Dell PowerEdge C5220

Using the Baseboard Management Controller



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Typographic Conventions

Several different typographic conventions are used throughout this manual. Refer to the following examples for common usage.

Bold type face denotes menu items, buttons and application names.



NOTE: A note indicates important information that will help a user make better use of a computer system.

CAUTION: A caution indicates a potential for property damage, personal injury, or death

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Introduction

This section introduces the Baseboard Management Controller (BMC) and includes the requirements for web-based graphical user interface (GUI), keyboard, video, and mouse (KVM), and virtual media.

Supported Platform

PowerEdge C5220

BMC Key Features and Functions

The following lists the supported features of the BMC:

- Support for IPMI v1.5 and v2.0
- Out-of-band monitoring and control for server management over LAN
- Dedicated NIC for remote management via network
- 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 by lighting chassis LED indicator and Platform Event Trap (PET)
- Platform Event Filtering (PEF) to take selected action for selected events including NMI
- Chassis management, which includes power control, status report, front panel buttons, and LEDs control
- Watchdog and auto server re-start and recovery
- Support for multi-session user and alert destination for LAN channel

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 Explorer) without needing to install KVM and virtual storage software on a remote console.

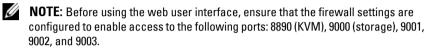
Web-based GUI is supported on the following browsers:

Microsoft Windows:

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

Linux:

• Mozilla Firefox 2.0 or later



Logging in to the Web User Interface

Enter the IP address or URL (default DHCP\static IP address) into the address bar of the web browser.

When connecting to the BMC, the login screen prompts for the username and password. This authentication with Secure Sockets Layer (SSL) protection prevents unauthorized intruders from gaining access to the BMC web server. Once authentication is passed, you can manage the server by privilege.



Table 1-1.	Default User Name And Password

Field	Default
User Name	root

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Table 1-1. Default User Name And Password

Field	Default
Password	root

NOTE: The default username and password are in lowercase characters. It is advised to change the root password once you have logged in.

Click the Help button on the top right corner for assistance. Click Logout to exit.



Menu Item	Description
System Information	Displays the system information.
Server Health	Displays the monitoring status of the server.
Configuration	Allows the user to configure the IPMI settings.
Remote Control	Allows the user to launch KVM console and perform power control.
Maintenance	Allows the user to do firmware update.
Language	Allows the user to select a language setting. (Currently, only support English.)

System Features

System Information

The System Information page enables you to view the BMC firmware version, BIOS version, and Chassis version. Click **System Information** to view the Remote Management Controller.



Table 1-2. B	MC Summary
--------------	------------

BMC Information	Description					
Device Power Status	Current power state of the system.					
Firmware Revision	Dell Remote Management Controller firmware version.					
Aux Firmware Revision	Firmware build number.					
BIOS Version	BIOS version for the system.					
Firmware Build Time	Date the firmware was last flashed in the form: M DD YYYY HH:MM:SS					
BMC Date & Time	Current date and time in the form: W, DD M YYYY HH:MM:SS					
BMC Chipset	Dell Remote Management Controller type.					
Chassis Type	Displays the chassis type.					
Chassis Version	Displays the chassis version number.					
MB Position	Displays the current position of the mainboard within the chassis.					

8

Component Information

estem Information ierver Health configuration lamote Control laintenance anguages	This page column h	eader. omponenttype category:	emation. You can choose a	calegory from the pull-down box		nd also soft them by clicking on a Number of CPU Socket: 1 sockets	Component - Help
	ID	Stature	Socket	Manufacturer	Model -	Triguncy	Comporent List
							A list of the CPU information with them Di status social manufacturer, model and frequency. Memory information A list of the litency information with ther 0, satus, social; module size, model and thequency.
							Actions
		Hafreah					Cick to refresh the component information.

The Number of CPU Socket field and the Number of Memory Slot field display the total number of motherboard supported.

CPU Information

Including CPU ID, Status, Socket, Manufacturer, Model, and Frequency.

Memory Information

Including Memory ID, Status, Socket, Module Size, Model, and Frequency.

Server Identify

The Server Identify page displays the indicator LED status. You can select a Server Identify Operation to control the indicator LED functions.

rHealth	Server Identify	Server Identify - Help
te Control	View server identify current status and perform a server identify operation.	You can view your server iden current status. To perform a se identify operation, select the op you wish to perform and cick if
ages	Identify Status is currently off	Action.
	Server Identify Operation	Server Identify Operation
	⊙ ON	Select a server identify operation
	O OFF	 ON : turns on the LED
		located on the physical continuously.
	O Blink	 OFF : turns off the LE
	Server identify Timeout 15 Second(s)	located on the physical server.
	Perform Action	 Dlink : Enable blinking LED located on the phy server.
		Server Identify Timeout
		Disains the number of ecconds LED bleks. Enter the amount of seconds that you want the LE blek.
		 Timeout range is 1 to seconds, but 255 pres L(E) binking continuous

ltem	Description
Current Server Identify	Displays the current server identify status is on or off.
Server Identify	Select the server identify LED operation:
Operation	• ON
	• OFF
	• Blink
Server Identify Timeout	You can set the timeout value when you select the Blink operation. The range is between 1 to 255 seconds, but note 255s is blinking continuously.
Perform Action	Click to execute the selected Server Identify Operation.

Table 1-3. Server Identify

Firmware Update

Use the Firmware Update feature to upgrade to the latest firmware version. The following data is included in the BMC firmware package:

- Compiled BMC firmware code and data
- Web-based user interface, JPEG, and other user interface data files ٠
- Default configuration files

Updating the BMC Firmware

NOTE: Before beginning the firmware update, download the latest firmware version and save it on your local system. During the process of firmware update, the AC power of the managed system cannot be unplugged and the Web GUI cannot be closed.



NOTE: Once you enter into Update Mode and choose to cancel the firmware flash operation, the BMC must be reset. This means that you must close the Internet browser and log back onto the BMC card before you can perform any other types of operations.

Select the Enter Update Mode button from the Maintenance tab to put the device in a special mode that allows firmware update. You can now follow the instructions presented below to successfully update the card's firmware. The device resets if update is cancelled. The device also resets upon successful completion of firmware update.

Browse to, or enter the path on your system where the firmware image file 1 resides.

Example:

C:\Updates\V1.0\<image name>

The default firmware image name is s81kXXX.bin (whereas XXX is the version number).

- 2 Select Auto Reset BMC if you want the BMC to auto reset after the update.
- **3** BMC will not check if the Firmware image belongs to C5220 platform when selecting Force Update.
- 4 Click the Upload Firmware button.
- BMC will save configure settings when **Preserve Configuration** is selected. 5

T

6 Click Start Upgrade.

The update might take several minutes. When the update is completed, a dialog box appears.

- 7 Click OK to close the session and automatically log out.
- 8 After the BMC resets, click Log In to log in to the BMC again.

Front Panel User Interface

The BMC provides control panel interface functionality including indicators (fault, status, and ID LEDs) and buttons (power/ID).

Power Button

The power button turns the device on and off.

The power button has a deferred mechanism. When the DC is off the power button ignores one (1) second or less activation to protect against accidental DC power on.

LEDs

BMC Heartbeat LED

The green LED provides an easy way to indicate that BMC is now enabled.

ID LED

A blinking LED indicates the Chassis Identify command has been accepted.

System Status LED

There is a dual-color LED to show the system status. The BMC turns the LED off after all event logs are cleared.

The behavior of Status LED and ID LED is listed in Table 1-2.

