DELL™ PowerEdge™ Systems

Using the C410x Baseboard Management Controller



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer



CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

This section introduces the C410x Baseboard Management Controller (BMC) and includes the requirements for web-based graphical user interface (GUI)

BMC Key Features and Functions

- Support for IPMI v2.0
- Out-of-band monitoring and control for sever management over LAN.
- Helps in generating FRU information report ,which includes main board part number, product name, manufacturer and so on.)
- Health status/Hardware monitoring report.
- View and clear events log.
- Event notification through Platform Event Trap (PET).
- Platform Event Filtering (PEF) to take selected action for selected events.
- Chassis management includespower control, status report, front panel buttons, and LEDs control.
- Support multi-session user, and alert destination for LAN channel.

2

Using the Web UI

The BMC firmware features an embedded web server, enabling users to connect to the BMC using an Internet browser (Microsoft Internet Explore).

The web server supports four concurrent connections

Web-based GUI is supported on the following browsers:

Microsoft Windows:

- Internet Explorer 6 and 7
- Mozilla Firefox 2.0 or later

Linux:

Mozilla Firefox 2.0 or later

Chapters 3 to 6 describe the various features available on the UI.

3

Remote Management Console Overview

- 1. Open a web browser and type in your identified IP. The IP address can be found using your DHCP server.
- 2. A dialog box prompts you to enter Username and Password.
- **3.** Enter the following values:

Username: **root** Password: **root**

DØLL	
	Lagon to
	Username:
	Password:
	OK Cancel

Enter Dell Remote Management Console

After you successfully log in to your Dell Remote Management Console, the Remote Management Console GUI appears.

Properties

The Properties page displays the firmware version of the current remote client system.

DELL			Welcome root (Administrator) !
BMC <u>Incontrol</u> Configuration Network Security Users Incontrol PMI Sessions Uddate Urable Service Information Control Power Consumption E PCIE	Properties Information	2.11	
Power Consumption Temperatures System Event Log Event Management Event Management Trap Settings Email Settings Port Map			

Configuration

Network

You can view and modify the network settings on this screen. Select whether to obtain an IP address automatically or configure one manually. It is recommended to use DHCP if your environment has a DHCP server. You can set DHCP (obtain the IP address automatically) or STATIC IP (configure the IP address manually). When you finish configuration, click **Apply Changes** or for re-configuration click **Refresh**.



Security

The Security page shows the current certificate status.

- 1 To generate a new certificate, click **Generate Certificate**.
- 2 To upload a certificate, click Upload Certificate.

D¢LL		Welcome root (Administrator) !
BMC Properties Econfiguration Network GREURIS Users Services IPMI Sessions	Security Current Certificate:	Generate Certificate Uplaced Certificate
Update State Control State State Control Control Power Consumption Power Consumption	Serial Busher : 00 Dollert Ide (11) Doct (2) Deta: (

Users

To configure a specific user, click the Users ID. To display new user information, click **Refresh**.

NOTE: BMC convention for enabling an 'anonymous' login is to configure the entry for User ID 1 with a null username (all zero's) and a null password (all zero's). Applications may then present this to the user as an anonymous login.

D State Disabled Enabled	User Name	User Role	IDIRI AND DATE	
Disabled Enabled			Phill LAN Privilege	IPMI Serial Privilege
Enabled		None	Administrator	Administrator
	toot	Administrator	Administrator	Administrator
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
Disabled		None	None	None
	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel Drashiel	Daabled None Daabled None	Dasbled None None Dasbled None None

Users | 12

Services

You can configure the web server parameters (such as, HTTP Port Number, HTTPS Port Number, and Timeout) on a remote computer. By default, the timeout is 1800 seconds; 5 for the Max Sessions.

When you finish the configuration, click Apply Changes.

DELL			Welcome root (Administrator) !
BMC Properties Configuration Network Security Users Betrytce Total	Services Web Server		Apply Changes
Sessions	HTTP Port Number	80	
Utilities	HTTPS Port Number	443	
Server Information Power	Timeout	1800 seconds	
Control Power Consumption	Max Sessions	5	
PCIE	Active Sessions	2	
Fans Temperatures System Event Logies Factor News Factor News Email Settings Port Map			

IPMI

The IPMI page contains two tabs: IPMI Serial and IPMI Settings.

IPMI Serial

There are three serial configuration in IPMI Serial: Connection Mode Settings, Baud Rate, and Channel Privilege Level Limit.

The Connection Mode Settings allows user to select the Console redirection type and to manage the system from a remote location.

Once the connection mode is set, select the Baud Rate from the drop-down list.

With Channel Privilege Level Limit, users can be configured to operate with a particular maximum Privilege Level. Privilege levels tell the BMC which commands are allowed to be executed.

Users	This may be considered the lowest privilege level.
Operator	All BMC commands are allowed, except for configuration commands that can change the behavior of the out-of-band interfaces. For example, Operator privilege does not allow the capability to disable individual channels, or change user access privileges.
Administrator	All BMC commands are allowed, including configuration commands. An Administrator can even execute configuration commands that would disable the channel that the Administrator is communicating over.

rable 5-1. Channel Privilege Leve	Table 3-1.	Channel Privilege Leve
-----------------------------------	------------	------------------------

IPMI Settings

IPMI Settings provides remote configuration over LAN. To activate IPMI remote configuration by LAN, select the Enable IPMI Over LAN option, define the Channel Privilege Level Limit, and enter the Encryption Key.

When you finish the configuration, click Apply Changes.

