

# IPMICFG User's Guide

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### **Document Revision History**

Date	Revision	Description
2023/02/24	1.14	1. Added NVMe backplane "Rev" information.
		2. Modified the SEL display format.
2022/08/10	1.13	1. Added the "-lani" command to check and configure the BMC
		LAN interface.
		2. Added the "-linkstatus" command to check the connection
		status of the BMC LAN interface.
		3. Allowed users to view and modify the information of the
		multi-node systems.
		4. Added support for FreeBSD 10.4 and later versions.
		5. Changed the number system of BMC's major version from
		hexadecimal to decimal.
		6. Changed the normal state of the PSU from "ON" to "OK."
2021/11/23	1.12	1. Modified the onscreen messages for the KCS Control privilege
		levels: Operator, User, and Callback.
2021/05/28	1.11	1. Added the "Liquid Cooling" and "Smart Speed" fan modes.
		2. Modified the display format of firmware version.
		3. Removed the function of putting a system in lockdown mode.
		4. Added the IPv6 DHCPv6 disabled mode.
		5. Supported a NVMe backplane. (Firmware information: 30 02)
		6. Added the severity code and event ID fields to the "-sel list"
		command.
2020/07/03	1.10	1. Added the "-lockdown" command to put the system in
		lockdown mode.
		2. Added the "-mel list" command to list maintenance event log.
		3. Added the function of listing dynamic IPv6 addresses to the
		"-ipv6 list" command.
2020/06/23	1.9	1. Corrected errors in this document.
2020/01/21	1.8	1. Added options to the "-fd" command.
		2. Added the "-addrptl" command to set up IP protocol.
		3. Added a function to display sets of commands. (This function
		is not available on DOS.)

Date	Revision	Description
2019/07/01	1.7	1. Added the EFI version of IPMICFG.
		2. Added the IPv6 routing functions. (option: -ipv6)
		3. Supported the UEFI PXE boot options, including -reset and -
		soft commands.
		4. Added the mel (Maintenance Event Log) command set.
		(option: -mel)
		5. Removed the -fru 1m, 1p, 1s, 2m, 2p, 2s, 3s commands.
		6. Added the auxiliary firmware revision in "-ver" command.
2018/03/02	1.6	1. Added IPv6 setting functions.
		2. Supported BBP2 (BBP + PSU) module.
		3. Supported MRC error code for Intel® Xeon® Scalable
		Processors with Intel® C620 Series Chipsets.
		4. Fixed the known issues.
2017/09/01	1.5	1. Modified the NVME remove commands.
2017/06/20	1.4	1. Added the DCMI commands.
		2. Removed the -recoverbiosinfo command.
2016/11/23	1.3	1. Modified description of the -fru DMI feature.
		2. Modified description of the -pminfo feature.
		3. Updated the "Operation Requirements" chapter.
2016/08/23	1.2	1. Added the Get/Set host name command.
2016/01/05	1.1	1. Added the TAS commands. (DOS was NOT supported)
		2. Updated the NVME commands. (DOS was NOT supported)
		3. Added the summary command.
2015/06/15	1. 0	Initial document.

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# 1 IPMICFG Overview

IPMICFG is a command line tool utility, providing IPMI commands and Supermicro proprietary OEM commands to configure and monitor IPMI devices. It requires no pre-installation and is easy to use for basic IPMI configuration and BMC status reading and monitoring.

### 1.1 Features

- Setting up IPMI IP addresses
- Setting up IPMI configurations
- Configuring IPMI User Management
- Configuring IPMI FRU
- Managing the System Event Log (SEL)
- Managing IPMI with the node management (NM) protocol

# **1.2 Operation Requirements**

To run basic operations, you must meet the following requirements.

### **1.2.1 System Requirements**

Environment	Requirements
Hardware	Free Disk Space: 200 MB
	Available RAM: 64 MB
	Baseboard Management Controller (BMC) must support Intelligent
	Platform Management Interface (IPMI) version 2.0 specifications.
Operating System	<ul> <li>DOS 5.0 or later version</li> </ul>
	<ul> <li>Microsoft Windows 10 / 11 / Server 2012 / Server 2016 / Server</li> </ul>
	2019 / Server 2022
	<ul> <li>Operating System must be pre-installed Microsoft Visual C++ 2008</li> </ul>
	SP1 Redistributable Package.
	Download Link: <a href="https://www.microsoft.com/en-">https://www.microsoft.com/en-</a>
	us/download/details.aspx?id=11895
	<ul> <li>Linux Kernel version 2.6.x or higher.</li> </ul>
	Red Hat Enterprise Linux (RHEL) 6.8 and later versions
	SUSE Linux Enterprise Server (SLES) 12 SP4 and later versions
	Ubuntu Server 16.04 LTS and later versions
	UEFI Shell
	FreeBSD 10.4 or later.
	<ul> <li>VMWare ESXi 6.5, 6.7, 7.0.</li> </ul>

#### 1.2.2 Software Requirements

Program/Script	Description
\DOS\IPMICFG.exe	IPMICFG DOS (DOS 5.0)
\Linux\32bit\IPMICFG-Linux.x86	IPMICFG Linux 32bit
\Linux\64bit\IPMICFG-Linux.x86_64	IPMICFG Linux 64bit
\Windows\32bit\IPMICFG-Win.exe	IPMICFG Windows 32bit
\Windows\64bit\IPMICFG-Win.exe	IPMICFG Windows 64bit
\UEFI\IPMICFG.efi	IPMICFG UEFI
\FreeBSD\IPMICFG.bsd	IPMICFG FreeBSD
*.dat files	database for MB type and SEL event table
\IPMICFG_*_build.*_ESXi_*x.vib	IPMICFG ESXi vib package

#### 1.2.3 Installing Additional Drivers

#### Linux:

The Linux version of IPMICFG will automatically use the built-in Linux IPMI driver from ipmitool to access BMC.

To load an IPMI driver, type the following commands to access the IPMI driver:

- 1. # modprobe ipmi msghandler
- 2. # modprobe ipmi devintf
- 3. # modprobe ipmi\_si

#### • FreeBSD:

The FreeBSD version of IPMICFG will use the built-in FreeBSD IPMI driver to access the BMC. To load an IPMI driver, run the "kldload ipmi" command.

### 1.3 Typographical Conventions

This manual uses the following typographical conventions.

Courier-New font size 10 represents command line instructions (in CLI) in terminal mode.

**Bold** is used for emphasizing keywords.

Italic is used for variables and section titles.

