvironment-lv_root		
Used Space	:: 5.16 GB		
[Partition(5)]	C. 47.22 UD		$\overline{}$
<		>	
L			
		<u>C</u> lose	

Figure 4-8

#### 4.6 Asset Info

In the Host View Tasks menu, select a host and click **Asset Info** to get the information.

Monitoring	<	Host View (9)					<b>&gt;</b> 1	lasks
Active Alerts	^	🔍 <u>L</u> ook for:			<u>F</u> ind Now	<u>C</u> lear	2	•
Discovered Inventory		State	Host Status	🐼 Services	Host Name 🛛 👻	Host Type		Performance View
Distributed Applications		🕢 Healthy	UP		tw-jimyang-nb	Agentless		
Task Status			UP		smciom01	Agentless		State View
Windows Computers		Healthy	UP	🐼 Critical	172.31.1.176	Agent Manage	8	Network Vicinity Dashbo
Agentless Exception Monitoring		Healthy	UP	Critical	10.136.33.91	IPMI,NM	Hos	te Tacke 3.
Application Monitoring		Critical	DOWN	Critical	10,136,33,34		nos	IS IDSKS
Data Warehouse		A Healthy	LID	Critical	10 126 22 22			Asset Info
Microsoft Audit Collection Services	=	Critical	DOWN	Critical	10.136.33.33			Change BIOS CFG
Microsoft Windows Client		Critical	DOWN	Critical	10.130.33.104			Change BMC CFG
Microsoft Windows Server		🐼 Critical	DOWN	Critical	10.136.33.103	IPMI,NM		Export BIOS CEC
Network Monitoring		Healthy	UP	Healthy	10.134.12.58	IPMI		Export bios cro
Operations Manager		2					-	Export BMC CFG
4 🚰 Supermicro DCMS		2.						Mount ISO image
🗲 SSM Group Diagram		<	ш			>		Open KVM
SSM Servers		Detail View				~	Ţ	Open Web
A SSM		Charles						Ping (agent)
Service View	~	State	Instance			n U Performa		Ping (console)
Show or Hide Viewr		Healthy	IPMI Senso	r He 🕢 Healthy	🔵 Not monito	🔿 Not mor		Power Info
New View N		Healthy	IPMI System	i Inf 🕢 Healthy	🔘 Not monito	🔘 Not mor		System Utilization
		Healthy	IPMI SEL He	alth 🕜 Healthy	🔵 Not monito	🔘 Not mor		UnMount ISO image
Monitoring		🕢 Healthy	Check SUM	Sup 🕢 Healthy	🔘 Not monito	🔘 Not mor		Update Firmware

Figure 4-9

The figure shows the result output.

Console Task Output	_ □	x
The task was completed.		
Output:		
Version: 1.00 Serial Number: 0123456789123456		^
CPU === [CPU(1)] Family: Intel(R) Xeon(R) processor Manufacturer: Intel Version: Genuine Intel(R) CPU @ 2.20GHz Current Speed: 2200 MHZ Enabled Cores: 10		
Memory [MEM(1)] N/A [MEM(2)] N/A [MEM(3)] N/A [MEM(4)] N/A [MEM(6)] N/A [MEM(6)] N/A [MEM(6)] N/A		
Manufacturer: Micron Manufacturing Date (YY/WW): 14/45 Part Number: 925F51272AZ-2G1A1 Serial Number: 00AD7C48 Size: 4096 MB Current Speed: 1866 MHz [MEM(8)] N/A Add-on Network Interface		Ξ
N/A		
<		>
	<u>C</u> lose	

Figure 4-10

## 4.7 Mounting an ISO Image

In the Host View Tasks menu, select a host and click **Mount ISO Image**.