IPMI | 14

DELL			Welcome root (Administrator) !
BMC Properties Configuration Network Security Users Services EMM	IPMI IPMI Serial		Apply Charges
Sessions Update	Connection Mode Settings	Direct Connect Terminal Mode 👻	
Server Information	Baud Rate	19.2 ktps 💌	
Power Control	Channel Privilege Level Limit	Administrator 🛩	
Fans Temperatures System Event Log	Enable IPMI Over LAN		
Temperatures System Event Log	Enable IPMI Over LAN		
Event Management	Channel Privilege Level Limit	Administrator 💌	
Trap Settings	Encryption Key	000000000000000000000000000000000000000	
Piatom Events Trap Settings Email Settings Port Map			

Sessions

This Sessions page displays information on Active Sessions. Additionally, the trash can icon provides the delete function for privileged users. Click **Refresh** to refresh the Sessions status.

DELL					Welcome root (Administrator)
BMC Properties Configuration Network Security Users Services boxt	Sessions	on about the active sessions. Addition	onally, privileged users can click on	the trash can icon to kill an active ser	Refresh
PM1 United Server Information © Perer Perer Consumption © PCIE Power Co	Session ID 1 2	User Name not root	19 Address 10 1 7 84 10 1 2 67	Session Type Oli Oli	Kui A
1					

Sessions | 16

Updates

The firmware can be updated remotely.

To update firmware, follow the instructions given below:

- 3 Select the file on your local system using **Browse**.
- 4 Select Update Type.
- 5 Select Preserve Configuration.
- 6 Click **Update** to delete the current version and update to the new version.

D¢LL				Welcome root (Administrator
BMC Properties Configuration Network Security Users	Update Select the firmware image t	to upload, then	ctick Update to begin the upload. When the upload is completed, the firmulare update begins.	
Services IPMI Sessions	ONote: During firmware up	date, if the AC	power of the server is unplugged or if the web brower is closed, iBMC will hang forever.	
Utilities	Attribute	Value		
Power	Firmware Type	BMC		
Control	File Path		29L-	
Power Consumption PCIE	Update Type	Nomal	OForced	
Power Consumption	Preserve Configuration	ONe	O Yes, to preserves the existing configuration settings, even after the firmware update.	
Event Komagement Trap Settings Enal Settings ort Map				

Utilities

The Utilities page provides BMC reboot and Factory default restore functions.

To reboot system, click Reboot.

To restore factory default setting, click Factory Default.

DELL		Welcome root (Administrator) !
BMC Properties Configuration Network Security Users Services	Utilities	
IPMI Sessions Update	Reboot Click Reboot' button to reboot the BMC. Reboot	
Server Information Power Control Power Consumption PCIE Power Consumption Thermal	Factory Default Click Factory Default button to reset BMC to default. Factory Default	
Fans Temperatures System Event Log Event Management Platform Events Trap Settings Email Settings Port Map		

Utilities | 18

Power

Control

Power Control allows you to power on/off/cycle the remote host system. Additionally you can see the remote power status.

To perform the power control operation, select the operation and click **Apply Changes**.

DEELL	Welcome root (Administrator)
BMC Propring Security Configuration Configuration Security Uses Security Down Security Power Security Power Security Security	Power Control

Power Consumption

This screen displays information on the system power consumption. The information includes Current Power Consumption, Power Consumption Monitoring Start Date, Max/Min Power Consumption, and Average Power Consumption.

DELL			Welcome root (Administrator) !
BMC Properties Configuration Network Security Users Services	Power Consumption		
pHMI Sessions Update Uddies Control Control Control EncourseColonymptoce Control Control EncourseColonymptoce Control Fants Fants System Event Log E Event Management Platform Events Trag Settingia Port Map	Connent Plever Consumption Power Consumption Monitoring Start Date Marc Power Consumption Mn Power Consumption Average Power Consumption	90W 1 328 BTUNe Sat, 26 Aug 2000 09 85 4 109W 1 288 BTUNe 60W 1 225 BTUNe 50W 1 317 BTUNe	

PCIE

Power Consumption

This page displays the status of PCIe power consumption.

Each sensor displays a different color to indicate the health status of a specified PCIe device.

Table3-2. Power Consumption Sensor Description

Ð	The green color indicates the device is healthy and there's no sensor that has any alert.
ļ	The yellow color indicates the device has at least one sensor that has warning alert.
8	The red color indicates the device has at least one sensor that has a critical alert.

Dell								
							Welcome root (Ar	dministr
BMC Properties Configuration Network Security Users	Power Co	onsumption						Refresh
Services				Warning Three	shald	Eniluse Three	hald	
IPMI Sessions	Status	Probe Name	Reading	Minimum	Maximum	Minimum	Maximum	
Update	0	PCIE 1 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Utilities	0	PCIE 2 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Server Information	0	PCIE 3 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Control	0	PCIE 4 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Power Consumption	0	PCIE 5 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
PCIE	0	PCIE 6 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Power Consumption	0	PCIE 7 Watt	0 Watts	Watts	240Watts	0Watts	252Watts	
Fans	0	PCIE 8 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Temperatures	0	PCIE 9 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
ystem Event Log	0	PCIE 10 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Event Management	0	PCIE 11 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Trap Settings	0	PCIE 12 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
Email Settings	0	PCIE 13 Watt	18 Watts	OWatts	240Watts	OWatts	252Watts	
ort Map	0	PCIE 14 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
	0	PCIE 15 Watt	0 Watts	OWatts	240Watts	OWatts	252Watts	
	0	PCIE 16 Watt	0 Watts	(Watte	240Watts	(Watts	252Watts	

Thermal

This page displays the Fans and Temperatures sensors of a remote host system. Click **Refresh** to update current health status for both Fans and Temperatures. Table3-3. Thermal Sensor Description

0	The green color indicates the device is healthy and there's no sensor that has any alert.
ļ	The yellow color indicates the device has at least one sensor that has a warning alert.
8	The red color indicates the device has at least one sensor that has a critical alert.