Table 1-4. LED Status

LED	Color	Status	Occurrence	Note
Status LED	Amber	Blinking	See "Blinking Fault LED Conditions" on page 14.	
		Off	Normal status	
	Green	Solid On	Power On (S1/S0)	The power LED status is
		Off	Power Off (S4/S5)	controlled by BIOS.

LED	Color	Status	Occurrence	Note
ID LED	Blue	Off	Normal status (by IPMI Chassis Identify command or System ID Button)	Turn off the ID LED. 1. ipmitool raw 0x00 0x04 0x00 2. ipmitool raw 0x00 0x04 0x00 0x00
		Solid On	Identify the system	Turn on the ID LED. 1.ipmitool raw 0x00 0x04 0x3c 01
		Blinking	Identify the system with interval	1. IPMI chassis identify command without request data ipmitool raw 0x00 0x04
				2. IPMI chassis identify command with only 1 parameter data ipmitool raw 0x00 0x04 0x3c (blink 60 sec)
				3. IPMI chassis identify command with 2 parameter data ipmitool raw 0x00 0x04 0x3c 0x00 (blink 60 sec)
Heartbeat	Green	Off	BMC is not ready	
LED		Blinking	BMC is ready	

Table 1-4. LED Status

Blinking BMC is ready

 Table 1-5.
 Blinking Fault LED Conditions

Index	Sensor Name	Event Triggers
1	CPU Temp	Upper Critical Going High
	Ambient Temp,	 Upper Non-Critical Going High
	DIMM Temp	
	Rear Temp 1	
	Rear Temp 2	
	Rear Temp 3	
2	SLED 12V	• Upper Critical Going High
		Upper Non-Critical Going High

Index	Sensor Name	Event Triggers
3	BMC Watchdog	• Timer expired
		• Hard reset
		• Power down
		Power cycle
4	Processor	• IERR
		• Thermal trip
5	BMC SEL	• SEL full (909 records)
		• SEL almost full (909 x 75% = 681 records)
6	Processor Hot	State Asserted
7	System Event	PEF action
8	PCIE Error	Bus correctable error
		Bus Uncorrectable error
		Bus fatal
9	POST Error	System firmware error
10	CPU1_DIMM A1	Correctable error
	CPU1_DIMM A2	Uncorrectable error
	CPU1_DIMM A3	• Correctable ECC error logging limit reached
	CPU1_DIMM A4	
11	SYS FAN 1 ~	• Lower critical going low
	SYS FAN 8	• Lower non-critical going low
12	PSU 1 Status	Presence detected
	PSU 2 Status	• TEMPERATURE Failure detected
		IOUT Failure detected
		VOUT Failure detected
		FANS Failure detected
		INPUT Failure detected
13	PSU Redundancy	Redundancy lost
14	Mixed MB	Mixed MB detected
		Key Slot error detected

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System Information

System Information

The System Information page shows general information about the system including Device Power Status, Firmware Revision, AuxFirmware Revision, Firmware Build Time, BMC Chipset, BIOS Version, and Chassis Version.

List FRU

The List FRU page shows a list of the detected Field Replaceable Units (FRUs) in the system. Select a FRU item from the drop down list to show more information.



Component Information

The Component Information page shows a table of the components. The components can be filtered by category and can be sorted by the column header. The table shows the Socket, Manufacturer, and Model of each component. The Number of CPU Socket field and the Number of Memory Slot field display the total number of motherboard supported.

System Information Server Health Configuration Resource Control Maintenance Languages	Compo This paol	Component - Help					
	Select a : CPU Ink	Component Type Category Select the type of conconents to display in the list.					
	10	Status -	Socket	Handocharer -	flodel	lumber of CPU Socket: 1 sockets Frequency -	Comporent List
	1	Enable	CPU	AND	Phenom 8	2500#42	CPU information A fail of the OUV information with the D, status accise, manufacturer, model and frequency. Memory information A late of the likenary information with their D, status, acciet, module scie, model and trequency.
		Hettrah					Refresh Cick to refresh the corpored information

Server Health

The Server Health page provides information about the server's health such as sensor readings and the event log. The sensor readings can be shown with or without thresholds in the table.



Table 1-6.	Server	Health	Options
------------	--------	--------	---------

Button	Description
Sensor Readings	This button allows you to view the readings from the various sensors.
Sensor Readings with Thresholds	This button allows you to view the readings from the various sensors, with thresholds included in the table.
Event Log	This button allows you to view the event logs written to the event log table.

Sensor Readings

The Sensor Readings page shows all sensor readings from the system.

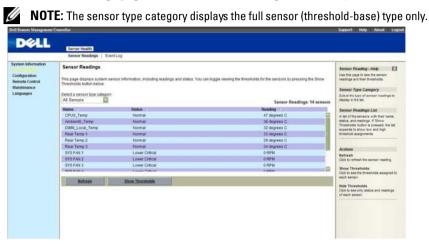


Table 1-7. Sensor Readings

Button	Description
Name	Name of the sensor.
Status	Shows the current status of the sensor.
Reading	The current value of the sensor.
Refresh	Click to refresh the current table.
Show Thresholds	Click to see the threshold value of the sensor.

Sensor Readings With Thresholds

The Sensor Readings with Thresholds page shows all sensor readings and thresholds from the system.

	Sensor Readings	EventLog							
System Information Configuration Remote Control Blaintenance Languages	Sensor Readings This page display spler sensor intromation, including readings and status. You can topple viewing the thresholds for the sensors by pressing the Show Thresholds fuelow Sensor Readings; Sensor Readings; 14 sensors Sensor Readings; 14 sensors								Sensor Reading - Help E Due this pape to see the sensor readings and their thresholds. Sensor Type Category Select the type of sensor readings to display in the str.
	Martie -	Status -	Reading	Low HR	Low CT	Low NC	High IIC	High	
	CPU0_Temp	Normal	47 degrees C	NUS.	14A	225	76 degraes C	81	Sensor Readings List
	Ambient0_Temp	Normal	38 degrees C	104	NA	124	50 degrees C	55	A list of the semants with their nam status, and readings. If Show Thresholds' buffon is pressed, the I expands to show low and tigh threshold assignments.
	DMM Local Temp	Normal	32 degrees C	100	Fall	100	80 degrees C	90	
	Rear Temp 1	Normal I	33 degrees C	764	144	1EA	55 degraes C	61	
	Rear Temp 2	Normal	29 degrees C	No.	Nin	240	55 degraes C	61	eresces and press
	Rear Temp 3	Normal	34 degrees C	184	145	18A	56 degrees C	61	
	SYS FAN 1	Lower Critical	0 RPM	104	0 RPM	1140 RPM	NIA	1414	Actions
	SYS FAN 2	Lower Critical	0 RPM	NEA.	D RPM	1540 RPM	NIA	5454	Refresh
	SYS FAN 3	Lower Critical	0 RPM	No.	0 RPM	1140 RPM	NA	7414	Cick to refresh the sensor reading.
	51377413	Lower Criscal	0 Deni	Para.	0 0011	1140 P0PM	Tain .	10.00	Show Thresholds
		10000		000	100000		2.2		Cick to see the thresholds assigned to each sensor
	Batcash	Rafrash iska Docabolda							
									Hide Thresholds Click to see only status and readings of each sensor.

ltem	Description
Sensor Selection Drop Down Menu	This drop-down menu allows you to select the type of sensor readings that you want to show in the list.
	• All Sensors
	• Temperature Sensors
	• Current Sensors
	• Fan Sensors
Sensor Readings List	This field shows the individual sensor's name, reading and the current status of the sensor. It also shows the following threshold settings for every sensor.
	• Low NR: lower non-recoverable
	• Low CT: lower critical
	• Low NC: lower non-critical
	• High NC: upper non-critical
	• High CT: upper critical
	High NR: upper non-recoverable
Refresh Button	Click to refresh the current table.

ltem	Description
Hide Thresholds Button	Clicking Hide Thresholds button reduces the sensor reading table and hides the various threshold settings for every sensor.