< > enclose the parameters in syntax description.

[ipmicfg HOME] represents the prompt for inputs in terminal mode.

| A vertical bar separates items in a list.

# 2 Installation and Setup

# 2.1 Installing IPMICFG

Get the IPMICFG\_x.xx.x\_build.xxxxxxx.zip installer, and then unzip it in your environment. You will see the directory list:

```
DOS:
```

```
Execute \DOS\IPMICFG.exe
```

#### Linux 32bit:

```
Execute /Linux/32bit/IPMICFG-Linux.x86
```

#### Linux 64bit:

```
Execute /Linux/64bit/IPMICFG-Linux.x86 64
```

#### Windows 32bit:

```
Execute \Windows\32bit\IPMICFG-Win.exe
```

#### Windows 64bit:

```
Execute \Windows\64bit\IPMICFG-Win.exe
```

#### **UEFI Shell:**

```
Execute \UEFI\IPMICFG.efi
```

#### FreeBSD:

```
Execute \FreeBSD\IPMICFG.bsd
```

#### ESXi:

#### Install signed version of IPMICFG:

```
Execute esxcli software vib install -v
~/IPMICFG_*_build.*_ESXi_*x.vib
```

#### Install unsigned version:

Execute \opt\supermicro\ipmicfq\IPMICFG.esxi

# 3 Basic User Operations

#### Usage:

```
[ipmicfg_HOME] > IPMICFG <command> [option/data...]
```



Note: To display sets of commands, use the command [ipmicfg\_HOME] > IPMICFG <command> -help

Here is an example of displaying the set of -sdr commands to illustrate the steps.

#### Example:

# 3.1 Setting Up IPMI Addresses

-m <ip> Sets IPv4 address (format: ###.###.###.###).  -a <mac> Sets MAC (format: ###.###.###.###).  -k Shows Subnet Mask.  -k <mask> Sets Subnet Mask (format: ###.###.###.###).  -dhcp Gets the DHCP status.  -dhcp on Enables the DHCP.  -g Shows a Gateway IP.  -g <gateway> Sets a Gateway IP (format: ###.###.###.###).  -garp on Enables the Gratuitous ARP.  -ipv6 mode Shows the IPv6 mode.  -ipv6 mode <mode> Sets the IPv6 mode.  -ipv6 autoconfig Shows IPv6 auto configuration.  -ipv6 autoconfig of  -ipv6 duid Show IPv6 bulD.  -ipv6 duid Show IPv6 DUID.  -ipv6 dod <ipv6 -ipv6="" addr)="" of="" route="" sid=""> -ipv6 route ist -ipv6 route cid&gt; -ipv6 route ist -ipv6 route cid&gt; -ipv6 r</ipv6></mode></gateway></mask></mac></ip>	Options for Using IPMICFG		
-a <mac> -a <mac> -a <mac> Sets MAC (format: ##:##:##:##:##).  -k -k -k &lt; mask&gt; Sets Subnet Mask.  -k <mask> Sets Subnet Mask (format: ###.###.###.###).  -dhcp</mask></mac></mac></mac>	-m	Shows IPv4 address and MAC.	
Shows Subnet Mask.  -k < mask> Sets Subnet Mask (format: ###.###.###.###.)  -dhcp Gets the DHCP status.  -dhcp on Enables the DHCP.  -g Shows a Gateway IP.  -g < gateway> Sets a Gateway IP (format: ###.###.###.###).  -garp on Enables the Gratuitous ARP.  -garp off Disables the Gratuitous ARP.  -jey6 mode Shows the IPv6 mode.  -ipv6 mode < Sets the IPv6 mode.  -ipv6 autoconfig Shows IPv6 auto configuration.  -ipv6 autoconfig off Disables IPv6 auto configuration.  -ipv6 list Lists IPv6 static and dynamic addresses.  -ipv6 duid Show IPv6 DUID.  -ipv6 add <id>&gt; leys fastic address.  -ipv6 route Displays IPv6 static route.  -ipv6 route off Disables IPv6 static route.  -ipv6 route did &gt; prefix value &gt; cprefix leys for toute information.  -ipv6 route clear <id>&gt; Sets IPv6 Static router information.  -ipv6 route clear <id>&gt; Sets IPv6 Static router information.  -ipv6 route clear <id>&gt; Clears IPv6 static router information.  -ipv6 route clear <id>&gt; Clears IPv6 static router information.  -addrpt1 [option] Gets/Sets IP address protocol -lockdown -lani [option] Gets/Sets LAN interface.</id></id></id></id></id>	-m <ip></ip>	Sets IPv4 address (format: ###.###.###).	
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-ipv6 duid Show IPv6 DUID.  -ipv6 dns [IPv6 addr] Gets/Sets IPv6 DNS server.  -ipv6 add <id> <ipv6 addr=""> <pre> Adds IPv6 static address.  -ipv6 remove <id> Removes IPv6 static address.  -ipv6 route  -ipv6 route on Enables IPv6 static route.  -ipv6 route off Disables IPv6 static route.  -ipv6 route list Lists IPv6 static router information.  -ipv6 route <id> <pre> <pre></pre></pre></id></id></pre></ipv6></id>	-ipv6 autoconfig off	Disables IPv6 auto configuration.	
-ipv6 dns [IPv6 addr] -ipv6 add <id> <ipv6 addr=""> &lt; prefix&gt;</ipv6></id>	-ipv6 list	Lists IPv6 static and dynamic addresses.	
-ipv6 add <id> <ipv6 addr=""> <pre></pre></ipv6></id>	-ipv6 duid	Show IPv6 DUID.	
-ipv6 remove <id> Removes IPv6 static address.  -ipv6 route Displays IPv6 static route.  -ipv6 route on Enables IPv6 static route.  -ipv6 route off Disables IPv6 static route.  -ipv6 route list Lists IPv6 static router information.  -ipv6 route <id> <pre></pre></id></id>	-ipv6 dns [IPv6 addr]	Gets/Sets IPv6 DNS server.	
-ipv6 route on Enables IPv6 static routeipv6 route off Disables IPv6 static routeipv6 route off Disables IPv6 static routeipv6 route list Lists IPv6 static router informationipv6 route <id> <pre></pre></id>	-ipv6 add <id> <ipv6 addr=""> <prefix></prefix></ipv6></id>	Adds IPv6 static address.	
-ipv6 route on Enables IPv6 static route.  -ipv6 route off Disables IPv6 static route.  -ipv6 route list Lists IPv6 static router information.  -ipv6 route <id> <pre><pre>cprefix value&gt;</pre> <pre><pre><pre>cprefix length&gt; <ipv6 addr=""></ipv6></pre> <pre>-ipv6 route clear <id></id></pre> <pre>Clears IPv6 static router information.</pre> <pre>Clears IPv6 static router information.</pre> <pre>-addrpt1 [option]</pre> <pre>Gets/Sets IP address protocol</pre> -lockdown -lani [option]</pre> <pre>Checks the system's lockdown mode.</pre> Gets/Sets LAN interface.</pre></pre></id>	-ipv6 remove <id></id>	Removes IPv6 static address.	
-ipv6 route off Disables IPv6 static route.  -ipv6 route list Lists IPv6 static router information.  -ipv6 route <id> <pre></pre></id>	-ipv6 route	Displays IPv6 static route.	
-ipv6 route list  Lists IPv6 static router information.  Sets IPv6 static router information.  Sets IPv6 static router information.  Sets IPv6 static router information.  Clears IPv6 static router information.  Gets/Sets IP address protocol  Checks the system's lockdown mode.  Jani [option]  Gets/Sets LAN interface.	-ipv6 route on	Enables IPv6 static route.	
-ipv6 route <id> <pre></pre></id>	-ipv6 route off	Disables IPv6 static route.	
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	-ipv6 route list	Lists IPv6 static router information.	
-ipv6 route clear <id> Clears IPv6 static router information.  -addrptl [option] Gets/Sets IP address protocol  -lockdown Checks the system's lockdown mode.  -lani [option] Gets/Sets LAN interface.</id>	-ipv6 route <id> <prefix value=""></prefix></id>	Sets IPv6 static router information.	
-addrptl [option] Gets/Sets IP address protocol -lockdown Checks the system's lockdown modelani [option] Gets/Sets LAN interface.	<pre><prefix length=""> <ipv6 addr=""></ipv6></prefix></pre>		
-lockdown Checks the system's lockdown modelani [option] Gets/Sets LAN interface.	-ipv6 route clear <id></id>	Clears IPv6 static router information.	
-lani [option] Gets/Sets LAN interface.	-addrptl [option]	Gets/Sets IP address protocol	
	-lockdown	Checks the system's lockdown mode.	
-linkstatus Shows network link status.	-lani [option]	Gets/Sets LAN interface.	
	-linkstatus	Shows network link status.	