Fans

Fans page displays each independent system fan health status.

; perties Configuration Network Security Users Services IPMI	Fans						
ssions date liities	FIODE LIST			Manufact The		Follow The	-h-ld
ver Information	Status	Probe Name	Reading	Minimum	Maximum	Minimum	Maximum
wer	0	FAN1	6600 RPM	800RPM	N/A	500RPM	N/A
Power Consumption	0	FAN2	6500 RPM	800RPM	N/A	500RPM	NA
	the second damage of the secon	CAND	8700 DDM	ROODDM	N/A	500RPM	NA
U	0	EPAN3	0700 RFM	OUGHU III			
U ower Consumption smal	0	FAN4	6700 RPM	800RPM	N/A	500RPM	N/A
U ower Consumption ermal	0	FAN3 FAN4 FAN5	6700 RPM 6600 RPM	800RPM 800RPM	N/A N/A	500RPM 500RPM	N/A N/A
U Fower Consumption ermal emperatures Finant Log	0	FANS FANS FANS FANS	6700 RPM 6600 RPM 6600 RPM	800RPM 800RPM 800RPM	N/A N/A N/A	500RPM 500RPM 500RPM	N/A N/A N/A
U Power Consumption ermal emperatures m Event Log ent Management	0000	FANS FANS FANS FANS FANS	6700 RPM 6600 RPM 6600 RPM 6600 RPM	800RPM 800RPM 800RPM 800RPM	N/A N/A N/A N/A	500RPM 500RPM 500RPM 500RPM	N/A N/A N/A N/A

Temperatures

Temperatures page displays each board and the PCI-E slot temperature status.

ration ork	tures					
ces and			Warning The	-the fill	Fallers The	shald
Status	Proha Name	Reading	Warning Three Minimum	Maximum	Minimum	Maximum
	Board Terro 1	410C	0.00	70.0C	0.00	75.0C
6	Board Temp 2	42.0 C	0.00	70.0C	0.00	75.0C
rmation	Board Temp 3	41.0 C	0.00	70.0C	0.00	75 0C
0	Board Temp 4	39.0 C	0.00	70.0C	0.00	75.0C
nsumption o	Board Temp 5	37.0 C	0.00	70.0C	0.00	75 0C
0	Board Temp 6	42.0 C	0.00	70.0C	0.00	75.0C
Imption .	PCIE 13 Temp	34.0 C	0.00	85.0C	0.00	90.0C
tings :						

System Event Log

It records the event when sensor has an abnormal state. When the log matches the pre-defined alert, the system sends out the notification automatically, if it is pre-configured.

figuration figuration towork icunity ers rivices	-,	dans to fathe to t		Save Log Clear Log
s.	Severity	Date/Time	Description	Endles Per Pages. 10
	1.1	2000-08-26 09-59-24	FANR Fan sensor failure event was asserted	
ormation	1	2000-08-26 09 59 24	FAN8 Fan sensor, warring event was asserted	
	á.	2000-08-26 09:59:24	FAN7 Fan sensor, failure event was asserted	
	1	2000-08-26 09:59:24	FAN7, Fan sensor, warning event was asserted	
onsumption	0	2000-08-26 09 59 24	FAN5. Fan sensor, failure event was asserted	
Consumption	1	2000-08-26 09:59:24	FAN6: Fan sensor, warning event was asserted	
	0	2000-08-26 09:59:24	FAN5: Fan sensor, failure event was asserted	
abures	1	2000-08-26 09:59:24	FANS Fan sensor, warning event was asserted	
nt Loo	2	2000-08-26 09 59 24	FAI4 Fan sensor, failure event was asserted	
agement		2000-08-26 09 59 24	FAH4: Fan sensor, warning event was asserted	
n Events	100	2000-08-26 09:59:24	FAN3 Fan sensor, failure event was asserted	
ettings	1	2000-08-26 09 59 24	FAN3 Fan sensor, warning event was asserted	
		2000-08-26 09 59 24	FAN2 Fan sensor, failure event was asserted	
		2000-08-26 09:59:24	FAN2 Fan sensor, warning event was asserted	
	(3)	2000-08-26 09:59:24	FAN1. Fan sensor, failure event was asserted	
	1	2000-08-26 09:59 24	FAN1: Fan sensor, warning event was asserted	
	G	2000-08-26 09 58 03	PSU 1: Power Unit sensor, AC lost was asserted	
	1	2000-08-26 09:50:51	Sys Pwr Monitor: Power Supply sensor, Predictive Failure was asserted	

Event Management

Platform Events

A PEF can trigger an action and generate an alert when a critical hardwarerelated event occurs. For each PEF, you can choose the action to be taken when a platform event occurs.

You can also choose to generate and send an alert when a platform event occurs. In the Platform Events screen, you can enable the generation of platform event alerts globally by clicking **Global Alerting Enable**.

When you finish the configuration, click Apply Changes.