				Host View - or	ng - Operatio	ons	Manager				x
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp											
Search 👻 🝦 👫 Scope 🔎 Find	Ī	T <u>a</u> sks 🕡 🝦									
Monitoring	<	Host View (9)							>	Tasks	
Active Alerts	^	🔍 Look for:					Eind Now	Clear	V	0	
Discovered Inventory		State	He	st Status 🛛 🔞	Services	Hos	t Name 🛛 🔻	Host Type		Performance View	4
Distributed Applications		Healthy	UP			tw-	imyang-nb	Agentless		State View	
Task Status		Healthy	UP			sm	tiom01	Agentless		Network Malalty Deskhared	
Windows Computers		Healthy	UP	e e e e e e e e e e e e e e e e e e e	Critical	172	31.1.176	Agent Manage	62	Network Vicinity Dashboard	
Application Monitoring		Healthy	UP	•	Critical	10.1	36.33.91	IPMI,NM	Ho	osts Tasks	^
Data Warehouse		🐼 Critical	DC	own 📀	Critical	10.1	36.33.34	IPMI,NM		Asset Info	
Microsoft Audit Collection Services	=	Healthy	UP	e e	Critical	10.1	36.33.33	IPMI,NM		Change BIOS CEC	
Microsoft Windows Client		🐼 Critical	DC	own 📀	Critical	10.1	36.33.104	IPMI,NM			
Microsoft Windows Server	2	🐼 Critical	DC	DWN 🔞	Critical	10.1	36.33.103	IPMI,NM		Change BMC CFG	
Network Monitoring		🕢 Healthy	UP		) Healthy	10.1	34.12.58	IPMI		Export BIOS CFG	
Derations Manager									1	Export BMC CFG	
Supermicro DCMS									5	Mount ISO image	
≤ SSM Group Diagram		<								Open KVM	
SSM Servers 1.		Detail View						`		Open Web	
A / SSM							•			Ping (agent)	
Service View		State	Ø	Instance	Availability		Configuration	on 🕖 Perform	a 🗖	Ping (console)	
in senice new	~	() Healthy		IPMI Sensor He	() Healthy		O Not monito	o 🔿 Not m		Power Info	-
Show or Hide Views		Healthy		IPMI System Inf	Healthy		Not monite	o 🔿 Not me		Surtem Hilitation	
New View 🕨		Healthy		IPMI SEL Health	Healthy		Not monito	o 🔘 Not me		Jystem outzation	
Market a		Healthy		Check SUM Sup	Healthy		Not monito	o 🔘 Not me	n 🗎		
Monitoring		<b>U</b>			· ·		Ŭ	Ŭ	4	Update Firmware	
Authoring									Re	port Tasks	~
Perceting									1	· A sent Countries Data Management Crows and Version	
Reporting										Agent counts by Date, Management Group and Version	
Administration										Alert Logging Latency	
My Workspace										Alerts	
in in the space									1	Availability	
	*	<		ш				:		Configuration Changes	
Ready											

Figure 4-11

Enter the URL of the ISO link and login credential.

IPMI - Mount ISO Image Arguments
- ISO Image URL
ISO Image URL
The SAMBA URL to access the shared image file URL format 'smb:// <host ip="" name="" or="">/<shared point="">/<file path="">' UNC format '\\<host ip="" name="" or="">\<shared point="">\<file path="">'</file></shared></host></file></shared></host>
Access options
ID
The specified ID to access the shared file
Password
The specified password to access the shared file
OK Cancel



The figure shows the result output.

Console Task Output	x
The task was completed.	
Output	_
RUNATIKA RUNATIKA RUNATIKA FAXISHED	^
System Name   Elapsed   Status   Exit Code 10.134.12.58   D0:D0:D7   SUCCESS   D Summary:	
1 EXECUTIONS ( WALTING: 0 KONNING: 0 SOCCESS: 1 FAILED: 0 ) 2016-01-29T10:25:37.677Z OK	
KEY  Code Status	
dataskId, 35], [status, FINI ]inkstions.Generic.Dictionary 	
۲ – W – S – S – S – S – S – S – S – S – S	~
Close	

Figure 4-13

#### 4.8 Unmounting an ISO Image

In the Host View Tasks menu, select a desired host and click **Unmount ISO Image** to unmount an ISO image.