 Table 1-8.
 Sensor Readings With Thresholds

Temperature Monitoring

The system supports the following temperature sensors.

 Table 1-9.
 Temperature Sensors (8-Sled Chassis)

Temperature	Sensor Number	UNCT	UCT
CPU Temp	0x44	77	82
Ambient Temp	0x40	44	47
DIMM Temp	0x4C	68	72
Rear Temp 1	0x54	46	47
Rear Temp 2	0x55	46	47
Rear Temp 3	0x56	46	47

Table 1-10. Temperature Sensors (12-Sled Chassis)

Temperature	Sensor Number	UNCT	UCT
CPU Temp	0x44	71	76
Ambient Temp	0x40	44	47
DIMM Temp	0x4C	68	72
Rear Temp 1	0x54	46	47
Rear Temp 2	0x55	46	47
Rear Temp 3	0x56	46	47

Current Monitoring

BMC supports current sensor as shown in Table 1-11. The current sensor monitoring aims to gain the SLED power consumption for power management used.

Table 1-11. Current Monitoring

Current	Sensor Number	UNCT	UCT
SLED 12V	0x4E	216	252

FAN Control and Monitoring

The BMC receives all fan tachometers of the threshold base from the chassis controller. The following is the table of the fan speed thresholds.

Fan Sensor	Sensor Number	LCT	LNCT
SYS FAN 1	0x68	600 rpm	720 rpm
SYS FAN 2	0x69	600 rpm	720 rpm
SYS FAN 3	0x6A	600 rpm	720 rpm
SYS FAN 4	0x6B	600 rpm	720 rpm
SYS FAN 5	0x6C	600 rpm	720 rpm
SYS FAN 6	0x6D	600 rpm	720 rpm
SYS FAN 7	0x6E	600 rpm	720 rpm
SYS FAN 8	0x6F	600 rpm	720 rpm

Table 1-12. Fan Thresholds

Event Log

U

The Event Log page shows the event logs from the managed system.

NOTE: If the event log belongs to the OEM SEL Record, the Sensor Type field will display the Manufacturer ID and the Description field will display the raw data of the OEM Defined field. Because these logs are recorded by the OS, and need to be decoded by OS, please use the Windows Event Viewer to get further data.

	biensor	Health Headings Event Log				
System Information Configuration Remote Control Maintenance Languages	202100	able of the events from the system ent log category		ory from the pull-down box to filter the ever	th, and also soft them by clicking on a col	lumn header. Event Log: 3 event ent
	Event ID	Time Stamp	Sersor Name	Sensor Type	Description +	creat coy. 5 erent en
	T I	01/11/2011 00:25:20	RUC SET	Event Logging disabled	I og Ares Result Seared - Asserted	
	2	01/11/2011 09:28:39	05	C/S Boot	C. Boot Completed - Asserted	
	3	01/11/2011 09:26:39	OEM Record dc	000137	0046222c4d00	
		efresh Quartin	and i so			

Table 1-13.	Event Log
-------------	-----------

ltem	Description
Select An Event Log	Select one of the following event categories:
Category	• All Event Logs • Sensor-Specific Events
	• BIOS-Generated Events
	• System Management Software Events
Event Log	You can obtain the following information for each event: • Event ID
	• Time Stamp
	• Sensor Name
	• Sensor Type
	Description
Refresh Button	Use this button to refresh the event logs view.
Clear Event Log Button	Click the Clear Event Log button to clear the event logs.

Configuration

The **Configuration** menu allows you to access various configuration settings including Alerts, Mouse Mode, Network, SOL, SNMP, SMTP, Users, PEF, SSL Certification and Web Session settings.

	werts Mouse Mode Metwork SOL	StauP SMTP Users PEF SSL Web Session
stem information erver Health	Options	
emole Control aintenance	Alecta	Add, edit or remove alert destinations
inguages	Moune mode	Change the mouse mode
	Network	See the MAC address or change network settings, including dynamic and static IP assignment
	501.	Configure the Seciel Over LAN settings
	SIMP	Change the SH&P community string
	SMTP	Configure the SMTP email server
	Usera	Add, edit, or remove users
	ESE.	Edit PEF destinations
	SSL Certificate	See the default certificate and private key, or upload an SSL Certificate
	Web Session	Set the web session configuration

Button	Description
Alerts Button	This button takes you to the Alert list page where you can add, edit or remove alert destinations.
Mouse Mode Button	This button takes you to the Mouse Mode settings page where you can view the current setting and/or change the mode of your pointing device to/from either Relative or Absolute.
Network Button	This button takes you to the Network settings page where you can view the MAC address or change network settings, including the dynamic and static IP assignment.
SOL	This buttons takes you to the Serial Over Lan settings page, where you can enable SOL and channel privilege level limits.
SNMP	This button takes you to the SNMP community string page for the SNMP trap server where you can modify the string and save the settings.

Table 1-14.	Configuration Opt	tions
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Button	Description
SMTP	This button takes you to the SMTP settings page where you can configure the SMTP mail server.
Users	This button takes you to the user list page where you can add, edit or remove users.
PEF	This button takes you to the PEF list page where you can configure PEF settings including Event Filter Action, Alert Policy Number, Sensor Type, and Event Trigger.
SSL Certificate	This button takes you to the SSL certificate page where you can upload an SSL Certificate.
Web Session	This button takes you to the Web session configuration page where you can modify the web session timeout value.

Table 1-14. Configuration Options

Alerts

When BMC sends a platform event, such as an environment warning or a component failure, an alert message may be sent to one or more email addresses / IP addresses. On the Alerts page, you can configure alert destinations. To delete an alert, select it and press **Delete**. To create a new alert, select a destination address that has not been configured, yet, from the alert table entry and click **Modify**. To send a test alert, select the alert from the list and click the **Send Test Alert** button.

	Alertia Mouse Mode Network SOL Sh			
System Information Server Health Remote Costrol Maintenance	List of Alerts Below is a list of the configured alert destinations. You destination.	can select an aleft and press the Modily button to configure it, or Send Test Aleft to send	a test alert to the	Alerts - Help
Languages		Alert Ta	ble: 15 entries	Aborts List
	Nert Policy #	Destination Address		A lat of the sint with their policy
	1	192.168.1 148		number, destination address.
	2	may@192.163.1.103		
	3	Not Configured		Accions
	4	Not Configured		Adding Modifying an alert
	5	Not Configured		To add or modify an elert, select the
	0	Not Configured		slot and cick Wodify button. This will redirect alert modification page when
	7	Not Configured		the alert can be configured.
	8	Not Configured		Send Test Alert
	9	Not Configured		To check whether a configured alert
	10	Not Configured		is working, select a slot which is configured and click 'Send Test Alert
	11	Not Configured		button. This will generate a test alert
	Note Sendbackhad	later		to the configured agent. Deterting an alert To delate an airt, select the skill and cloc Detertior button. A notification with the given in the status of the datase action.

Table 1-15.	Alerts
-------------	--------

ltem	Description
Alert Policy #	Lists all alert entries.
Destination Address	Lists the SNMP trap destination IP address or email address for the listed entries.
Modify Button	This button takes you to the Modify Alerts page. You can add a new alert configuration entry or modify an existing entry.
Send Test Alert Button	Select an alert entry and press Send Test Alert to send a test alert.
Delete Button	Select an alert configuration entry and press Delete to delete the entry.