				Welc	ome root (Administrator
Platform Events Platform Event Filters (PEF) List Global Alering Enable O Note (This e	nables/disables both	PET and email alerts).			Apply Changes
Filter Name	None	Power Cycle	Power Off	Generate PET	
Fan Assert Filter	•	0	0		
Temperature Warning Assert Filter					
Temperature Critical Assert Filter		•	0		
	Platform Events Platform Event Filters (PEP) List Global Aloring Enable Global Aloring Enable Plan Asset Filter Transact Filter Transact Filter Transact Filter Temperature Critical Asset Filter	Platform Events Platform Event Filters (PEP) List Cicluid Alexing Enalti ① Rice (The enables/disables both Tean Assert Filter 1000 Tean Assert Filter 1000 Temperature Critical Assert Filter	Platform Events Platform Event Filters (PEF) List C Clobal Alexing Enals C Clobe (This enables/disables both PET and enal alers) Filter Name Kone PowerCycle Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C Clobal Alexing Filter C C C C Clobal Alexing Filter C C C C Clobal Alexing Filter C C C C C C C C C C C C C C C C C C C	Platform Events Platform Event Filters (PEF) List Clobal Alering Runi Clobal Alering Runi Clobal Alerin	Verice Platform Events Iters (PEP) List Clobal Alloring Exatel Tran Asset Fater Tran Asset Fater Temperature Critical Asset Fater Temperature Critical Asset Fater Temperature Critical Asset Fater

Traps Settings

In the Trap Settings page, you can set the IPv4 and IPv6 Destination List.

IPv6 and IPv4 are two completely separate protocols. IPv6 is not backwards compatible with IPv4, and IPv4 hosts and routers will not be able to deal directly with IPv6 traffic.

IPv6 has a significantly larger address space than IPv4. This results from the use of a 128-bit address, whereas IPv4 uses only 32 bits.

Trap Settings			
IPv4 Destination List			
	Enable	IPv4 Address	Send Test Trap
IPv4 Destination 1		0.0.0	Send Test Trap
IPv4 Destination 2		0000	Send Test Trap
IPv4 Destination 3		0.0.0.0	Send Test Trap
IPv4 Destination 4		0000	Send Test Trap
IPv6 Destination List			
	Enable	IPv6 Address	Send Test Trap
IPv6 Destination 1			Send Test Trap
8Pv6 Destination 2			Send Test Trap
IPv6 Destination 3			Sand Test Trap
IPv6 Destination 4		81 C	Send Test Trap
Community String Community Name	public		

When you finish the configuration, click Apply Changes.

Email Settings

In order to enable email alert messages, you can configure e-mail settings by specifying the e-mail address, subject and message in the Email Settings screen. After you finish the configuration, click **Apply Change** to save the settings.

¢LL					Welcome root (Admi
oerties configuration Network Security Users Services	Email Setting	gs ddresses			Apply Char
IPMI ions		Enable	Destination E-mail Address	Email Description	Test
ate Ses	Email Alert 1			MorgaPoint annual ale	Send Alert 1
er Information	Email Alert 2				Send Alert 2
ontrol ower Consumption	Email Alert 3	0		MergePoint email ale	- Send Alert 2
E ower Consumption	Email Alert 4				Send Alert 4
atform Events ap Settings	SMTP IP Address		0000		
ap					

Port Map

You can identify the specified iPASS mapping to PCIe controller in the Port Map page. Click **Apply Change** to save the settings.

Control By O Jumper O BMC	IDASS DOIE
n Mapping 1 0 115 0 1 1.215.15 0 VS 5 2.16 0 VS N/A	1 12.3.4.13.14.15.16 VS NA
Mapping 2 $\odot \begin{array}{c} 2 \\ VS \\ 6 \\ 4,14 \end{array} \\ \odot \begin{array}{c} 2 \\ VS \\ N/A \end{array} \\ \odot \begin{array}{c} 3,13 \\ VS \\ N/A \end{array}$	2 N/A VS 6 N/A
Mapping 3 O 7 VS 5.11 O 7 VS 5.6 11.12	U 3 VS 5.6.7.6.9.10.11.12
Mapping 4 O 4 VS 7.9 O 4 VS 7.8,10 NA	4 N/A VS 8 N/A

Or you can change remote port mapping by running the port map script.

Download the script from support.dell.com.

Script usage

sh ./port_map.sh bmc_ip bmc_un bmc_pw

Example

sh ./port_map.sh 10.1.7.211 root root

You can reset each individual sled. See "Power control each slot command" section



NOTE: 8:1 feature is an optional feature and only supports on 8:1 ready system.

Port Map | 28

LED

Table 4-1 lists the LED behavior

Table 4-1. LED Behavior Definition

	Color	Condition	When system issue error
	Amber	Blinking fast	PSU failure
Status LED		On	FAN failure or sensor error
		Blinking	PCIe card failure
Power	Green	Blinking	Power on failure or PCIe card missing
LED		On	Power on
FAN	Green	On	FAN normal
LED Amber		On	FAN failure
ID LED	Blue	Blinking	Identifying chassis
PCIe power LED	Green	On	Power on

Blinking fast : 2Hz Blinking : 0.5Hz

LED | 29

4







LED | 30

1	Power LED	15	PCIe power LED
2	System LED	16	PCIe power LED
3	UID LED	17	PCIe power LED
4	PCIe power LED	18	PCIe power LED
5	PCIe power LED	19	PCIe power LED
6	PCIe power LED	20	FAN LED 1
7	PCIe power LED	21	FAN LED 2
8	PCIe power LED	22	FAN LED 3
9	PCIe power LED	23	FAN LED 4
10	PCIe power LED	24	FAN LED 5
11	PCIe power LED	25	FAN LED 6
12	PCIe power LED	26	FAN LED 7
13	PCIe power LED	27	FAN LED 8
14	PCIe power LED		

User

Table 5-1 lists the User account information.