<b>•</b>				Host View - on	ng - Operatio	ns	Manager				_ <b>_ x</b>
<u>File Edit View Go Tasks Tools H</u> elp											
Search 👻 🝦 🏧 Scope 🔎 Find	1	T <u>a</u> sks 😧 📮									
Monitoring	<	Host View (9)								× 1	ïasks
Active Alerts	^	🔍 Look for:					Find Now	<u>C</u> lea	ir	2	0
E Discovered Inventory		State	Ho	st Status 🛛 🔞	Services	Hos	t Name 🛛 👻	Host Ty	pe		Performance View
Distributed Applications		Healthy	UP			tw-	jimyang-nb	Agentle	55		State View
Windows Computer		Healthy	UP	-		smo	tiom01	Agentle	55		Network Vicinity Dashboard
Agentless Exception Monitoring		I Healthy	UP	8	Critical	172	.31.1.176	Agent N	fanage		receiver vicinity basicoura
Application Monitoring		() Healthy	UP		Critical	10.1	36.33.91	IPMI,NN		Hos	ts Tasks ^
Data Warehouse		Critical	DO	WN 😫	Critical	10.1	36.33.34	IPMI, NN			Asset Info
Microsoft Audit Collection Services	≡	Critical	DO	MM @	Critical	10.1	26 22 104	IDMI, INK			Change BIOS CFG
Alicrosoft Windows Client	2.	Critical	DO	wn 🛛	Critical	10.1	36 33 103	IPMI, NN	4		Change BMC CFG
Microsoft Windows server		A Healthy	UP		Healthy	10.1	34.12.58	IPMI			Export BIOS CFG
Derations Manager		•		<ul> <li>Image: A set of the set of the</li></ul>	, ,						Export BMC CFG
a 🙆 Supermicro DCMS											Mount ISO image
🛁 SSM Group Diagram		<		ш					>		Open KVM
SSM Servers 1.		Detail View							~		Open Web
A Constant View					-		•	-			Ping (agent)
Service View		State	Ø	Instance	<ul> <li>Availability</li> </ul>		Configuration	on 🔘 I	Performa		Ping (console)
		Healthy		IPMI Sensor He	Healthy		O Not monito	o ()	Not mor		Power Info 2
show or hide views		Healthy		IPMI System Inf	🕢 Healthy		O Not monite	o ()	Not mor		System Utilization
New View F		Healthy		IPMI SEL Health	🕢 Healthy		Not monito	o 🔿	Not mo		UnMount ISO image
Monitoring		Healthy		Check SUM Sup	Healthy		Not monite	• 🔿	Not mor		Update Firmware
Authoring										-	
										кер	ort lasks
Reporting										•	Agent Counts by Date, Management Group and Version
🚳 Administration										•	Alert Logging Latency
My Workspace										1	Alerts
iny workspace											Availability
	*	<		ш					>	1	Configuration Changes
Ready											



The figure shows the result output.

•	Console Task Outpu	t	_ 🗆 X
The task was completed.			
Output:			
RUNNING FINISHED Status List:			^
System Name	Elapsed   Status	Exit Code	
Summary:			
1 EXECUTIONS ( WA	ITING: 0 RUNNING: 0 SUC	CESS: 1 FAILED:	0)
2016-01-29T10:26:21.62	5Z		
Key			
code			
status			ektd 201
links			tions.Gener
			~
<	ш		>
			Close
			0.036

Figure 4-15

#### 4.9 Opening KVM

In the Host View Tasks menu, click **Open KVM** to invoke a KVM console connected to the host.

		Host View - c	omg - Operatio	ons Manager		_ <b>_</b> ×
<u>Eile Edit View G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp						
Scope Pind	Tasks 🕡 💡					
Monitoring	Host View (9)					<ul> <li>Tasks</li> </ul>
Active Alerts	A Look for:			Eind Now	<u>C</u> lear	2 😧
Discovered Inventory	State	Host Status	Services	Host Name 🛛 👻	Host Type	Performance View
Distributed Applications     Task Status	Healthy	UP		tw-jimyang-nb	Agentless	State View
Windows Computers	Healthy	UP		smciom01	Agentless	Network Vicinity Dashboard
Agentless Exception Monitoring	Healthy	UP	Critical	1/2.31.1.1/0	Agent Manage.	
Application Monitoring	Critical	DOWN	Critical	10.136.33.91	IDMI NM	Hosts Tasks
Data Warehouse	- A Healthy	UP	Critical	10.136.33.33	IPMLNM	Asset Info
Microsoft Audit Collection Services	Critical	DOWN	Critical	10.136.33.104	IPMI,NM	Change BIOS CFG
Microsoft Windows Server 2.	Critical	DOWN	Critical	10.136.33.103	IPMI,NM	Change BMC CFG
Network Monitoring	Healthy	UP (	🕖 Healthy	10.134.12.58	IPMI	Export BIOS CFG
Derations Manager						Export BMC CFG
Supermicro DCMS						Mount ISO image 3.
SSM Group Diagram	<				>	🙀 Open KVM
a possibilities 1.	Detail View				*	L Open Web
III Host View	State	Instance	Availability	Configuratio	on O Performa	Ping (agent)
Service View	-	Ŭ				Ping (console)
Show or Hide Views	Healthy	IPMI Sensor He	. 🕢 Healthy	O Not monito	o O Not moi	Power Info :
New View 🕨	Healthy	IPMI System Inf.	. 🕜 Healthy	O Not monite	o O Not moi	r 😱 System Utilization
[	Healthy	IPMI SEL Health	Healthy	Not monite	o O Not mor	🗔 UnMount ISO Image
Monitoring	( Treatiny	check sow sup				📮 Update Firmware
Authoring						Report Tasks
P Reporting						Agent Counts by Date, Management Group and Version
🚳 Administration						Alert Logging Latency
Mu Workspace						Alerts
iny monspace						Availability
	• <	Ш			>	Configuration Changes
Ready						