#### 3.1.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

• Example 1. Showing IPv4 address and MAC.

```
[ipmicfg_HOME] > IPMICFG.exe -m
IP=192.168.12.34
MAC=00:25:90:AB:CD:EF
```

• Example 2. Setting IPv4 address.

```
[ipmicfg_HOME] > IPMICFG.exe -m 192.168.56.78
IP=192.168.56.78
```

• Example 3. Getting the DHCP status.

```
[ipmicfg_HOME] > IPMICFG.exe -dhcp
DHCP is currently disabled.
```

• Example 4. Showing Subnet Mask.

```
[ipmicfg_HOME] > IPMICFG.exe -k
Subnet Mask=255.255.255.0
```

• Example 5. Showing a Gateway IP.

```
[ipmicfg_HOME] > IPMICFG.exe -g
Gateway=192.168.12.254
```

#### • Example 6: Enabling the Gratuitous ARP.

```
[ipmicfg_HOME] > IPMICFG.exe -garp on
Failed to enable Gratuitous ARP, Completion Code=80h
```



**Note:** Gratuitous ARP includes Gratuitous ARP requests and replies, updating ARP tables to map MAC addresses and IP addresses. Due to security concerns, it is not supported by default for most network devices. If you want to use this function, please make sure the Gratuitous ARP function is enabled on your network devices.

#### • Example 7. Showing the IPv6 mode.

```
[ipmicfg_HOME] > IPMICFG.exe -ipv6 mode
Current IPv6 mode is [Stateless]
Supported IPv6 modes:
0:Stateless
1:Stateful
2:Disabled
```

#### • Example 8. Showing IPv6 auto configuration.

```
[ipmicfg_HOME] > IPMICFG.exe -ipv6 autoconfig
Auto Configuration is currently enabled.
```

#### • Example 9. Listing IPv6 static and dynamic addresses.

```
[ipmicfg_HOME] > IPMICFG.exe -ipv6 list
Maximum number of IPv6 static address: 5
ID | IPv6 Static Address
                                      | Prefix
-- | -----
                                      | -----
0 | FE80:0000:0000:0000:0225:90FF:FEEE:59E5 | 64
1 | 3333:2222:0000:0000:0000:0000:0000 |
                                          32
2 | Disabled
                                       | N/A
3 | Disabled
                                       | N/A
4 | FE80:0000:0000:0000:0225:90FF:FEEE:59E9 | 64
Maximum number of IPv6 dynamic address: 4
ID | IPv6 Dynamic Address
                                      | Prefix
-- | -----
                                      | -----
  | FE80:0000:0000:0000:0225:90FF:FEEE:59F1 | 64
```

#### • Example 10. Displaying IPv6 static router info.

#### • Example 11. Showing IP address protocol.

```
[ipmicfg_HOME] > IPMICFG.exe -addrptl
Address Protocol is [ Dual ]
Address Protocol Types:
1:IPv4
2:IPv6
3:Dual
```

#### • Example 12. Setting up an IP address protocol.

```
[ipmicfg_HOME] > IPMICFG.exe -addrptl 3
Done.
```

#### • Example 13. Checking the system's status mode.

```
[ipmicfg_HOME] > IPMICFG.exe -lockdown
System Lockdown Mode: Unlocked
```

#### • Example 14. Checking the BMC LAN interface.

```
[ipmicfg_HOME] > IPMICFG.exe -lani
Current LAN interface is [ Failover ]
Supported parameter for setting:
0: Dedicated
1: Shared
```

2: Failover

#### • Example 15. Setting the BMC LAN interface to Dedicated.

```
[ipmicfg_HOME] > IPMICFG.exe -lani 0
Done.
```

#### • Example 16. Checking the BMC network link status.

```
[ipmicfg_HOME] > IPMICFG.exe -linkstatus

General
-----

Hostname :

MAC Address : 3C:EC:EF:C6:34:7C

VLAN : OFF

VLAN ID : N/A

LAN Interface : Failover

RMCP Port : 623
```