Table 5-1. User Account Information

	Default User Table					
ID	Name	Password	Privilege	Status		
1	Null	Null	Administrator	Disable		
2	"root"	"root"	Administrator	Enabled		
3	Null	Null	No Access	Disable		
4	Null	Null	No Access	Disable		
5	Null	Null	No Access	Disable		
6	Null	Null	No Access	Disable		
7	Null	Null	No Access	Disable		
8	Null	Null	No Access	Disable		
9	Null	Null	No Access	Disable		
10	Null	Null	No Access	Disable		
11	Null	Null	No Access	Disable		
12	Null	Null	No Access	Disable		
13	Null	Null	No Access	Disable		
14	Null	Null	No Access	Disable		
15	Null	Null	No Access	Disable		
16	Null	Null	No Access	Disable		

5

User | 32

6

Firmware Update

Firmware Update by WebUI

- WebUI Update
 - Remote update can be achieved through the remote Web console.



User

- Remote Update
 - Remote update can be achieved through HTTP/FTP/TFTP.
 - **1.** Put the firmware to HTTP/FTP/TFTP server.
 - **2.** Run the script and wait for the BMC to download the firmware from Http/Ftp/ Tftp server.
 - **3.** Complete the Update.



Download the script from support.dell.com.

Script usage

sh ./fw_upgrade.sh bmc_ip bmc_sn bmc_pw fw_path

Example (TFTP)

sh ./fw_upgrade.sh 10.1.7.211 root root tftp://10.1.7.136/fw.dcs

7

IPMI 1.5 / 2.0 Command Support List

This chapter lists all IPMI 2.0 mandatory, optional and OEM command support. For more detailed information please refer to the core IPMI commands support document.

IPMI Device Global Commands

Command	NetFn	CMD	O/M	Supported
Get Device ID	Арр	01h	М	⊠Yes □No
Cold Reset	Арр	02h	0	⊠Yes □No
Warm Reset	Арр	03h	0	□Yes ☑No
Get Self Test Results	Арр	04h	М	⊠Yes □No
Manufacture Test On	Арр	05h	0	⊠Yes □No
Set ACPI Power State	Арр	06h	0	⊠Yes □No
Get ACPI Power State	Арр	07h	0	⊠Yes □No
Get Device GUID	Арр	08h	0	⊠Yes □No
Broadcast Commands				
Broadcast 'Get Device ID'	Арр	01h	М	⊠Yes □No
BMC can process the				

Table 7-1. IPMI Device Globals

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broadcast message, but		
cannot send broadcast to		
IPMB.		

BMC Device and Messaging Commands

Table 7-2. BMC Device and Messaging Commands

Command	NetFn	CMD	O/M	Supported
Set BMC Global Enables "Only Supported: SEL Logging Enable / Disable, Event message buffer Enable/disable"	Арр	2Eh	М	□Yes ØNo
Get BMC Global Enables	Арр	2Fh	М	⊠Yes □No
Clear Message Buffer Flags	App	30h	М	□Yes ☑No
Get Message Buffer Flags	App	31h	М	□Yes ☑No
Enable Message Channel Receive	Арр	32h	0	□Yes ☑No
Get Message	Арр	33h	М	□Yes ☑No
Send Message	App	34h	М	⊠Yes □No
Not support Send Raw				
Read Event Message Buffer	App	35h	0	□Yes ☑No
Get BT Interface Capabilities	App	36h	М	□Yes ☑No
Get System GUID	Арр	37h	М	⊠Yes □No
Get Channel Authentication Capabilities	Арр	38h	М	⊠Yes □No
Get Session Challenge	App	39h	М	⊠Yes □No
Activate Session Command	App	3Ah	М	⊠Yes □No
Set Session Privilege Level Command	Арр	3Bh	М	⊠Yes □No
Close Session	Арр	3Ch	М	⊠Yes □No
Get Session Information	Арр	3Dh	М	⊠Yes □No
Get Authentication Code	App	3Fh	0	⊠Yes □No

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Command					
Set Channel Access Commands	App	40h	М	⊠Yes	□No
"Only support: always availible					
Get Channel Access Commands	App	41h	М	⊠Yes	□No
Get Channel Info Command	App	42h	М	⊡Yes	□No
Set User Access Commands	Арр	43h	М	⊡Yes	□No
Not support user session limit (optional)					
Get User Access Commands	Арр	44h	М	⊠Yes	□No
Set User Name Commands	App	45h	М	⊠Yes	□No
Get User Name Commands	App	46h	М	⊠Yes	□No
Set User Password Commands	App	47h	М	⊡Yes	□No
Active Payload Command	App	48h	М	⊡Yes	□No
Deactivate Payload Command	App	49h	М	⊡Yes	□No
Get Payload Activation Status	App	4Ah	М	⊡Yes	□No
Get Payload Instance Info Command	Арр	4Bh	М	⊠Yes	□No
Set User Payload Access	App	4Ch	М	⊡Yes	□No
Get User Payload Access	App	4Eh	М	⊡Yes	□No
Get Channel Payload Support	App	4Fh	М	⊡Yes	□No
Get Channel Payload Version	App	50h	М	⊡Yes	□No
Master Write-Read I2C	Арр	52h	М	⊠Yes	□No
Get Channel Cipher Suites	Арр	54h	0	⊠Yes	□No
Suspend/Resume Payload Encryption	Арр	55h	0	⊠Yes	□No
Set Channel Security Keys	App	56h	0	⊡Yes	□No
Get System Interface Capabilities	Арр	57h	0	□Yes	⊠No