Enter the BMC login information.

	BMC Login 🗕 🗖 🗙
Username:	ADMIN
Password:	ADMIN
	OK Cancel



The figure shows the result output.

ipermicro 🖾		Host Vie	w - omg - Operat	tions Manager				_ 🗆 X
MS - SC File Edit View Go Tasks Tools Help								
Search 🕆 👙 İ 🌆 Scope 👂 Find	🛛 Tasks 🔞 💡							
Monitoring	< Host View (9)						>	Tasks
PicPick EII Distributed Applications	🔺 🔍 Look for:			Find Now	Clear		2	0
Concella Tank Output	State	Host Status	Services	Host Name 👻	Host Type	Address	Last Che	usis idsks
	Healthy	UP		smciom01	Agentiess	192.168.1.84	2016-02-	Asset Info
The task was completed.	I Healthy	UP	🐼 Critical	172.31.1.176	Agent Manage	172.31.1.176	2016-02	Change BIOS CFG
	Healthy	UP	🔞 Critical	10.136.33.91	IPMI,NM	10.136.33.91	2016-02-	Export BIOS CFG
Output:	😵 Critical	DOWN	🔞 Critical	10.136.33.34	IPMI,NM	10.136.33.34	2016-02	Export BMC CFG
Please wait for 1KVM window	Healthy	UP	Critical	10.136.33.33	IPMI,NM	10.136.33.33	2016-02	Mount ISO image
	oworw1 60 r14 [1	10 126 22 221	Resolution 1024	10.130.55.104	IPIWI,INIWI	10.150.55.104	2016-02-	Open KVM
Virtual Madia Record Macro Ontions Upor List C	aptura Dowor Co	ntrol Evit	- Resolution 102-	+ X 700 - FP3 U				Open Web
virtuarmedia Record macro options oser List c	apture Powerco	intoi exit				_		Ping (agent)
								Ping (console)
								Power Info
Dress Ctrl - Alt - Delete to sign i	_							System Utilization
Press Ctri+Ait+Delete to sign i	n.							Unitiount ISO Image
								eport Tasks ^
								Agent Counts by Date, Manage
								Alert Logging Latency
								Alerts
								Availability
								Configuration Changes
								Data Volume by Warkflow and
								Event Analysis
								Health
								•

Figure 4-18

### 4.10 Opening the IPMI WebUI

In the Host View Tasks menu, click **Open Web** to invoke the browser and locate the desired host.