Active Interface : Share

Dedicated
----Link : Auto Negotiation

Status : Disconnected

Speed : Unknown

Duplex : Unknown

Share

-----

Status : Connected

Speed : 1G

Duplex : Full Duplex

# 3.2 IPMI Management Functions

Options	Descriptions	
-r	Performs a BMC cold reset.	
-fd <option></option>	Resets to the factory defaults without preserving configurations.	
	*To meet various needs, set [option] to 1, 2, or 3.	
	1: Preserves the configurations in the "Users" section.	
	2: Restores the factory defaults and the default password of the	
	motherboard.	
	3: Sets user's password to ADMIN.	
-fdl	Resets IPMI to the factory default. (Clean LAN).	
-fde	Resets IPMI to the factory default. (Clean FRU & LAN).	
-d	Detects if a BMC reset was successfully performed on the IPMI device.	
	Note that this option can be only used after -r, -fd, -fdl or -	
	fde.	
-ver	Gets firmware revision.	
-vlan	Gets VLAN status.	
-vlan on <vlan tag=""></vlan>	Enables the VLAN and sets the VLAN tag.	
	If VLAN tag is not given, it uses the previously saved value.	
-vlan off	Disables the VLAN.	
-selftest	Checks and reports the basic health status of the BMC.	
-raw	Sends a RAW IPMI request and prints a response.	
	*Command format: NetFn/LUN Cmd [Data1 DataN]	
-fan	Gets the fan mode.	
-fan <mode></mode>	Sets the fan mode.	
	*Mode parameters, such as 0 or 1, may vary by motherboards	
-clrint	Clears chassis intrusion.	
-reset <index></index>	Resets system and forces to boot from the selected device.	
	*For the list of index options for a reboot device, please find it in the	
	note below.	
-soft <index></index>	Initiates a soft-shutdown for OS and forces system to boot from the	
	selected device.	
	*For the list of index options for a reboot device, please find it in the	
	note below.	
-summary	Displays FW and BIOS information.	

Options	Descriptions
-hostname [value]	Gets/Sets a host name.
-mel list	Shows BMC maintenance event log.
-mel download <file></file>	Downloads a BMC maintenance event log to a file.
-mel clear	Clears a BMC maintenance event log.



**Note:** This is the list of index options for a reboot device.

Index Option	Reboot Device
1	PXE
2	Hard-drive
3	CD/DVD
4	Bios
5	USB KEY
6	USB HDD
7	USB Floppy
8	USB CD/DVD
9	UEFI Hard-drive
10	UEFI CD/DVD
11	UEFI USB KEY
12	UEFI USB HDD
13	UEFI USB CD/DVD
14	UEFI PXE

#### 3.2.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

• Example 1. Performing a BMC cold reset.

```
[ipmicfg_HOME] > IPMICFG.exe -r
BMC cold reset successfully completed!
```

• Example 2. Resetting IPMI to the factory default.

```
[ipmicfg_HOME] > IPMICFG.exe -fd 2
Reset to the factory default completed.
```

• Example 3. Getting the firmware revision.

```
[ipmicfg_HOME] > IPMICFG.exe -ver
Firmware Version: 01.87
```

• Example 4. Getting the VLAN status.

```
[ipmicfg_HOME] > IPMICFG.exe -vlan
VLAN is now disabled.
```

• Example 5. Checking and reporting the basic health status of the BMC.

```
[ipmicfg_HOME] > IPMICFG.exe -selftest
Selftest: Passed.
```

• Example 6. Sending a RAW IPMI request and printing a response.

```
[ipmicfg_HOME] > IPMICFG.exe -raw 6 1
20 01 03 19 02 BF 7C 2A 00 34 06
```

• Example 7. Getting the fan mode.

```
[ipmicfg_HOME] > IPMICFG.exe -fan
Current Fan Speed Mode is [ Optimal Mode ]
Parameter for setting:
0: Standard
1: Full
2: Optimal
```



**Note:** Eight types of fan modes are supported: 0: Standard, 1: Full, 2: Optimal, 3: PUE2 Optimal, 4: Heavy IO, 5: PUE3 Optimal, 6: Liquid Cooling and 7: Smart Speed. To find out the available fan modes on your system, use the "-fan" command.

#### • Example 8. Setting the fan mode.

```
[ipmicfg_HOME] > IPMICFG.exe -fan 0
Done.
```

#### • Example 9. Clearing chassis intrusion.

```
[ipmicfg_HOME] > IPMICFG.exe -clrint
Done.
```

Example 10. Resetting the system and forcing it to boot from the selected device.

```
[ipmicfg_HOME] > IPMICFG.exe -reset 0
Done.
```

• Example 11. Initiating a soft-shutdown for OS and forcing the system to boot from the selected device.

```
[ipmicfg_HOME] > IPMICFG.exe -soft 0
Done.
```

#### • Example 12. Displaying FW and BIOS information.

```
[ipmicfg_HOME] > IPMICFG.exe -summary
Summary
```

-----

IP : 10.136.33.107

MAC Address : 00:25:90:EE:58:E7

Firmware Revision : 2.18

Firmware Build Date : 09/17/2015

BIOS Version : 1.0

BIOS Build Date : 11/13/2013

System MAC Address 1 : 00:25:90:E8:70:64
System MAC Address 2 : 00:25:90:E8:70:65

#### • Example 13. Setting a host name.

```
[ipmicfg_HOME] > IPMICFG.exe -hostname dnsserver
Done.
```

#### • Example 14. Listing BMC maintenance log.

[ipmicfg HOME] > IPMICFG.exe -mel list

------

Event:1 Time:2020/06/09 13:30:02 Interface:RMCP User:ADMIN(ADMIN) Source:10.159.128.244 Desc:IPMI configuration was restored to default successfully.

\_\_\_\_\_

Event:2 Time:2020/06/09 13:30:02 Interface:RMCP User:ADMIN(ADMIN) Source:10.159.128.244 Desc:BMC was reset successfully.

\_\_\_\_\_\_

Event:3 Time:2020/06/09 14:00:34 Interface:KCS User:ADMIN(ADMIN) Source:Localhost Desc:SOL was configured enable successfully.

\_\_\_\_\_

Event:4 Time:2020/06/09 14:01:08 Interface:Redfish User:ADMIN(ADMIN) Source:10.138.160.64 Desc:Redfish session was created successfully.

\_\_\_\_\_

Event:5 Time:2020/06/09 14:01:08 Interface:Web User:ADMIN(ADMIN) Source:10.138.160.64 Desc:Web login was successful.