BMC Watchdog Timer Commands

Command	NetFn	CMD	O/M	Supported
Reset Watchdog Timer	App	22h	М	⊠Yes □No
Set Watchdog Timer	App	24h	М	⊠Yes □No
Not support pre-timeout interrupt: "Messaging interrupt"				
Get Watchdog Timer	App	25h	М	⊠Yes □No

Table 7-3. BMC Watchdog Timer Commands

Chassis Commands

Table 7-4. Chassis Commands

Command	NetFn	CMD	O/M	Supported
Get Chassis Capabilities	Chassis	00h	М	⊠Yes □No
Get Chassis Status	Chassis	01h	М	⊡Yes □No
Chassis Control	Chassis	02h	М	⊡Yes □No
Only support power on and power off				
Chassis Reset	Chassis	03h	0	□Yes ☑No
This command is combined to Chassis Control command in IPMI v1.5				
Chassis Identify	Chassis	04h	0	⊠Yes □No
Set Chassis Capabilities	Chassis	05h	0	⊡Yes □No
Set Power Restore Policy	Chassis	06h	0	⊡Yes □No
Get System Reset Cause	Chassis	07h	М	□Yes ØNo
Set System Boot Options	Chassis	08h	М	□Yes ØNo
Get System Boot Options	Chassis	09h	М	□Yes ØNo
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IPMI 1.5 / 2.0 Command Support List

Set Front Panel Button Enable	Chassis	0Ah	М	□Yes ØNo
Set Power Cycle Interval	Chassis	0Bh	М	□Yes ☑No
Get POH Counter	Chassis	0Fh	0	□Yes ☑No

Event Commands

Table 7-5. BMC Device and Messaging Commands

			O/M		
Command	NetFn	CMD	Event Receiver	Event Generator	Supported
Set Event Receiver	S/E	00h	М	М	⊠Yes □No
Get Event Receiver	S/E	01h	М	М	⊠Yes □No
Platform Event	S/E	02h	М	М	⊠Yes □No

SEL Commands

Table 7-6. SEL Commands

Command	NetFn	CMD	O/M	Supported
Get SEL Info	Storage	40h	М	⊠Yes □No
Get SEL Allocation Info	Storage	41h	0	□Yes ☑No
Reserve SEL	Storage	42h	0	⊠Yes □No
Get SEL Entry	Storage	43h	М	⊠Yes □No
Add SEL Entry	Storage	44h	М	⊠Yes □No
Partial Add SEL Entry	Storage	45h	М	□Yes ☑No
Delete SEL Entry (* will be implemented after	Storage	46h	0	□Yes ØNo

IPMI 1.5 / 2.0 Command Support List 39

RFD)				
Clear SEL	Storage	47h	М	⊠Yes □No
Get SEL Time	Storage	48h	М	⊠Yes □No
Set SEL Time	Storage	49h	М	⊠Yes □No
Get Auxiliary Log Status	Storage	5Ah	0	□Yes ☑No
Set Auxiliary Log Status	Storage	5Bh	0	□Yes ☑No

SDR Repository Commands

Command	NetFn	CMD	O/M	Supported
	-			
Get SEL Info	Storage	40h	М	⊠Yes □No
Get SEL Allocation Info	Storage	41h	0	□Yes ØNo
Reserve SEL	Storage	42h	0	⊠Yes □No
Get SEL Entry	Storage	43h	М	⊠Yes □No
Add SEL Entry	Storage	44h	М	⊠Yes □No
Partial Add SEL Entry	Storage	45h	М	□Yes ØNo
Delete SEL Entry (* will be implemented after RFD)	Storage	46h	0	□Yes ⊠No
Clear SEL	Storage	47h	М	⊠Yes □No
Get SEL Time	Storage	48h	М	⊠Yes □No
Set SEL Time	Storage	49h	М	⊠Yes □No
Get Auxiliary Log Status	Storage	5Ah	0	□Yes ØNo
Set Auxiliary Log Status	Storage	5Bh	0	□Yes ØNo

Table 7-7. SDR Repository Commands

SDR Repository Commands

Table 7-8. SDR Repository Commands

Command	NetFn	CMD	O/M	Supported?
Get SDR Repository Info	Storage	20h	М	⊠Yes □No
Get SDR Repository Allocation Info	Storage	21h	0	□Yes ☑No
Reserve SDR Repository	Storage	22h	М	⊠Yes □No
Get SDR	Storage	23h	М	⊠Yes □No
Add SDR	Storage	24h	М	□Yes ØNo
Partial ADD SDR	Storage	25h	0	⊠Yes □No
Delete SDR	Storage	26h	0	□Yes ☑No
Clear SDR Repository	Storage	27h	М	⊠Yes □No
Get SDR Repository Time	Storage	28h	0	⊠Yes □No
Set SDR Repository Time	Storage	29h	0	⊠Yes □No
Enter SDR Repository Update Mode	Storage	2Ah	0	□Yes ☑No
Exit SDR Repository Update Mode	Storage	2Bh	0	□Yes ☑No
Run Initialization Agent	Storage	2Ch	0	⊠Yes □No

FRU Inventory Device Commands

Command	NetFn	CMD	O/M	Supported
Get FRU Inventory Area Info	Storage	10h	М	⊠Yes □No
Read FRU Inventory Data	Storage	11h	М	⊠Yes □No
Write FRU Inventory Data	Storage	12h	М	⊠Yes □No