Modify Alert

ell Remote Management			Support Help About Lo
	Alerts Mouse Mode	Network SOL SNMP SMTP Users PEF SSL Web Session	
System Information Server Health Remote Control	Modify Alert Enter the information for the	e alert below and press Save.	Alert Modification - Help E Use his page to configure the Alert. Alert Type
laintenance anguages	Alert Type:	Snmp Trap	select the alert type:
	Destination IP:	192 168.1 148	- Snmp Trap - Email
	Email Address:		Destination IP
	Subject:		The P address of the system that w receive the trap alert.
	Message:		- P Address made of 4
	Save Can	la	numbers separate by data as in "non-concensional" - Each humber ranges from (- "First fluoriber must not be 0. Email Address
			The enail address that will receive the alert messages.
			Subject/Message
			Enter the subject and the message of the email.
			Actions
		_	Save a very save the alert configuration. Status of the action performed will be notified.

Table 1-16. Modify Alerts

ltems	Description
Alert Type	You can select the way an alert is sent when it is triggered by an event.
	• SNMP Trap
	• Email
	NOTE: If you select SNMP Trap as the Alert Type, Email Address, Subject, Message is disabled. If you select Email as the Alert Type, Destination IP is disabled.
Destination IP	Type the SNMP destination IP address into this field, when you select SNMP Trap as the Alert Type.
Email Address	Type the Email address into this field, when you select Email as the Alert Type.
Subject	Type a Subject into this field, when you select Email as the Alert Type.
Message	Type a Message into this field, when you select Email as the Alert Type.
Save	Use this button to save your settings.
Cancel	Use this button to cancel your action.

Mouse Mode

On the Mouse Mode page, you can configure the mouse mode options.



Table 1-17. Mouse Mode

ltem	Description
Current Mouse Mode	Absolute or Relative.
	NOTE: Both Absolute and Relative modes enable you to see two mouse cursors where, the redirected host mouse cursor and the actual local mouse cursor. When the single cursor checkbox is selected, only the redirect mouse cursor is visible.
Set Mode to Absolute Option	Select this option to select mouse mode to Absolute, depending upon your system.
Set Mode to Relative Option	Select this option to select mouse mode to Relative , depending upon your system. If you select the single mouse checkbox, it locks the local mouse cursor inside the redirected window and the user has to press < Alt+M > to unlock and stop mouse redirection. Here < Alt+M > is basically used to start or stop mouse redirection.
Save Button	Use this button to make the settings active.

IPMI is an OS-independent platform, and KVM support is an added feature for IPMI. For your mouse to function properly, please configure the mouse mode settings according to the mouse is absolute coordinates or relative

coordinates on your host server. For example, it is recommended to use absolute / relative mouse mode when your host server is running in Windows or Linux.

NOTE: When you choose the relative mouse mode. The redirected host mouse cursor may not overlap with the actual local mouse cursor (depending on the mouse cursor acceleration setting of the host OS). If this situation occurs, it is recommended to select the single cursor checkbox.

Network

The Network page allows you to view and modify the network settings. Select whether to obtain an IP address automatically or manually configure one.

	Alerts Mouse Mode	Metwork SOL SMUP SMTP Users PEF SSL Web Session	
erver Health Ierrote Control Iaintenance	Network Settings You can view and modify the re	twork settings on this page. Select whether to obtain an IP address automatically or manually configure one.	Network - Help Use the says to configure the network settings MAC Address
anguages			The MAC address of the device (read only).
	MAC Address	00/16/00/25/08/31	# Address
	O Ottain an IP address as	dimatically (use DHCP)	Select the type of P assignent with the radio buttone. If configuring a
	O Use the following IP add		static P, enter the requested address subnet mask, and gateway in the
	P Address	192 168 1.45	given fields.
		and the second se	PAddress made of 4
	Subnet Mask	265 265 8	numbers seperated by dota as in "xxx xxx xxx xxx.
	Default Gateway	0.0.0.0	 Each Number ranges from to 255
	O Ottain DNS IP address	automatically (use DHCP)	 First Number must not be 0
	O Use the following DNS	P address	DNS Server Address Select the type of P assignment with
	Primary DNS Server	192.168.1.17	Seecific type of Plassgreent with the radio buttors. If configuring a static P, enter the requested DNS annuer addressin the given fields.
	Secondary DWS Server	192.168.1.79	Note: // configuring a static IP, you
	Enable DNS Register B	MC Host Name	can't get DNE server address from DHCP server
	DNS BMC Host Name	bmc-1234567-01	
	Enable DNS Domain N		DWS BMC Host Name Enable/Deable to register this addres
	L) Enable DNS Domain N	anie (use Linur)	with the DNS. The DNS BUC Host

NOTE: To change any of the settings on the Network Configuration page, you must have permission to configure the BMC. Do not do network configuring when the server is in BIOS mode; the network configuration may be conflict with the BIOS.

Table 1-18. Network

ltem	Description
MAC Address	This field shows the MAC address.
Obtain an IP address automatically (use DHCP)	This option allows the BMC's IP to be configured by a DHCP server (dynamically).

ltem	Description
Use the following IP address	This option allows you to configure a static IP. The IP Address, Subnet Mask, and Gateway fields become editable when this option is selected.
IP Address	This field allows you to set the BMC's IP address.
Subnet Mask	This field allows you to set the Subnet Mask.
Default Gateway	This field allows you to set the BMC's Gateway access address.
Obtain DNS IP address automatically	This option allows the DNS IP to be configured by a DHCP server (dynamically).
Use the following DNS IP address	This option allows you to configure the DNS IP address with a static IP. The Primary and Secondary DNS Server will become editable when this option is selected.
Primary DNS Server	Specify the IP address of the preferred DNS server.
Secondary DNS Server	Specify the alternative IP address to be used when the preferred DNS server is not available.
Enable DNS Register BMC Host Name	When checked, it will register with the Domain Name Server. DNS BMC Host Name field will become read-only when this option is selected.
DNS BMC Host Name	Specifies the DNS BMC host name.
Enable DNS Domain Name (use DHCP)	Enable / disable acquisition of DNS Domain Name from DHCP server. DNS Domain Name field will become read-only when this option is selected.
DNS Domain Name	Specified the DNS domain name.
Save Button	Use this button to save your settings.

Table 1-18 Network

NOTE: If you configure the IP address with a static IP, you can't get the DNS IP address from the DHCP server.



NOTE: If you want to update the DNS information with the DNS server, you must select "Obtain an IP address automatically" to get IP address dynamically. And the DNS server IP will provide by the DHCP server.

VLAN Settings

	Alerts Mouse Mode Network SOL SNMP SMTP Users PEF SSL Web Session	
item Information erver Health	VLAN Settings	VLAN - Help
mote Control	REPAIR ON WARD T	Use this page to configure the VLAN settings.
sintenance	Enable VLAN	Enable VLAN
nguages	VLAN ID 0	Enable / disable VLAN function.
	VLAN Priority	VLANID
	Save Cancel	Identification for VLAN interface. The
	3403	range of VLAN ID is from 2 to 4096
		VLAN Priority
		The range of VLAN priority is from 0 to 7 (7 is the highest priority). This field can be set only if user login we page via VLAN interface.
		Actions
		Save Click to save any changes.
		Cancel Click to back to network settings part

Table 1-19. VLAN Settings

Items	Description
Enable VLAN	Enable / disable VLAN function.
	Note: If enabled, BMC will only accept packets for this channel if they have 802.1q fields and their VLAN ID matches the VLAN ID field.
VLAN ID	Identification for VLAN Interface. The range of VLAN ID is from 2 to 4094.
VLAN Priority	The range of VLAN Priority is from 0 to 7 (7 is the highest priority). This field can be set only if user login web page via VLAN interface.
Save	Use this button to save your settings.
Cancel	Use this button to cancel your action, and back to network settings page.