\_\_\_\_\_\_

#### • Example 15. Downloading a BMC maintenance log to a file.

[ipmicfg\_HOME] > IPMICFG.exe -mel download mel.txt
Downloaded file successfully.



**Note:** The "-mel download" command is not supported when you see the "Prepare download file timeout" message.

# 3.3 Node Management (NM) 2.0 Functions

Options	Descriptions
-nm nmsdr	Displays NM SDR.
-nm seltime	Gets SEL time.
-nm deviceid	Gets the ID of an ME device.
-nm reset	Reboots ME.
-nm reset2default	Forces ME to reset to default settings.
-nm updatemode	Forces ME to enter the update mode.
-nm selftest	Gets self-test results.
-nm listimagesinfo	Lists ME information of images.
-nm oemgetpower	OEM Power command for ME.
-nm oemgettemp	OEM Temp. command for ME.
-nm pstate	Gets the maximum allowed CPU P-State.
-nm tstate	Gets the maximum allowed CPU T-State.
-nm cpumemtemp	Gets CPU/memory temperature.
-nm hostcpudata	Gets the host CPU data.

#### 3.3.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Displaying NM SDR.

```
[ipmicfg HOME] > IPMICFG.exe -nm nmsdr
Record ID
                  = A7 08
SDR Version
                 = 51h
Record Type
                  = C0h
Record Length
                 = 0Bh
OEM ID
                 = 57 01 00 h
Record Subtype
                 = 0 Dh
Subtype Version
                 = 01h
Salve Address
                 = 2Ch
Channel
                  = 00h
Health Event Sensor Number
                                     = 1Dh
Exception Event Sensor Number
                                      = 1Eh
Operational Capabilities Sensor Number = 1Fh
Alert Threshold Exceeded Sensor Number = 20h
```

#### • Example 2. Getting the ID of an ME device.

#### • Example 3. Listing information of ME images.

```
[ipmicfg_HOME] > IPMICFG.exe -nm listimagesinfo
Recovery Image:
Image Type = Recovery image
raw = 57 01 00 02 01 02 09 55 00
```

#### • Example 4. Getting self-test results.

```
[ipmicfg_HOME] > IPMICFG.exe -nm selftest
PSU Monitoring service error. < 80 03 >
PSU[1] is not responding.
PSU[2] is not responding.
```

#### • Example 5. Getting CPU and memory temperature.

```
[ipmicfg_HOME] > IPMICFG.exe -nm cpumemtemp
CPU#0 = 43(c)
CPU#1 = 44(c)
[CPU#0]CHANNEL#1, DIMM#0 = 39(c)
[CPU#1]CHANNEL#3, DIMM#0 = 31(c)
```

#### • Example 6. Getting the host CPU data.

```
[ipmicfg_HOME] > IPMICFG.exe -nm hostcpudata
Host CPU data:
End of POST notification was received
Host CPU discovery data provided with that command is valid
Number of P-States = 10
Number of T-States = 15
Number of installed CPUs/socket = 2
Processor Discovery Data-1 = 19 19 18 18 17 17 17 17
Processor Discovery Data-2 = 00 00 00 00 00 00 00
```

# 3.4 IPMI User & Configuration Management Functions

Options	Descriptions
-pminfo [full]	Displays PMBus health information of power supply.
-psfruinfo	Displays FRU health information of power supply.
-psbbpinfo	Displays status of the backup battery.
-autodischarge	Sets auto discharge by days.
<module> <day></day></module>	
-discharge	Manually discharges a battery.
<module></module>	
-user list	Lists user privileges.
-user help	Shows a user privilege code.
-user add <user id=""></user>	Adds a user.
<user name=""></user>	* For the list of privilege levels, please find it in the note below.
<password></password>	
<privilege></privilege>	
-user del <user id=""></user>	Deletes users.
-user level <user id=""></user>	Updates user privileges.
<privilege></privilege>	
-user setpwd	Updates a user password.
<user id=""></user>	
<password></password>	
-conf download <file></file>	Downloads IPMI configuration to a binary file.
-conf upload	Uploads IPMI configuration from a binary file.
<file> <option></option></file>	*To bypass a warning message, use the option -p.
-conf tdownload	Downloads IPMI configuration to a text file.
<file></file>	
-conf tupload <file></file>	Uploads IPMI configuration from a text file.
<option></option>	*To bypass a warning message, use the option -p.



**Note:** This is the list of privilege levels.

Level	Privilege
15	No Access
1	Callback
2	User
3	Operator
4	Administrator

### **3.4.1 Examples of Command Executions**

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Displaying PMBus health information of the power supply.

1 1 7 0		•
<pre>[ipmicfg_HOME] &gt; IPMICFG.e</pre>	xe -pm	ninfo
[SlaveAddress = 78h] [Modu	le 1]	
Item	1	Value
	1	
Status	1	[STATUS OK] (00h)
AC Input Voltage	1	121.5 V
AC Input Current	1	0.56 A
DC 12V Output Voltage	1	12.19 V
DC 12V Output Current	1	3.18 A
Temperature 1	1	43C/109F
Temperature 2	1	41C/106F
Fan 1	1	224 RPM
Fan 2	1	0 RPM
DC 12V Output Power	1	42 W
AC Input Power	1	65 W
PMBus Revision	1	0x8B22
PWS Serial Number	1	P441PAC17GW2358
PWS Module Number	1	PWS-441P-1H
PWS Revision	1	REV1.0

#### • Example 2. Displaying FRU health information of the power supply.



**Note:** If the system does not support the "-psfruinfo" command, please try the "-pminfo" command to get PSU information.

#### • Example 3. Displays status of the backup bettery.

[ipmicfg_HOME] > IPMIC	CFG.exe -psbbpinfo
[SlaveAddress = 70h]	[Module 1]
Item	Value
	I
Manufacturer	SUPERMICRO
Model Name	PWS-206B-1R
Serial Number	TEST1234567890A
Product Version	1.2
Firmware version	1.0
	I
Battery Voltage	16.27 V
Battery Current	0 mA
Battery Pack Temp	30C/86F
Board Temp	N/A
Power Wattage	200W
Cycle Count	1 6
	I
Battery Power Status	Normal
Remaining Energy	99%
Discharge Status	None
Discharge Setting	Auto (30 days)
Discharge Remaining Da	ays   30 days
Battery Status	0xC0E0
	[FULLY CHARGED]

```
[DISCHARGING]

[TERMINATE CHARGE]
```

#### • Example 4. Listing user privileges.

(In this example, two users are enabled by default, and one user is hidden in the command line.)