Table 7-9. FRU Inventory Device Commands

Sensor Device Commands

Command	NetFn	CMD	O/M	Supported
Get Device SDR Info	S/E	20h	0	□Yes ☑No
Get Device SDR	S/E	21h	0	□Yes ☑No
Reserve Device SDR Repository	S/E	22h	0	□Yes ☑No
Get Sensor Reading Factors	S/E	23h	0	⊠Yes □No
Set Sensor Hysteresis	S/E	24h	0	⊠Yes □No
Get Sensor Hysteresis	S/E	25h	0	⊠Yes □No
Set Sensor Threshold	S/E	26h	0	⊠Yes □No
Get Sensor Threshold	S/E	27h	0	⊠Yes □No
Set Sensor Event Enable	S/E	28h	0	⊠Yes □No
Get Sensor Event Enable	S/E	29h	0	⊠Yes □No
Re-arm Sensor Events	S/E	2Ah	0	⊠Yes □No
Get Sensor Event Status	S/E	2Bh	0	⊠Yes □No
Get Sensor Reading	S/E	2Dh	М	⊠Yes □No
Set Sensor Type	S/E	2Eh	0	□Yes ☑No

Table 7-10. Sensor Device Commands

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Get Sensor Type	S/E	2Fh	0	□Yes	⊠No

LAN Commands

Table 7-11. LAN Commands

Command	NetFn	CMD	O/M	Supported
Set LAN Configuration Parameters	Transport	01h	М	⊠Yes □No
(Note: Parameter 9 and 25 are not supported.)				
Get LAN Configuration Parameters	Transport	02h	М	⊠Yes □No
(Note: Parameter 9 and 25 are not supported.)				
Suspend BMC ARP	Transport	03h	0	□Yes ☑No
Get IP/UDP/RMCP Statistics	Transport	04h	0	□Yes ☑No

PEF/PET Alerting Commands

Table 7-12. PEF/PET Alerting Commands

Command	NetFn	CMD	O/M	Supported
Get PEF Capabilities	S/E	10h	М	⊠Yes □No
Arm PEF Postpone Timer	S/E	11h	М	⊠Yes □No
Set PEF Configuration Parameters	S/E	12h	М	⊠Yes □No
Does not support parameter 14, 15.				
Get PEF Configuration Parameters	S/E	13h	М	⊠Yes □No

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Does not support parameter 14, 15.					
Set Last Processed Event ID	S/E	14h	М	⊠Yes	□No
Get Last Processed Event ID	S/E	15h	М	ØYes	□No
Alert Immediate	S/E	16h	М	⊡Yes	□No
PET Acknowledge	S/E	17h	М	⊠Yes	□No

OEM Command List

Port Map Configure Command

Table 7-13-1. Port Map Configure Command

Port Map Configure Command	NetFn	CMD
Fail Over OEM command	34h	C8h

Detail Information

Table 7-13-2. Port Map Configure Command Detail Information

Failover OEM command	Byte	Data Field
Request Data	1	Bit7 : Get/Set configure 0 : Get configure 1 : Set configure Bit6 ~ bit4: Control by 01 : Jumper 02 : BMC Bit3 : Enable/Disable Fail Over 1 0 : Enable(1 to 4) 1 : Disable(1 to 2)

IPMI 1.5 / 2.0 Command Support List

		Bit2 · Disable/Enable Fail Over 2
		0: Enable(1 to 4)
		1 : Disable(1 to 2)
		Bit1 · Disable/Enable Eail Over 3
		0: Enable(1 to 4)
		1 : Disable(1 to 2)
		Bit 0 · Disable/Enable Eail Over 4
		0 : Enable(1 to 4)
		1 : Disable(1 to 2)
	2	Optional
	2	Dit7 bit4: slot $1,2,2,4,12,14,15,16$
		$D117 \sim 014.$ slot 1,2,5,4,15,14,15,10
		$01 \cdot 1.2 \approx 1.4 \text{ mode}$
		Bit3 = bit0: slot 5.6.7.8.0.10.11.12
		$01 \cdot 1 \cdot 2 \ \text{m} 1 \cdot 4 \ \text{mode}$
		$01 \cdot 1.2 \approx 1.4 \text{ mode}$
	1	
Response Data	1	Completion code
	2	Bit7 ~ bit4: Control by
		01 : Jumper
		02 : BMC
		Dit2 · Enchla/Dischla Egil Over 1
		BIG . Ellable/Disable Fall Over 1
		0 : Enable(1 to 4)
		0 : Enable(1 to 4) 1 : Disable(1 to 2)
		0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2
		0 : Enable/Disable Fail Over 1 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4)
		0 : Enable/Disable Fail Over 1 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4) 1 : Disable(1 to 2)
		 Bit3 : Enable/Disable Fail Over 1 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit1 : Disable/Enable Fail Over 3
		 Bit3 : Enable/Disable Fail Over 1 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit1 : Disable/Enable Fail Over 3 0 : Enable(1 to 4)
		 Bit3 : Enable/Disable Fail Over 1 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit1 : Disable/Enable Fail Over 3 0 : Enable(1 to 4) 1 : Disable(1 to 2)
		 Bit3 : Enable/Disable Fail Over 1 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit2 : Disable/Enable Fail Over 2 0 : Enable(1 to 4) 1 : Disable/Enable Fail Over 3 0 : Enable(1 to 4) 1 : Disable(1 to 2) Bit0 : Disable/Enable Fail Over 4