SOL

The SOL page allows you to configure the Serial Over LAN settings, select or change pertinent values for each attribute and save any changes.

	Alerts Mouse Mode Network	SOL SNMP SMTP Users PEF SSL Web Session	
tem Information over Health mote Control	Serial Over LAN Settings You can configure Serial Over LAN Settings	on this page.	Serial Over LAN - Help Use this page to configure the SOU settings.
intenance			Enable Serial Over LAN
iguages	Enable Serial Over LAN		Enable/Disable Serial Over LAN.
	Channel Privilege Level Limit	User	Channel Privilege Level Limit
			- Operator - User Actions
			Save Click to save any changes.
			Advanced SOL Settings Click to set SOL advanced configuration.

Table 1-20. Serial Over LAN Settings

ltem	Description
Enable Serial Over LAN	Check this field to enable (checked) or disable (unchecked) Serial Over LAN.
Channel Privilege Level Limit	 Select the IPMI Serial Over LAN (minimum) user privileges: Administrator Operator User
Save	Use this button to save any settings changes.
Advanced SOL Settings	Use this button to enter the Advanced SOL page.

SOL Advanced Settings

Alerts Mouse Mode Ne	work SOL SNMP SMTP Users PEF SSL Web Session	
Sprieten Meternation Server Headin Maintenance Languages Character Accumulate Intervi- Character Send Threshold Save Canact	I Settings Over LAN Settings on this page.	Asymptote SOL - Methy The time page to configure the strength of the source of the source of the <i>Conference of Communities</i> between <i>Conference of Communities</i> between SOL of the source of the size and the SOL of the source of the size and the SOL of the source of the size and the SOL of the source of the size and the source of the size and the source of the SOL of the source of the size and the source of the size and the source of the SOL of the source of the size and the source of the source of the source of the SOL of the source of the SOL on settings appendix

Table 1-21. Advanced SOL settings

ltem	Description
Character Accumulate Interval	The amount of time that the BMC will wait before transmitting a partial SOL character data package. 1-based 5ms increments. This value must be less than 255.
Character Send Threshold	The BMC will send an SOL character data package containing the characters as soon as this number of characters (of greater) has been accepted. 1-based units. This value must be less than 255.
Save	Use this button to save your advanced settings.
Cancel	Use this button to back to SOL page.

SNMP

The SNMP page displays the community string page for the SNMP trap server. You can modify the community string and save the new settings.

ell Remote Management	Centreller	Support Help About L
DELL		
	Configure Alerts Mouse Mode Network SOL	
System Information Server Realth Remote Control Maintenance Languages	Simple Network Management Protocol Settings Displays the SMAP community to which the destination P address belongs.	SNMP + Jeep Enter the community string for the SNMP trap server and press Save.
	Community String Quanta	Commonly Saring The Community atms that creatmatum IP address belows
	Jaw	Actions Server Press is as on then ensure (SMSP community withing

Table 1-22. SNMP

ltem	Description
Community String	In the field, enter the SNMP community string for the destination IP address.
Save Button	Use this button to save the new settings.

SMTP

The SMTP page allows you to configure the SMTP mail server.

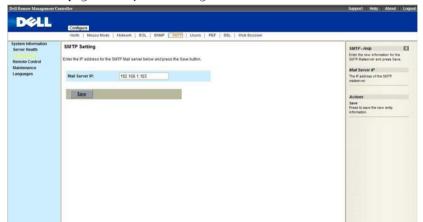


Table 1-23. SMTP

ltem	Description
Mail Server IP	This field allows you to configure the IP address of the SMTP mail server.
Save Button	Use this button to save your settings.

Users

The Users page allows you to view the current list of user for the server. If you would like to delete or modify a user, select their name in the list and click Delete User or Modify User. To add a new user, select an un-configured slot and select Add User



NOTE: Only user accounts over administrative rights are allowed to add, edit and delete users, but administrative level privileges still can't delete root, anonymous and itself. If a new user is given administrative privileges, permissions are automatically granted for all interfaces.

stem information				
erver Health emote Control	User List The tabletion shows the current last of configured users. If you would like to delete or modify a user, select their name in the last and press. Delete User or Modify User. To add a new user, select an unconfigured told and press. Add User.			User Management - Help
Maintenance Languages			Number of configured users: 3	The list of configured users, along with their primisations for the network and seriel connections.
	UserID -	User Name -	Network Privilege	
	1	anonymous	User	Actions
	2	root	Administrator	Addüser
	3	Test	Operator	Select an empty slot in the lat and
	4			click to add a new user.
	5			Bodity User
	6			Select a user in the lat and click to
	.7		*	modify they settings.
	N.		*	Delete User
	9	-		Select a user in the list and click to
	10			dekte
	Antitisar	Unclife Upont		

ltem	Description
UserID Column	This column shows the ID number used in association with the User Name.
User Name Column	This column shows a list of all users who are able to access this BMC.
	NOTE: The default administrator is root. It is prudent for you to change the root password.
Network Privilege Column	This column shows the network rights associated with the account.
Add User Button	Use this button to add a new user. Select an open field first.

ltem	Description
Modify User Button	Use this button to modify an existing user. Select a user first.
Delete User Button	Use this button to delete an existing user. Select a user first.

Add New User

ill Remote Management	Centraller		Support Help About Lo
DELL			
	Configure		····
	Alerts Nouse Mode 1	letwork: SOL, SNMP SMTP Users PEF SSL Web Session	
System Information Server Health	Add New User	user below and press Add. Press Cancel to return to the user list.	Adding User - Help
mote Control	Enter the information for the new	user below and press Add. Press Cancel to return to the user list.	Uner Name
intenance nguages	User Name:	Test	The name of the new user.
	Password		- User Name is a string of 4 15 abba-numeric character
	Confirm Password		 J must starts with an alphabet.
	Network Privileges:	Operator	Special characters like are allowed, but not in the prefix and author. And other
	Add Cancel		pretix and surfux. And other special characters like : and space are not allowed.
			Following are the reserved usernan bet
			• - daemon
			• - games • - hat
			• - mail
			 -news -nobody
			- operator
			- root - shuttown
			• - sahd
			stunneli sync
			• - web
			Password, Confirm Password
			Exter and confirm the new password here.
			1010

Add New User

ltem	Description
User Name	Enter a user name in the user name field. Your user name must be a string of 4 to 15 alpha-numeric characters.User names are case-sensitive and must start with an alphabetical character.
Password	Enter a password in the Password field. Your password must be a string of 8 to 20 alpha-numeric characters.
	NOTE: Use a combination of alphanumeric and special characters for better security. The password is case-sensitive.
Confirm Password	Confirm your password by entering your password again in the Confirm Password field.

Add New User

ltem	Description
Network Privileges Drop Down Menu	Assign network permissions and access rights to any of the following:
	• User
	• Operator
	• Administrator
	OEM Proprietary
	No Access
Add Button	Use this button to add the new user.
Cancel Button	Use this button to cancel this action.