				Host View - or	ng - Operatio	ons	Manager			_ <b>_</b> X
<u>File E</u> dit <u>V</u> iew <u>G</u> o Tas <u>k</u> s <u>T</u> ools <u>H</u> elp										
Search 👻 🝦 🌆 Scope 👂 Find	2	Tasks 🔞 💡								
Monitoring	<	Host View (9)								Tasks
Active Alerts	^	Q Look for:					Eind Now	Clear	2	0
Discovered Inventory		State	Ho	st Status 🛛 🔞	Services	Hos	t Name 🛛 👻	Host Type		Performance View
Distributed Applications		Healthy	UP			tw-j	imyang-nb	Agentless		State View
Manager Computer		Healthy	UP			smo	iom01	Agentless		Network Vicinity Dachboard
Agentless Exception Monitoring		Healthy	UP	×	Critical	172.	31.1.176	Agent Manage		Network vicinity basilboard
Application Monitoring		Healthy	UP		Critical	10.1	36.33.91	IPMI,NM	Ho	sts Tasks
Data Warehouse Z.	1.	Critical	DO	WN 🛛	Critical	10.1	36.33.34	IPMI,NM		Asset Info
Microsoft Audit Collection Services		Healthy	UP	<u></u>	Critical	10.1	36.33.33	IPMI,NM		Change BIOS CFG
Microsoft Windows Client		Critical	DO	WN 😢	Critical	10.1	36.33.104	IPMI,NM		Change BMC CFG
Microsoft Windows Server		Critical	00	WN 😫	Critical	10.1	30.33.103	IPMI,NM		Export BIOS CFG
Index Monitoring		Healthy	UP	Q	Heartny	10.1	34.12.38	IPIMI		Export BMC CFG
A C Supermicro DCMS										Mount ISO image
SSM Group Diagram		<		ш				>		Open KVM 3
III SSM Servers		Detail View						~		Open Web
4 🚰 SSM 1.										Disc (cost)
Host View		State	$\otimes$	Instance	Availability		Configuration	on 🔘 Performa	1	Ping (agent)
Service View	×	() Healthu		IDMI Concor Ho	() Healthu				-	Ping (console)
Show or Hide Views		W Healthy		IPMI Serior He	() Healthy				-	Power Into E
New View 🕨		Healthy		IPMI System Int	Healthy		Not monito	Not mor	-	System Utilization
		Healthy		Check SUM Sup	Healthy			Not mor	4	UnMount ISO image
Monitoring		<b>U</b> ,					0	0	L,	Update Firmware
Authoring									Rep	oort Tasks
Reporting										Agent Counts by Date, Management Group and Version
Administration										Alert Logging Latency
										Alerts
My Workspace										Availability
	*	<		Ш				>		Configuration Changes
Ready			_			_				

Figure 4-19

The figure shows the result output.

			Host Viev	w - om	g - Opera	tions Manager					_ 🗆 X
File Edit View Go Tasks Tools Help											
Search 👻 🝦 🌆 Scope 🔎 Find	🗹 Ta	sks 👔 🝦									
Monitoring	< H	lost View (9)								> 1	Fasks
Distributed Applications		Look for:				Find Now	Clear			121	0
🛃 Task Status	s	itate	Host Status	8	Services	Host Name 👻	Host Type	Address	Last Che	nos	LS TASKS
Windows Computers	_ (	🕢 Healthy	UP			tw-jimyang-nb	Agentless	192.168.1.1	2016-02-		Asset Info
Agentless Exception Monitoring	6	Healthy	UP			smciom01	Agentless	192.168.1.84	2016-02-		Change BIOS CFG
Application Monitoring	6	🕢 Healthy	UP	8	Critical	172.31.1.176	Agent Manage	172.31.1.176	2016-02-		Change BMC CFG
Data warehouse     Microsoft Audit Collection Sension	6	🕢 Healthy	UP	8	Critical	10.136.33.91	IPMI,NM	10.136.33.91	2016-02-		Export BIOS CFG
Microsoft Windows Client		Critical	DOWN	8	Critical	10.136.33.34	IPMI,NM	10.136.33.34	2016-02-		Export BMC CFG
Microsoft Windows Server	6	🕢 Healthy	UP	8	Critical	10.136.33.33	IPMI,NM	10.136.33.33	2016-02-		Mount ISO image
b and the second s	6	A Healthy	UP	×	Critical	10.136.33.104	IPMLNM	10.136.33.104	2016-02-	~	Doen KVM
	_			_						<b>^</b>	Joan Wah
✓ (=) (≥) https://10.136.33 ) → (≥) C ↓	2	@ 10.136.33.33		×					<u>कि इ</u> द्र		lies (seent)
										~	ing (agent)
											(console)
											ower into
											ystem Utilization
Þ	SIT	DEDMICI									InMount ISO image
Þ	30	PERMICI									Ipdate Firmware
Sh											rt Tasks
Ne			Please	Logi	n						cost Countriby Data Manage
						_					last Lassias Laters
4		Userna	ame								liert Logging Latency
		_									lierts
		Passw	ord								wailability
			logi	in							Configuration Changes
8											ata Volume by Management
E Contraction of the second se											ata Volume by Workflow and
											vent Analysis
											lealth 🗸
Rei											
										_	



## 4.11 Exporting BIOS/BMC Config

In the Host View Tasks menu, select a desired host and click either **Export BIOS Config** or **Export BMC Config**.