IPMI 1.5 / 2.0 Command Support List | 45

	1 : Disable(1 to 2)
3	Optional
	Bit7 ~ bit4: slot 1,2,3,4,13,14,15,16
	00 : Not support 1:8 mode
	01 : 1:2 & 1:4 mode
	02 : 1:8 mode
	Bit3 ~ bit0: slot 5,6,7,8,9,10,11,12
	00 : Not support 1:8 mode
	01 : 1:2 & 1:4 mode
	02 : 1:8 mode

Power Control Each Slot Command

Table 7-13-3. Power Control Each Slot Command

Port Map Configure Command	NetFn	CMD
Slot power control OEM command	30h	F0h

Detail Information

Table 7-13-4. Power Control Each Slot Command Detail Information

Slot power control OEM command	Byte	Data Field
Request Data	1	Bit7 : Slot 8
		Bit6 : Slot 7
		Bit5 : Slot 6
		Bit4 : Slot 5
		Bit3 : Slot 4
		Bit2 : Slot 3
		Bit1 : Slot 2
		Bit0 : Slot 1

	2	Bit7 : Slot 16 Bit6 : Slot 15 Bit5 : Slot 14 Bit4 : Slot 13 Bit3 : Slot 12 Bit2 : Slot 11 Bit1 : Slot 10 Bit0 : Slot 9
Response Data	1	Completion code

System Event

When the system events log is full, you must manually clear the log.

Table 8-1. System Event

Sensor name	Event	Flag
FB Temp	UC(50) UNC(45)	Assert De-assert
Roard Temp 1	UC(75) UNC(70)	Assert De assert
	0C(73), 0NC(70)	Assert, De-assert
Board Temp 2	UC(75), UNC(70)	Assert, De-assert
Board Temp 3	UC(75), UNC(70)	Assert, De-assert
Board Temp 4	UC(75), UNC(70)	Assert, De-assert
Board Temp 5	UC(75), UNC(70)	Assert, De-assert
Board Temp 6	UC(75), UNC(70)	Assert, De-assert
PCIE 1 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 2 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 3 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 4 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 5 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 6 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 7 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 8 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 9 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 10 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 11 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 12 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 13 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 14 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 15 Temp	UC(90), UNC(85)	Assert, De-assert

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PCIE 16 Temp	UC(90), UNC(85)	Assert, De-assert
PCIE 1 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 2 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 3 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 4 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 5 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 6 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 7 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 8 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 9 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 10 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 11 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 12 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 13 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 14 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 15 Watt	UC(252), UNC(240)	Assert, De-assert
PCIE 16 Watt	UC(252), UNC(240)	Assert, De-assert
PSU 1 Watt	UC(1328), UNC(1264)	Assert, De-assert
PSU 2 Watt	UC(1328), UNC(1264)	Assert, De-assert
PSU 3 Watt	UC(1328), UNC(1264)	Assert, De-assert
PSU 4 Watt	UC(1328), UNC(1264)	Assert, De-assert
FAN1	LC(500), LNC(800)	Assert, De-assert
FAN2	LC(500), LNC(800)	Assert, De-assert
FAN3	LC(500), LNC(800)	Assert, De-assert
FAN4	LC(500), LNC(800)	Assert, De-assert
FAN5	LC(500), LNC(800)	Assert, De-assert
FAN6	LC(500), LNC(800)	Assert, De-assert
FAN7	LC(500), LNC(800)	Assert, De-assert
FAN8	LC(500), LNC(800)	Assert, De-assert
PCIE 1	Plug, Unplug	N/A

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PCIE 2	Plug, Unplug	N/A
PCIE 3	Plug, Unplug	N/A
PCIE 4	Plug, Unplug	N/A
PCIE 5	Plug, Unplug	N/A
PCIE 6	Plug, Unplug	N/A
PCIE 7	Plug, Unplug	N/A
PCIE 8	Plug, Unplug	N/A
PCIE 9	Plug, Unplug	N/A
PCIE 10	Plug, Unplug	N/A
PCIE 11	Plug, Unplug	N/A
PCIE 12	Plug, Unplug	N/A
PCIE 13	Plug, Unplug	N/A
PCIE 14	Plug, Unplug	N/A
PCIE 15	Plug, Unplug	N/A
PCIE 16	Plug, Unplug	N/A
PSU 1	Plug, Unplug	N/A
	AC fail, DC fail	Assert, De-assert
PSU 2	Plug, Unplug	N/A
	AC fail, DC fail	Assert, De-assert
PSU 3	Plug, Unplug	N/A
	AC fail, DC fail	Assert, De-assert
PSU 4	Plug, Unplug	N/A
	AC fail, DC fail	Assert, De-assert
Sys Pwr Monitor	System on fail	Assert

9

IP Control By Button Static/DHCP IP Controlled by Front Panel Button

To switch from DHCP to static or vice versa:

- 1. Hold down the ID button for 5 seconds.
- 2. While pressing the ID button, press and hold the power button for 5 seconds.
- **3**. Release the power button, and then the ID button.
- 4. It will take \sim 30 seconds to change the configuration.
- 5. The ID light indicates which mode has been selected:
 - Solid for 5 seconds indicates static IP
 - Flashing for 5 seconds indicates DHCP

Every time you change the IP mode to static, BMC IP will restore to the default settings. Default static IP address is "192.168.0.120".

The power button does not work during the power on/off period.

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Getting Help

Contacting Dell

For customers in the United States, call 800-WWW-DELL (800-999-3355).

NOTE: If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

- 1 Visit support.dell.com.
- 2 Click your country/region at the bottom of the page. For a full listing of country/region click All.
- 3 Click All Support from Support menu.
- 4 Select the appropriate service or support link based on your need.
- 5 Choose the method of contacting Dell that is convenient for you.

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