#### • Example 5. Adding a user.

```
[ipmicfg_HOME] > IPMICFG.exe -user add 3 ADMINTEST TESTADMIN 4
```

#### • Example 6. Downloading IPMI configuration to a binary file.

```
[ipmicfg_HOME] > IPMICFG.exe -conf download ipmi.cfg.txt
Downloaded file successfully
```

#### • Example 7. Uploads IPMI configuration from a binary file.

```
[ipmicfg_HOME] > IPMICFG.exe -conf upload ipmi.cfg.txt
This function may reboot the IPMI device.
Do you want to proceed?[y/n]: y
Uploaded file successfully
Please wait for 1 minute to reboot the BMC.
```



#### Notes:

- The "-conf (t) download" command is not supported when you see the "Prepare download file timeout" message.
- The "-conf (t) upload" command is not supported when you see the "Upload file failed, Completion Code=xxh" message.
- The "-conf tdownload" and "-conf tupload" commands are only used to download and upload the BMC IPv4 configurations, including an IP address, a MAC address, a subnet mask, a gateway, and DHCP status.

# 3.5 IPMI Sensor & System Event Management

Options	Descriptions
-sel info	Shows SEL information.
-sel list	Shows SEL records.
-sel del	Deletes all SEL records.
-sel raw	Shows SEL raw data.
-sdr [full]	Shows SDR records and readings.
-sdr del <sdr id=""></sdr>	Deletes the SDR record.
-sdr ver <v1> <v2></v2></v1>	Gets/Sets the SDR version. ( <v1> and <v2> are BCD-format.)</v2></v1>

#### 3.5.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Showing SEL records.

```
[ipmicfg_HOME] > IPMICFG.exe -sel list
------
Event:1 Time:2023-02-10 15:38:05 Severity:Warning SensorType:System NIC
| Msg = [LAN-0006] Dedicated LAN Link Down - Assertion
```

#### • Example 2. Showing SEL raw data.

```
[ipmicfg_HOME] > IPMICFG.exe -sel raw
SEL( 1) 01 00 02 48 00 00 00 20 00 04 05 51 6F F0 FF FF
```

#### • Example 3. Showing SDR records and readings.

[ipmicf	g_I	HOME] > IPMICFG.exe -se	dr	J				
Status	1	(#)Sensor		Reading	I	Low Limit	1	High Limit
	-							
OK		(4) CPU1 Temp		44C/111F		0C/32F		86C/187F
OK		(71) CPU2 Temp		44C/111F		0C/32F		86C/187F
OK	-	(138) System Temp		31C/88F		-5C/23F	-	80C/176F
OK	-	(205) Peripheral Temp		44C/111F		-5C/23F	-	80C/176F
OK	-	(272) PCH Temp		57C/135F		-5C/23F	-	90C/194F
OK	-	(339) FAN1		1800 RPM		600 RPM	-	18975 RPM
OK	-	(406) FAN2		1800 RPM		600 RPM		18975 RPM
	-	(473) FAN3		N/A		N/A	-	N/A
	-	(540) FAN4		N/A		N/A	-	N/A
		(607) FAN5		N/A		N/A		N/A
		(674) FAN6		N/A		N/A		N/A
	-	(741) FAN7		N/A		N/A	-	N/A
	-	(808) FAN8		N/A		N/A	-	N/A
OK		(875) VTT		1.05 V	1	0.91 V		1.34 V
OK	-	(942) CPU1 Vcore		0.89 V	1	0.54 V	-	1.48 V
OK		(1009) CPU2 Vcore		0.76 V	1	0.54 V		1.48 V
OK		(1076) VDIMM ABCD		1.48 V	1	1.20 V		1.64 V
OK		(1143) VDIMM EFGH		1.50 V	1	1.20 V		1.64 V
OK		(1210) +1.5 V		1.47 V	1	1.34 V		1.64 V
OK	-	(1277) 3.3V		3.31 V	1	2.92 V	-	3.64 V
OK	-	(1344) +3.3VSB		3.31 V	1	2.92 V	-	3.64 V
OK	-	(1411) 5V		5.05 V	1	4.48 V	-	5.50 V
OK	-	(1478) 12V		12.29 V		10.81 V		13.25 V
OK	-	(1545) VBAT		3.26 V	1	2.68 V		3.31 V
OK	-	(1612) HDD Status		0.00	1	2.68 V	I	3.31 V
Fail		(1679) Chassis Intru		01 CO 01 OO		N/A		N/A
OK		(1746) PS1 Status		01 C0 01 00		N/A	I	N/A

# 3.6 FRU Management

Options	Descriptions				
-fru info	Shows information of the FRU inventory area.				
-fru list	Shows all FRU values.				
-fru cthelp	Shows chassis type code.				
-fru help	Shows help of FRU Write.				
-fru <field></field>	Shows FRU field value.				
-fru <field> <value></value></field>	Writes FRU.				
-fru backup <file></file>	Backs up FRU to a file <binary format="">.</binary>				
-fru restore <file></file>	Restores FRU from a file <binary format="">.</binary>				
-fru tbackup <file></file>	Backs up FRU to a file <text format="">.</text>				
-fru trestore <file></file>	Restores FRU from a file <text format="">.</text>				
-fru ver <v1> <v2></v2></v1>	Gets/Sets the FRU version.				
	* <v1> and <v2> are BCD-format.)</v2></v1>				
-fru dmi <\$1> <\$2>	Inputs 14 parameters and writes to FRU Chassis/Board/Product fields.				
<\$3> <\$4> <\$5> <\$6>	\$1 PRODUCT Manufacturer Name				
<\$7> <\$8> <\$9>	\$2 PRODUCT Product Name				
<\$10><\$11><\$12>	\$3 PRODUCT Part Number				
<\$13><\$14>	\$4 PRODUCT Product Version				
	\$5 PRODUCT Serial Number				
	\$6 PRODUCT Asset Tag				
	\$7 BOARD mfg/DateTime				
	\$8 BOARD Board Manufacturer				
	\$9 BOARD Product Name				
	\$10 BOARD Part Number				
	\$11 BOARD Serial Number				
	\$12 CHASSIS Type (HEX value, ex:01,02,03)				
	\$13 CHASSIS Part Number				
	\$14 CHASSIS Serial Number				

### **3.6.1 Examples of Command Executions**

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Showing information of the FRU inventory area.