- 1

Modify User

ell Remote Management	t Centreller		Support Help About Lo		
DELL	Configure				
		twork SOL SNUP SMTP Users PEF SSL Web Session			
rstem information ierver Health	Modify User		Modifying Uper - Help		
mote Control	Enfer the new information for the	Enter the new information for the user below and press Modify. Press Cancel to return to the user list.			
aintenance Inguages	User Name:		Uter Name		
		Change Password	The name of the user being configured (read only).		
	Password		Change Password		
	Confirm Password:		To change the user's password, check the 'change password' check box. This will enable the password		
	Network Privileges:	Operator 🔛	Seida.		
	Modify Cancel		Password, Confirm Password		
	MORE SHOLE		Enter and confirm the new password have.		
			Assword must be a string of 8 to 20 signa-numeric characters.		
			Network Privileges		
			The level of network prolege to anoign to this user.		
			Actions		
			Bloodify Cick on nodify button to accept the modifications and return to the user list.		
			Cancel Cirk to cancel this motification		

Table 1-24. Modify User

Item	Description	
User Name	This field contains the user name being modified. This field cannot be modified.	
Change Password Box	Select this box to change the password.	
Password	Enter a password in the Password field. Your password must b a string of 8 to 20 alpha-numeric characters. NOTE: Use a combination of alphanumeric and special characters for better security. The password is case-sensitive.	
Confirm Password	Confirm your password by entering your password again in the Confirm Password field.	
Network Privileges Drop Down Menu	Modify network permissions and access rights to any of the following: • User	
	• Operator	
	• Administrator	
	OEM Proprietary	
	• No Access	
Modify Button	Use this button to update the user account.	
Cancel Button	Use this button to cancel this action.	

PEF

The PEF page allows you to configure the platform event filters. The Platform Event Filters List displays the actions that will execute when an event occurs. An event occurs when the status of a system element is outside a set limit. You can select a PEF and press the **Modify** button to configure it. Or you can press **Delete** to remove it.

erver Health	List of PE	F It of the configured PEF destin	ations. You can seler	ct a PEF and press the Modify	button to contigure it.		PEF - Help Use the page to see the lat of platform event filter
laintenance					PEF Table	: 40 entries	PEFList
anguages	PEF#	Event Filter Action	Sensor Type	Sensor Num	Event Trigger	and an and a	A lat of the per with their D, event filter action, sensor type, sensor nur
	1	[Alert] [Power Down]	Temperature	151	[Upper Critical-going high]		and event trigger.
	2	No Action	No SensorType	No Sensor	No Threshold		
	3	No Action	No SensorType	No Sensor	No Threshold		Actions
	4	No Action	No	No Sensor	No Threshold		Modify Select a per in the list and click to modify their settings
	5	No Action	No SensorType	No Sensor	No Threshold		
	0	No Action	No SensorType	No Sensor	No Threshold		
	7	No Action	No SensorType	No Sensor	No Threshold		
	8	No Action	No SensorType	No Sensor	No Threshold		
		Hadden	No	No. 0	Alle Three shall d		
						_	

Table 1-25. PEF

ltem	Description
PEF#	Number of PEF configuration entry. There are 40 PEF configuration entries in the system.
Event Filter Action	Specify the corresponding action for a PEF triggered event.
Sensor Type	Displays the sensor type.
Sensor Num	Displays the sensor number.
Event Trigger	Show the threshold type to cause the event occurs.

Modify PEF

Change the attributes, and click the **Save** button to save any changes. If you want to cancel this action, click the **Cancel** button to return to PEF list page.

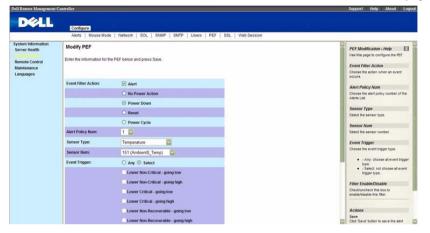


Table 1-26. Modify PEF

ltem	Description	
Event Filter Action	 Check/uncheck the Alert box to enable/disable alert occurs. You can select one of power operation. If event occurs, the power action will perform. No Power Action Power Down Reset Power Cycle 	
Alert Policy Num	Choose the alert policy number of the Alerts List.	
Sensor Type	Select the sensor type.	
Sensor Num	Enter the sensor number.	
Event Trigger	Choose the event trigger type.Any: choose all trigger type eventsSelect: choose a single trigger type event	
Filter Enable/Disable	Check/uncheck this box to enable/disable this filter.	

L

SSL Certificate

The SSL Certificate page allows you upload a new SSL certificate.

The SSL page does not support encryption of private keys, for example: DES, AES, etc. Upload unencrypted private key to access support.

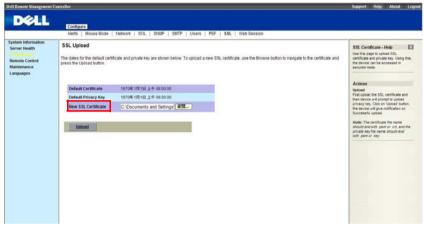


Table 1-27. PEF

ltem	Description
Default Certificate	Displays the time of creation of the default certificate.
Default Privacy Key	Displays the time of creation of the existing privacy key.
New SSL Certificate	Use the Browse button to select a new certificate to upload.
Upload Button	Use this button to upload the previously selected certificate.

The Certificate file name should end with the file suffix *.pem* or *.crt*. After you click on the Upload button, the new SSL certificate will replace the existing certificate.

Uploading Private Key

Dell Remote Management	Centreller			Support Help About Log
DELL				
	Configure			
	Alerts Mouse Mode	Network SOL SNMP SMTP Users F	PEF SSL Web Session	
System Information Server Health	SSL Upload			SSL Certificate - Help
Remote Control Maintenance Languages	The dates for the default cert press the Upload button.	Use this page to upload SSL certificate and private key. Using this, the device can be accessed in secured mode.		
	Default Certificate			Actions
	Default Cerolicate Default Privacy Key	1970年1月1日上午 09:19:32 1970年1月1日上午 08:00:00		Upload First upload the SSL certificate and then device will prompt to upload
	New Private Key	D. Work ProjectPaper/cert (L	privacy key. Click on 'Upload' button, the device will give notification on Successful upload.
	Upload			Note: The certificate file name should end with pem or crt, and the private key file name should end with pem or key.

Table 1-28. SSL Private Key Upload web page

ltem	Description
Default Certificate	Displays the creating time of the existing certificate.
Default Privacy Key	Display the creating time of the existing privacy key.
New Private Key	Click to choose the new Private Key that you want to upload.
Upload	Click to start upload Private Key.

The Private Key file name should end with *.pem* or *.key*. After you upload the new Private Key, the web server will restart. You must close this browser session and open a new browser session to reconnect to the device.

L

Web Session

The Web Session page allows you to change web session time out values. The default value is 300 seconds. If you don't active web within 300 seconds, the web session will time out and you must login again.

D¢LL	Configure	
	Alerts Mouse Mode Network SOL SNMP SMTP Users PEF SSL Web Sension	
System Information Server Health Remote Control Maintenance	Web Session	Web Session - Help
	You can configure the web session timeout seconds on this page.	configuration.
anguages	O Never Time Out	Never Time Out Select this option and the web serve
	© Setting Time Out Seconds	could not time out forever.
	Comparison of the second se	Setting Time Out Seconds
	Time Out 300 (seconds)	Select this option to set web server time out value.
	See	Note: The Time Out value must between 1 to 7200, and the default value is 300.
		Actions
		Save Press to save the new web session configuration.

Table 1-29.	PEF
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ltem	Description
Never Time Out	This option allows the web session never time out.
Setting Time Out Seconds	This option allows you to configure the web session time out value. The Time Out field will become editable when this option is selected.
Time Out	Specify the time out value.
	NOTE: The Time Out value must be between 30 to 7200 seconds. The default value is 300 seconds.
Save	Use this button to save your settings.

Remote Control

The Remote Control menu allows you to initiate Console Redirection and to view the Power Control options.



NOTE: The Console Redirection page is ONLY enabled in the AST2050 BMC chipset.

Console Redirection

The Console Redirection page enables you to use the display, mouse, and keyboard on the local management station to control the corresponding devices on a remote managed system. Click on Java Console to launch the Iava-based remote console.