				Host View - or	ng - Operatio	ons	Manager			
Eile     Edit     Yiew     Go     Tasks     Tools     Help       Image: Search T = 1		T <u>a</u> sks 🕑 🝦								
Monitoring	<	Host View (9)							>	Tasks
Active Alerts	^	🔍 Look for:					Find Now	<u>C</u> lear	7	0
Discovered Inventory     Distributed Applications     Task Status     Windows Computers		State State Healthy Healthy Healthy	UP UP	st Status 🔞	Services	Ho: tw- sm	st Name 👻 jimyang-nb ciom01	Host Type Agentless Agentless		Performance View State View Network Vicinity Dashboard
Agentless Exception Monitoring     Application Monitoring     Data Warehouse     Microsoft Multi Collection Services     Microsoft Windows Client     Microsoft Windows Server     Agentless Macrosoft	=	<ul> <li>Healthy</li> <li>Healthy</li> <li>Critical</li> <li>Healthy</li> <li>Critical</li> <li>Critical</li> <li>Critical</li> <li>Healthy</li> </ul>		WN S WN S WN S WN S	) Critical ) Critical ) Critical ) Critical ) Critical ) Critical	10. <sup>-</sup> 10. <sup>-</sup> 10. <sup>-</sup> 10. <sup>-</sup> 10. <sup>-</sup> 10. <sup>-</sup>	136.33.91 136.33.34 136.33.33 136.33.104 136.33.103 134.12.58	Agent Manage. IPMI,NM IPMI,NM IPMI,NM IPMI,NM IPMI,NM	Ho	sts Tasks Asset Info Change BIOS CFG Change BIOS CFG Export BIOS CFG Twort BIOS CFG
Supermicro DCMS     SSM Group Diagram     SSM Servers     SSM S 1.		< Detail View		Ш				>		Mount ISO image Open KVM Open Web
Host View	~	State	Ø	Instance	Availability		Configurati	on O Performa		Ping (agent) Ping (console)
Show or Hide Views New View >		<ul> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> </ul>		IPMI Sensor He IPMI System Inf IPMI SEL Health	<ul> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> </ul>		Not monit Not monit Not monit	o O Not mor o O Not mor o O Not mor		Power Info System Utilization
Monitoring		Healthy		Check SUM Sup	Healthy		O Not monit	o 🔘 Not mor	Ē,	Update Firmware

Figure 4-21

Click **Browse** to select a destination path to save the exported configurations.

	Export BIOS Config	x
Save to		Browse
	OK	Cancel

Figure 4-22

The figure shows the result output of exporting BIOS configurations.

Console Task Output	- 🗆 X
The task was completed.	
Output:           Implease refer to SUM User's guide '4.1 Format of BIOS Settings Text [Advanced Boot Feature]           Quide Boot=01         // Please enter the value Addon ROM Display Mode=01           Addon ROM Display Mode=01         // 01 (Force BIOS), 00 (Kt Bootup NumLock State=01           Wait For 'f1' If Frore01         // 00 (Disabled), "01 (Ena User For 'f1' If Frore01           INT19 Trap Response=01         // 01 (Immediate), 00 (Po Watch Poor Function=00           Power Button Function=01         // 01 (Instant off), 00 (Ca Stay Off), 01 (Power Sutton Ac Power Loss=02	t File' fo in 2 hexad eep Curren bled) stponed) acy Boot), bled) 4 Seconds r On), *02
[Advanced]CPU Configuration]         // Please enter the value           [Clock Spread Spectrum=00         // Please enter the value           hyper-Threading (ALL)=00         // Ol (Disable), =00 (Enable), =00 (Enable), =00 (Enable), =00 (Enable), =00 (Enable), =00 (Disable), =01 (Enable), =00 (Disable), =01 (Enable), =00 (Disable), =01 (Enable), =00 (Disable), =01 (Enable), =01 (Ena	in 2 hexad le) in 2 hexad le) l (Unlock/ le) le) le) le) le) le) le) le)
[Advanced]CPU Configuration Advanced Power Management Configuratio Power Technology=01 // 00 (Disable), =01 (Ener Energy Performance Tuning=01 // 00 (Enable), =01 (Disab Energy Enformance BIAS setting.=07 // 00 (Enable), =01 (Disab Energy Efficient Turbo=00 // =00 (Enable), 01 (Disab	n] gy Efficie le) Balanced P le)
[Advanced[CPU configuration Advanced Power Management Configuratio EST (P-States)=01 // 00 (Disable), =01 (Enab Turbo Mode=01 // 00 (Disable), =01 (Enab P-State Coordination=00 // 90 (Hw.Atl), 01 (Sw.At [Advanced[CPU configuration Advanced Power Management Configuration	n CPU P St le) L), 02 (SW n CPU C St v
	Close