[ipmicfg\_HOME] > IPMICFG.exe -fru info
FRU size: 1024 bytes

#### • Example 2. Showing help of FRU Write.

```
[ipmicfg_HOME] > IPMICFG.exe -fru help
Available Fields for FRU
Chassis Info Fields:
CT ; Chassis Type
CP ; Chassis Part Number
CS ; Chassis Serial Number
Board Info Fields:
BDT ;Board Mfg. Date/Time (YYYYMMDDhhmm)
BM ; Board Manufacturer
BPN ; Board Product Name
BS ; Board Serial Name
BP ; Board Part Number
Product Info Fields:
PM ; Product Manufacturer
PN ; Product Name
PPM ; Product Part/Model Number
PV ; Product Version
PS ; Product Serial Number
PAT ; Asset Tag
Example:
ipmicfg -fru PS
                             ;read product serial number
ipmicfg -fru PS 123456789 ;write product serial number
```

#### • Example 3. Writing FRU.

[ipmicfg HOME] > IPMICFG.exe -fru BDT 201211121631 Chassis Type (CT) = Unknown (02h) Chassis Part Number (CP) Chassis Serial Number (CS) = 0123456789Board Mfg. Date/Time(BDT) = 2012/11/12 16:31:00 (DF 5D 87) Board Manufacturer (BM) = Supermicro Board Product Name (BPN) = X9DRD-iF = 0123456789 Board Serial Number (BS) Board Part Number (BP) Product Manufacturer (PM) = Supermicro Product Name (PN) = X9DRD-iF Product Part/Model Number (PPM) = Product Version (PV) Product Serial Number (PS) = 0123456789

#### • Example 4. Backing up FRU to a file.

Product Asset Tag (PAT)

[ipmicfg\_HOME] > IPMICFG.exe -fru backup fru.txt
Backed up FRU successfully.

#### • Example 5. Setting the FRU version.

[ipmicfg\_HOME] > IPMICFG.exe -fru ver 1 1
Done.
FRU version is 01.01

# 3.7 Multi Node Management

Options	Descriptions
-tp info	Gets MCU information.
-tp info <type></type>	Gets information of MCU type.
	*Type parameters are 1, 2 and 3.
-tp nodeid	Gets a node ID.
-tp systemname	Gets/Sets a system name.
[value]	
-tp systempn [value]	Gets/Sets a system P/N.
-tp systemsn [value]	Gets/Sets a system S/N.
-tp chassispn [value]	Gets/Sets a chassis P/N.
-tp chassissn [value]	Gets/Sets a chassis S/N.
-tp backplanepn	Gets/Sets a backplane P/N.
[value]	
-tp backplanesn	Gets/Sets a backplane S/N.
[value]	
-tp nodepn [value]	Gets/Sets a node P/N.
-tp nodesn [value]	Gets/Sets a node S/N.

#### 3.7.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

#### • Example 1: Getting MCU information.

```
[ipmicfg HOME] > IPMICFG.exe -tp info
Node | Power | IP
                            | Watts | Current | CPU1 | CPU2 | System
---- | ------ | ------ | ----- | ----- | ----- | ----- | -----
  A | Active | 10.136.33.31 | 35W | 3.4A | 42C | N/A |
  B | Active | 10.136.33.32
                            | 27W | 2.2A | 43C | N/A |
                                                            31C
  C | Active | 10.136.33.33 | 46W | 3.8A | 45C | N/A |
                                                            29C
   D | Active | 10.136.33.34 | 24W | 2.0A | 39C | N/A |
                                                             30C
Node | Node P/N
                        | Node S/N
---- | -----
                        | -----
                        | ZM141S022841
  A | X9DRT-P
                        | ZM141S023245
  B | X9DRT-P
  C | X9DRT-P
                        | ZM141S022861
```

D | X9DRT-P | ZM141S022860

Configuration ID : 4 Current Node ID : B System Name : Test System P/N : (Empty) System S/N : (Empty) Chassis P/N : (Empty) Chassis S/N : (Empty) BackPlane P/N : (Empty) BackPlane S/N : (Empty) Chassis Location : 00 00 00 00 00

BP Location : N/A (FBh)

MCU Version : 1.06
BPN Revision : 1.23

#### • Example 2. Getting information of MCU type.

[ipmicfg HOME] > IPMICFG.exe -tp info 1

Node	Power		IP		Watts		Current		CPU1		CPU2		System
								1					
A	Active		10.136.33.31		35W		3.4A		42C		N/A		31C
В	Active		10.136.33.32		27W		2.2A		43C		N/A		31C
C	Active		10.136.33.33		46W		3.8A		45C		N/A		29C
DΙ	Active	ı	10.136.33.34	ı	2.4W	ı	2.0A	ı	39C	ı	N/A	ı	30C

#### • Example 3. Getting a node ID.

[ipmicfg\_HOME] > IPMICFG.exe -tp nodeid

#### • Example 4. Setting the MCU's backplane P/N.

[ipmicfg\_HOME] > IPMICFG.exe -tp backplanepn BPN-PDB-F418
Done

#### • Example 5. Getting the MCU's backplane P/N.

[ipmicfg\_HOME] > IPMICFG.exe -tp backplanepn
BPN-PDB-F418

# 3.8 TAS Management

Options	Descriptions
-tas info	Gets TAS information.
-tas pause	Pauses a TAS service.
-tas resume	Resumes a TAS service.
-tas refresh	Triggers TAS to recollect data.
-tas clear	Clears collected TAS data in BMC.
-tas period <sec></sec>	Sets the time length of a TAS update <limit 1="" 60="" sec="" to="">.</limit>
-tas exec <cmd></cmd>	Executes a user's specified command.



Note: The "-tas" command set is not supported on DOS and UEFI Shell.

#### 3.8.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Getting TAS information.

[ipmicfg_HOME] >	IPMICFG.exe	-tas	info		
Item				V	/alue
	I			-	
Version	I			1	.1.1
Build Data	1			1	50923
Protocol Version	1				0x01
Status	1			Rui	nning
TAS Start Time	Mon	Nov 2	3 13:39	:35	2015
Last Update Time	Thu	Dec 1	0 17:21	:00	2015

#### • Example 2. Pausing a TAS service.

[ipmicfg\_HOME] > IPMICFG.exe -tas pause
Done.

#### • Example 3. Resuming a TAS service.

[ipmicfg\_HOME] > IPMICFG.exe -tas resume
Done.