NOTE: Before you can use the Console Redirection feature, your browser must have the JRE installed in your operating system. The umber of sessions allowed is two.



NOTE: The recommended display resolution on the management station (or client) is at least 1024 x 768 pixels at 60 Hz with 32 bit color. You cannot view the console in full screen mode if your monitor resolution is less than the minimum.



NOTE: If Console Redirection is launched and not closed, the web session timeout function is closed.

DØLL	Remote Control Conside Reflecture Server Power Control	
System Hedrenston Server Haadh Configuration Maintenance Languages	Console Redirection Press the button to launch the redirection console and manage the server remotely. Please Press the Jane Console to launch. Janea Console	Console Redirection - Area Use bia page the bunch the result of the second result of the second result of the second Console Console Console - Con

T

ltem	Description
Java Console	Use this button to launch the redirection console using Java viewer.

Table 1-30. Console Redirection, Java Console Launch

Keystroke	Description
<alt+s></alt+s>	Start Console Redirection
<alt+t></alt+t>	Stop Console Redirection
<alt+r></alt+r>	Restart Console Redirection
<alt+f></alt+f>	Toggle Full Screen Mode
<alt+m></alt+m>	Synchronize Mouse
<alt+a></alt+a>	Hold/Unhold Right <alt> Key</alt>
<alt+b></alt+b>	Hold/Unhold Left <alt> Key</alt>
<alt+l></alt+l>	Hold/Unhold Right <ctrl> Key</ctrl>
<alt+n></alt+n>	Hold/Unhold Left <ctrl> Key</ctrl>
<alt+d></alt+d>	Generate <ctrl>, <alt>, + </alt></ctrl>
<alt+e></alt+e>	Start CD-ROM Drive Redirection

Table 1-31. Remote Console Shortcut Key Combinations

Table 1-32. Console Redirection Window: Keyboard

Menu Item	Description
Hold Right Ctrl Key	This menu item can be used to act as the right-side <ctrl> key when in Console Redirection.</ctrl>
Hold Right Alt Key	This menu item can be used to act as the right-side <alt> key when in Console Redirection.</alt>
Hold Left Ctrl Key	This menu item can be used to act as the left-side <ctrl> key when in Console Redirection.</ctrl>
Hold Left Alt Key	This menu item can be used to act as the left-side <alt> key when in Console Redirection.</alt>

Menu Item	Description	
Left Windows Key	This menu item can be used to act as the left-side <win> key when in Console Redirection. You can also decide how the key should be pressed:</win>	
	• Hold Down	
	• Press and Release	
Right Windows Key	This menu item can be used to act as the right-side <win> key when in Console Redirection. You can also decide how the key should be pressed:</win>	
	• Hold Down	
	• Press and Release	
<alt+ctrl+del></alt+ctrl+del>	This menu item can be used to act as if you pressed the <ctrl>, <alt> and keys down simultaneously on the server that you are redirecting.</alt></ctrl>	

Table 1-32. Console Redirection Window: Keyboard

Table 1-33.	Console	Redirection	Window: Mouse
	00110010	nounoonon	Williaow. Mouoo

Menu Item	Description
Sync Cursor	This menu item can be used to synchronize or un- synchronize the mouse cursor.
Show Cursor	This menu item can be used to show or hide the local mouse cursor on the remote client system.

Item	Description	
Bandwidth	The bandwidth usage option allows you to adjust the bandwidth. You can select one of the following:	
	• Auto Detect	
	• 256 Kbps	
	• 512 Kbps	
	• 1 Mbps	
	• 10 Mbps	
	• 100 Mbps (Default Setting)	
KB/Mouse Encryption	This option allows you to encrypt keyboard inputs and mouse movements sent between the connections.	

Table 1-34. Console Redirection Window: Options

Table 1-35.	Console Redirection Wind	ow: Options
-------------	---------------------------------	-------------

ltem	Description
Video Settings	Hide the hardware cursor, and transmit video deltas only.
Video Engine Configuration Settings	• Compression Mode: YUV compression, where Y is luminance and UV is chrominance.
	 DCT Quantization Table: number to control DCT quality.

Table 1-36. Console Redirection Window: D	Device
---	--------

Menu Item	Description
Redirect CDROM	This menu item can be used to start or stop the redirection of a physical DVD/CD-ROM drive.
Redirect ISO	This menu item can be used to start or stop the redirection of a DVD/CD ISO image.
Redirect Floppy/USB Key	This menu item can be used to start or stop the redirection of a physical floppy/USB key drive.

Table 1-36. Console Redirection Window: Device

Menu Item	Description
Redirect Floppy/USB Key Image	This menu item can be used to start or stop the redirection of a floppy/USB key image, instead of a physical driver.

Table 1-37. Console Redirection Window: Help

Menu Item	Description
About JViewer	Shows the copyright and version information.

Power Control

The Power Control page allows you to view and control the power of your server. Select one of the options listed in the following table to execute on your server. You are asked to confirm your choice. Upon confirmation, the command is executed and you are informed of the status.



Table 1-38.	Power Control	and Status
-------------	---------------	------------

Menu Item	Description
Reset Server Option	Select this option to reset the server.

T

Table 1-38. Power Control and S

Menu Item	Description
Power Off Server - Immediate Option	Select this option to power down the server immediately.
Power Off Server - Orderly Shutdown Option	Select this option to power down the server gracefully.
Power On Server Option	Select this option to power up the server.
Power Cycle Server Option	Select this option to power cycle the server.
Perform Action Button	Select this button to execute the option selected.

Maintenance

The **Maintenance** menu allows you to perform maintenance tasks on the device including the Firmware Update. Refer to "Firmware Update" on page 11.

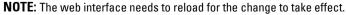
Dell Remote Management	Cantesller	Support Help About Log
DØLL		
psen Hormation General Hauth Sancto Costrol Ampoops	Firmware Update Press Enter Update Blode to put the device is a special mode the device immerie update. Rease note that once you enter update mode the device unit water of the update process is calculated. Enter Locate Blode	Formular Option - Jobp The page can be used to get the "means option to it to structure Charle Control Charle Control The event of the structure the develope is be spaced with the subgrade mode. A cancel events and the develope is be spaced with the subgrade mode. A cancel events and the develope is be spaced with the subgrade mode. A cancel events and the develope is the structure of the devel

Languages

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The Languages menu allows you to select the language for the web application. Select the language from the drop down list and click Apply.





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IPMI 1.5 / 2.0 Command Support List

Command	NetFn	CMD	0/M	Supported
Get Device ID	Арр	01h	М	Yes
Cold Reset	App	02h	Ο	Yes
Warm Reset	App	03h	Ο	No
Get Self Test Results	App	04h	М	Yes
Manufacture Test On	App	05h	Ο	Yes
Set ACPI Power State	App	06h	Ο	Yes
Get ACPI Power State	App	07h	Ο	Yes
Get Device GUID	App	08h	Ο	Yes
Broadcast Command:				
Broadcast 'Get Device ID'	Арр	01h	М	No

Table 1-39. IPMI Device Global Commands

Table 1-40. BMC Device and Messaging Commands

Command	NetFn	CMD	O/M	Supported
Set BMC Global Enables	Арр	2Eh	М	Yes
Get BMC Global Enables	Арр	2Fh	М	Yes
Clear Message Buffer Flags	Арр	30h	М	Yes
Get Message Buffer Flags	Арр	31h	М	Yes
Enable Message Channel Receive	Арр	32h	Ο	Yes
Get Message	Арр	33h	М	Yes
Send Message	Арр	34h	М	Yes
Read Event Message Buffer	Арр	35h	Ο	Yes
Get BT Interface Capabilities	Арр	36h	М	No
Get System GUID	Арр	37h	0	Yes