Figure 4-23

The figure shows the result output of exporting BMC configurations.

ĺ	Console Task Output
	The task was completed.
	Output:
	xml version="1.0"? <bmccfg></bmccfg>
	<pre>    </pre>
	<pre><!--Standard BMC configuration tables--> <fru action="Change"></fru></pre>
	<pre><!--Supported Action:None/Change--> <configuration></configuration></pre>
	<pre><!--Configuration for FRU data--> <boardmfgdatetime>1996/1/1 0:0</boardmfgdatetime> <!--YYYY/MM/DD_HH:MM--></pre>
	year range: 1996~2026 <boardmfgname>Supermicro</boardmfgname>
	string value <boardproductname></boardproductname>
	string value <boardserialnum></boardserialnum>
	string value <boardpartnum></boardpartnum>
	string value <productmfgname></productmfgname>
	string value <productname></productname>
	<pre><!--string value--> </pre>
	<pre><productversion></productversion></pre>
	<productserialnum></productserialnum>
	<productassettag></productassettag>
	<chassistype>0x0</chassistype>
	<chassispartnumber></chassispartnumber>
	<chassisserialnumber></chassisserialnumber> string value
	<sol action="Change"> <!--Supported Action:None/Change--></sol>
	Configuration for SOL properties

Figure 4-24

### 4.12 Changing BIOS/BMC Config

In the Host View Tasks menu, select a desired host and click either **Change BIOS Config** or **Change BMC Config**.

		Host View - o	mg - Operatio	ns Manager		- 🗆 X
File     Edit     View     Go     Tasks     Tools     Help       Image: Search ♥     ↓     Image: Search ♥     Image: Search ♥	T <u>a</u> sks 😧 👳					
Monitoring          Active Alerts          Discovered Inventory          Discovered Inventory          Distributed Applications          Task Status          Windows Computers          Agentiess Exception Monitoring          Agentiess Exception Monitoring          Agentiess Exception Services          Microsoft Windows Server       2.         Microsoft Windows Server       2.         Microsoft Windows Server       2.         Microsoft Windows Server       2.         Monitoring          Soft Group Diagram       Stot Service DCNS         Stot Servers       1.         Show or Hide Views          New View >          Monitoring          Show or Hide Views          Monitoring          Monitoring	Host View (9) Q Look for: State Ø Healthy Ø Healthy Ø Critical Ø Critical Ø Critical Ø Critical Ø Critical Ø Critical Ø Critical Ø Critical Ø Healthy Comparison Ø Healthy Ø Healthy Ø Healthy Ø Healthy Ø Healthy Ø Healthy Ø Healthy	UP UP UP DOWN UP DOWN UP DOWN UP UP UP UP UP UP UP UP UP UP UP UP UP	Critical Healthy	Eind Now Clear Host Name Host Type twjimyang-nb Agentless smciom01 Agentless 172.31.1176 Agent Manag 10.136.33.34 IPMI,NM 10.136.33.34 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.3104 IPMI,NM 10.136.33.104 IPMI,NM 10.13		• •
Autoring					Report Tasks	^

Figure 4-25

The figure shows the result output of using the Change BIOS Config function.

1	Console Task Output		_ 🗆 X
The task was completed.			
Output:			
RUNNING RUNNING FUNISHE STATUS List: STATUS List: STATUS List: STATUS List: 154.12.58   00:00:07 LEXECUTIONS ( WAITING: 0 2016-01-29T09:01:04.0852 2016-01-29T09:01:12.1492 Oc	I   Status   Exit C   SUCCESS   RUNNING: O SUCCESS: 1	ode 0 FAILED: 0 )	<
code status data links I		skId, 1 tions.G	3], [status eneric.Dict
			~
<			>
			<u>C</u> lose

Figure 4-26

The figure shows the result output of using the Change BMC Config function.