# 3.9 NVME Management

Options	Descriptions	Requirement of TAS running on management systems
-nvme list	Displays the existing NVME SSD list.	Yes
-nvme info	Displays NVME SSD information.	No
-nvme rescan	Rescans all devices by in-band.	Yes
-nvme insert <aoc> <group> <slot></slot></group></aoc>	Inserts SSD by out-of-band.	No
-nvme locate <hdd name=""></hdd>	Locates SSD. (in-band)	Yes
-nvme locate <aoc> <group> <slot></slot></group></aoc>	Locates SSD. (out-of-band)	No
-nvme stoplocate <hdd name=""></hdd>	Stops locating SSD. (in-band)	Yes
-nvme stoplocate <aoc> <group> <slot></slot></group></aoc>	Stops locating SSD. (out-of-band)	No
-nvme remove <hdd name=""> [option1] [option2]</hdd>	Removes NVME device. (in-band)  *To disconnect an NVME device on the OS and then eject from BMC, by default, use 0 for [option1].  *To disconnect an NVME device on the OS but not eject from BMC afterwards, use 1 for [option1].  *To bypass a warning message, use -p for [option2].	Yes
-nvme remove <aoc> <group> <slot> [option]</slot></group></aoc>	Removes NVME device. (out-of-band)  *To bypass a warning message, use the option -p.	No
-nvme smartdata [HDD name]	NVME S.M.A.R.T data.	Yes



#### Notes:

- The "-nvme" command set is not supported on DOS and UEFI shells.
- The "-nvme insert" and "-nvme remove" commands are not supported on ESXi.
- If you do not have the info of "AOC," "Group," and "Slot" to run out-of-band commands, execute the "-nvme info" command.

### **3.9.1 Examples of Command Executions**

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Displaying NVMe SSD information.

[ipmicfg_HOME] > IPMICFG.e	xe -nv	me info
[AOC Number: 0] [Firmware	Info:	00 00][Rev: 00]
Item		Value
	I	
Slot	I	0
Located	-	NO
OOB Temp.	-	36 C
Class Code	-	02 08 01
ID		80 86
Serial Number		CVMD44500004400FGN
Model Number	-	INTEL SSDPE2ME400G4
Port0 Max Link Speed		8.0 GT/s
Port0 Max Link Width	I	x4
Port1 Max Link Speed		8.0 GT/s
Port1 Max Link Width	I	x4
Init Power Requirement	I	25 Watts
Max Power Requirement	I	25 Watts
Item	1	Value
	I	
Slot	I	1
Located	I	NO
OOB Temp.	I	34 C
Class Code		88 88 88
ID		80 86
Serial Number		PHLF723600Z04P0IGN
Model Number	I	INTEL SSDPE2KX040T7
Port0 Max Link Speed	1	N/A
Port0 Max Link Width	1	Unknown
Port1 Max Link Speed	1	N/A
Portl Max Link Width	I	Unknown
Init Power Requirement	I	0 Watts
Max Power Requirement	I	0 Watts
End	of Gro	up (0)

#### • Example 2. Inserting an SSD by out-of-band access.

[ipmicfg\_HOME] > IPMICFG.exe -nvme insert 0 0 0
Done

#### • Example 3. Locating an SSD by out-of-band access.

[ipmicfg\_HOME] > IPMICFG.exe -nvme locate 0 0 0
Done

#### • Example 4. Removing an NVMe device.

[ipmicfg\_HOME] > IPMICFG.exe -nvme remove nvme0 -p
Sending in band remove command...
Done.
Waiting for 10 secs to remove device...
Sending OOB eject command...
Done.

#### • Example 5. Displaying the existing NVMe SSD list.

[ipmicfg\_HOME] > IPMICFG.exe -nvme list
Name | Vendor | Capacity | IB Temp. | Locate | Slot
---- | ----- | ------ | ----- | ----- | Nvme0 | INTEL SSDPE2ME400G4 | 372.6 GB | 25 C | No | 0

### 3.10 DCMI Management

Options	Descriptions
-dcmi cap	Lists information of DCMI capabilities.
-dcmi power	Gets the DCMI power readings.
-dcmi ctl [value]	Gets/Sets the DCMI management controller ID string.

#### 3.10.1 Examples of Command Executions

The following are selected options from the above table to illustrate their execution.

#### • Example 1. Listing info of DCMI capabilities.

```
[ipmicfg HOME] > IPMICFG.exe -dcmi cap
Mandatory Platform Capabilities
_____
Temperature Monitor | Compliant
Chassis Power
                    | Compliant
                    | Compliant
SEL Logging
Identification Support | Compliant
Optional Platform Capabilities
_____
Power Management | Compliant
Manageability Access Capabilities
VLAN Capable
                              | Available
SOL Supported
                               | Available
OOB Primary LAN Channel Available | Available
OOB Secondary LAN Channel Available | Not Present
OOB Serial TMODE Available | Not Present
In-Band KCS Channel Available | Available
SEL Attributes
SEL Automatic Rollover Enabled | Not Present
Number Of SEL Entries
                               | 0
Identification Attributes
```

```
_____
Asset Tag Support | Available
DHCP Host Name Support | Not Present
GUID Support
             | Available
Temperature Monitoring
_____
Baseboard temperature | At least 1
Processors temperature | At least 1
Power Management Device Slave Address
_____
7-bit I2C Slave Address Of Device On IPMB | 10h
Power Management Controller Channel Number
_____
Channel Number | 00h
Device Revision | 01h
Manageability Access Attributes
_____
Mandatory Primary LAN OOB Support (RMCP+ Support Only) | Supported
Optional Secondary LAN OOB Support (RMCP+ Support Only) | Not Supported
```

#### • Example 2. Getting the DCMI power readings.

[ ---- --- HOME] > IDMICEC ----

Optional Serial OOB TMODE Capability

[ipmicig_HOME] > IPMICFG.exe -dcmi power	
Instantaneous Power Reading	14 Watts
Minimum During Sampling Period	6 Watts
Maximum During Sampling Period	86 Watts
Average Power Reading Over Sample Period	15 Watts
IPMI Timestamp	2017/02/24 14:00:22
Sampling Period	172705000 Milliseconds
Power Reading State	Activated

#### • Example 3. Getting or setting the DCMI management controller ID string.

```
[ipmicfg_HOME] > IPMICFG.exe -dcmi ctl
(Empty)
```

| Not Supported

# **4 Third Party Software**

# 4.1 IPMI Tool

Please refer to <a href="http://sourceforge.net/projects/ipmitool">http://sourceforge.net/projects/ipmitool</a> for more information.

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