Command	NetFn	CMD	O/M	Supported
Get Channel Authentication Capabilities	Арр	38h	0	Yes
Get Session Challenge	Арр	39h	0	Yes
Activate Session Command	Арр	3Ah	0	Yes
Set Session Privilege Level Command	Арр	3Bh	Ο	Yes
Close Session	Арр	3Ch	Ο	Yes
Get Session Information	Арр	3Dh	Ο	Yes
Get Authentication Code Command	Арр	3Fh	Ο	Yes
Set Channel Access Commands	Арр	40h	Ο	Yes
Get Channel Access Commands	Арр	41h	Ο	Yes
Get Channel Info Command	Арр	42h	Ο	Yes
Set User Access Commands	Арр	43h	0	Yes
Get User Access Commands	Арр	44h	0	Yes
Set User Name Commands	Арр	45h	Ο	Yes
Get User Name Commands	Арр	46h	0	Yes
Set User Password Commands	Арр	47h	Ο	Yes
Active Payload Command	App	48h	Ο	Yes
Deactivate Payload Command	App	49h	Ο	Yes
Get Payload Activation Status	Арр	4Ah	Ο	Yes
Get Payload Instance Info Command	Арр	4Bh	Ο	Yes
Set User Payload Access	Арр	4Ch	Ο	Yes
Get User Payload Access	Арр	4Dh	Ο	Yes
Get Channel Payload Support	Арр	4Eh	Ο	Yes
Get Channel Payload Version	Арр	4Fh	Ο	Yes
Get Channel OEM Payload Info	Арр	50h	Ο	Yes

Table 1-40. BMC Device and Messaging Commands

Command	NetFn	CMD	O/M	Supported
Master Write-Read I2C	Арр	52h	М	Yes
Get Channel Cipher Suites	App	54h	Ο	Yes
Suspend/Resume Payload Encryption	Арр	55h	Ο	Yes
Set Channel Security Keys	App	56h	Ο	Yes
Get System Interface Capabilities	Арр	57h	Ο	Yes

Table 1-40. BMC Device and Messaging Commands

Table 1-41. BMC Watchdog Timer Commands

Command	NetFn	CMD	0/M	Supported
Reset Watchdog Timer	Арр	22h	М	Yes
Set Watchdog Timer	App	24h	Μ	Yes
Get Watchdog Timer	Арр	25h	М	Yes

Table 1-42. Chassis Commands

Command	NetFn	CMD	0/M	Supported
Get Chassis Capabilities	Chassis	00h	М	Yes
Get Chassis Status	Chassis	01h	М	Yes
Chassis Control	Chassis	02h	М	Yes
Chassis Reset	Chassis	03h	О	No
Chassis Identify	Chassis	04h	О	Yes
Set Chassis Capabilities	Chassis	05h	О	Yes
Set Power Restore Policy	Chassis	06h	Ο	Yes
Get System Reset Cause	Chassis	07h	O[1]	Yes
Set System Boot Options	Chassis	08h	О	Yes
Get System Boot Options	Chassis	09h	Ο	Yes
Set Front Panel Button Enable	Chassis	0Ah	Ο	Yes
Set Power Cycle Interval	Chassis	0Bh	Ο	Yes

Table 1-42. Chassis Commands

Command	NetFn	CMD	0/M	Supported	
Get POH Counter	Chassis	0Fh	0	Yes	
[1] Optional portion of Get System Reset Cause is not support.					

Table 1-43. Event Commands

Command	NetFn	CMD	0/M		Supported
			Even Receiver	Event Generator	-
Set Event Receiver	S/E	00h	М	М	Yes
Get Event Receiver	S/E	01h	М	М	Yes
Platform Event	S/E	02h	М	М	Yes

Table 1-44. SEL Commands

Command	NetFn	CMD	0/M	Supported
Get SEL Info	Storage	40h	М	Yes
Get SEL Allocation Info	Storage	41h	Ο	Yes
Reserve SEL	Storage	42h	Ο	Yes
Get SEL Entry	Storage	43h	М	Yes
Add SEL Entry	Storage	44h	М	Yes
Partial Add SEL Entry	Storage	45h	М	Yes
Delete SEL Entry	Storage	46h	Ο	Yes
Clear SEL	Storage	47h	М	Yes
Get SEL Time	Storage	48h	М	Yes
Set SEL Time	Storage	49h	М	Yes
Get Auxiliary Log Status	Storage	5Ah	Ο	No
Set Auxiliary Log Status	Storage	5Bh	Ο	No



NOTE: Support for **Partial Add SEL** is not required when **Add SEL** is supported.

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

Table 1-45. SDR Repository Commands

Table 1-46. FRU Inventory Device Commands

Command	NetFn	CMD	0/M	Supported
Get FRU Inventory Area Info	Storage	10h	М	Yes
Read FRU Inventory Data	Storage	11h	Μ	Yes
Write FRU Inventory Data	Storage	12h	М	Yes

Command	NetFn	CMD	0/M	Supported
Get Device SDR Info	S/E	20h	О	No
Get Device SDR	S/E	21h	Ο	No
Reserve Device SDR Repository	S/E	22h	Ο	No
Get Sensor Reading Factors	S/E	23h	О	Yes
Set Sensor Hysteresis	S/E	24h	Ο	Yes
Get Sensor Hysteresis	S/E	25h	О	Yes
Set Sensor Threshold	S/E	26h	Ο	Yes
Get Sensor Threshold	S/E	27h	Ο	Yes
Set Sensor Event Enable	S/E	28h	Ο	Yes
Get Sensor Event Enable	S/E	29h	Ο	Yes
Re-arm Sensor Events	S/E	2Ah	Ο	Yes
Get Sensor Event Status	S/E	2Bh	Ο	Yes
Get Sensor Reading	S/E	2Dh	М	Yes
Set Sensor Type	S/E	2Eh	Ο	No
Get Sensor Type	S/E	2Fh	Ο	No
Set Sensor Reading and Event Status	S/E	30h	М	Yes

 Table 1-47.
 Sensory Device Commands

Table 1-48. LAN Commands

Command	NetFn	CMD	0/M	Supported
Set LAN Configuration Parameters	Transport	01h	М	Yes
Get LAN Configuration Parameters	Transport	02h	М	Yes
Suspend BMC ARP	Transport	03h	Ο	Yes
Get IP/UDP/RMCP Statistics	Transport	04h	Ο	No

NOTE: LAN parameter from 192 to 255 is reserved for OEM parameters.

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Table 1-48. LAN Commands

Command	NetFn	CMD	0/M	Supported
NOTE: Parameter 192 is used for DHCP Retry by DCS requirement.				

Table 1-49. SOL Command

Command	NetFn	CMD	O/M	Supported
SOL Activating	Transport	20h	0	No
Set SOL Configuration Parameters	Transport	21h	Ο	Yes
Get SOL Configuration Parameters	Transport	22h	Ο	Yes

Table 1-50. PEF/PET Alerting Commands

Command	NetFn	CMD	0/M	Supported
Get PEF Capabilities	S/E	10h	М	Yes
Arm PEF Postpone Timer	S/E	11h	Μ	Yes
Set PEF Configuration Parameters	S/E	12h	М	Yes
Get PEF Configuration Parameters	S/E	13h	М	Yes
Set Last Processed Event ID	S/E	14h	М	Yes
Get Last Processed Event ID	S/E	15h	М	Yes
Alert Immediate	S/E	16h	Ο	Yes
PET Acknowledge	S/E	17h	Ο	Yes

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