Console Task Output	_ [	×	(
The task was completed.			
Output:			
RUUNING RUNNING FINISHED Supermicro Update Manager (for UEFI BIOS) 1.5.0 (2015/07/27) (X86_ Copyright(C)2015 Super Micro Computer, Inc. All rights reserved	64)		~
Status: Start updating the BMC configuration for 10.134.12.58			
Do not remove AC power from the server.	******	****	
Status: The BMC configuration is updated for 10.134.12.58 2016-01-29T08:26:15.5222 2016-01-29T08:26:20.9132 OK KEY 			
data e M Tinks tio	anager ns.Gene	(foi eric	
			_
< III		>	4
	<u>C</u> lo	se	

Figure 4-27

#### 4.13 Updating BMC FW

In the Host View Tasks menu, select a desired host and click Update BMC FW.

			Host View - o	mg - Operati	ons Manager			<b>_</b> ×
<u>File Edit View Go Tasks Tools Help</u>								
Search * 📮 🏭 Scope 🔎 Find	Ż	Tasks 🔞 💡						
Monitoring	<	Host View (9)					► Te	asks
Active Alerts  Constraints  Co	^	Look for: State	Host Status	Services	Eind Now Host Name v tw-jimyang-nb	Glear Host Type Agentless		Performance View
<ul> <li>Task Status</li> <li>Windows Computers</li> <li>Generative Science Scienc</li></ul>		Healthy Healthy	UP UP	Critical	smciom01 172.31.1.176	Agentless Agent Manage.		State View Network Vicinity Dashboard
	=	Critical Healthy	DOWN 6	Critical Critical	10.136.33.91 10.136.33.34 10.136.33.33	IPMI,NM IPMI,NM IPMI,NM	Host	Asset Info
A Microsoft Windows Client     Microsoft Windows Server 2.     A Microsoft Windows Server		Critical Critical	DOWN 0 DOWN 0 UP 0	Critical Critical	10.136.33.104 10.136.33.103 10.134.12.58	IPMI,NM IPMI,NM IPMI		Change BMC CFG Export BIOS CFG
Gperations Manager      Gereations Conservation								Export BMC CFG Mount ISO image
SSM Group Diagram		Detail View				*		Open KVM Open Web
Host View	~	State	Instance	Availability	Configuration	on O Performa		Ping (console)
Show or Hide Views New View >		<ul> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> <li>Healthy</li> </ul>	IPMI Sensor He IPMI System Inf IPMI SEL Health	<ul> <li>(d) Healthy</li> <li>(d) Healthy</li> <li>(d) Healthy</li> <li>(d) Healthy</li> </ul>	Not monito	o () Not mor o () Not mor o () Not mor		Power Info System Utilization 3. UnMount ISO image
Monitoring		Healthy	Check SUM Sup.	🕢 Healthy	Not monito	o O Not mor		Update Firmware
Authoring							Repo	ort Tasks
Reporting								Agent Counts by Date, Management Group and Version Alert Logging Latency
My Workspace								Alerts Availability
	•	<	ш			>		Configuration Changes
Ready								

Figure 4-28

Enter the BMC login credential and firmware file location.

<b></b>	BMC Login 💻 🗖 🗙
Username:	ADMIN
Password:	ADMIN
Filename:	C:\firmware\SMT_X9_3 Browse
	OK Cancel
	li li

Figure 4-29

The figure shows the result output.

	Console Task Output		x
The task was com	pleted.		
<b>.</b>			
Output:			_
WARNING!			^
Firmware upgr Once you get for recovery.	ade must not be interrupted once it is started. error after Upgrading, please use local KCS tool .(DOS:dupdate.exe, Linux:lupdate or		
Windows:wupda	ite.exe )		
Check firmwar	re file Done (ver:3.44)		
Enter to upda	ate mode Done		
Updating >>>>	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		
Done	•		
Total Elapsed	d Time: 3 min 16 sec(s)		
		×	~
<b>1</b>		>	_
		<u>C</u> lose	1
			1

Figure 4-30

# **Contacting Supermicro**

Headquarters