MicroBlade™

Web-based Management Utility

USER'S MANUAL

Revison 1.0d

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Preface

About this Manual

This manual is written for professional system integrators, Information Technology professionals, service personnel and technicians. It provides information for the use of Supermicro's MicroBlade Web-based Management Utility.

Manual Organization

Chapter 1: Introduction

The first chapter provides an introduction about the Web-based Management Utility.

Chapter 2: Blade System

This chapter covers the menu options and controls for the Blade System menu.

Chapter 3: System Health

This chapter covers the menu options and controls for the System Health menu.

Chapter 4: Configuration

This chapter covers the menu options and controls for the Configuration menu.

Chapter 5: Remote Console

This chapter covers the use of the Remote Console menu.

Chapter 6: Maintenance

This chapter covers the use of the Maintenance menu.

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Chapter 1
Introduction

The MicroBlade Web-based Management Utility is a web-based interface that consolidates and simplifies system management for Supermicro MicroBlade systems. The MicroBlade Web-based Management Utility aggregates and displays data from the SIMCM (the IPMI card designed for Supermicro's MicroBlade Chassis Management Module).

The MicroBlade Web-based Management Utility provides the following key management features:

- Enables IT administrators to view in-depth hardware configuration and status information using a single intuitive interface.
- Provides an OS-independent, remote graphical console.
- Allows remote users to map local media (floppy, CD-ROM, removable disks and hard drives) or ISO images on a shared network drive to a blade server.

Supported Browsers

The following browsers have been tested for use with the MicroBlade Web-based Management Utility. It is recommended that you use the most current revision of the browser you choose. The minimum browser revisions supported by the MicroBlade Web-based Management Utility are shown below:

- Internet Explorer 7
- Firefox 2.0.0.7
- Netscape 9.03b
- Google Chrome

1-1 Network Connection/Login

To log into the MicroBlade Web-based Management Utility:

1. Launch a web browser.
2. In the address field of the browser, enter the IP address that you assigned to the MicroBlade Chassis Management Module (CMM) and hit the <ENTER> key.
3. When the browser makes contact with MicroBlade Chassis Management Module, enter your *username* and *password*, then click LOGIN.
4. The WEB-BASED MANAGEMENT UTILITY HOME PAGE will then display as shown in Figure 1-1.

Reset

To reset the Web-based Management Utility simply press push a pen tip into the reset hole in the back of the CMM module. This will reset the system. See the *MicroBlade Network Modules User's Manual* for further details.

Address Defaults

Table 1-1 shows the default addresses that are initially set for the CMM. Afterwards, you can change these values within the program (see Chapter 4).

Table 1-1. Address Defaults

Default	Description
Default IP Address	**https://192.168.100.100**
Default Gateway Address	0.0.0.0
Default Subnet Mask	255.255.255.0
Default username	ADMIN
Default password	ADMIN

1-2 Page Elements and Controls

Figure 1-1 and Table 1-2 respectively display a WEB-BASED MANAGEMENT UTILITY HOME PAGE elements and its controls.

Figure 1-1. Home Page

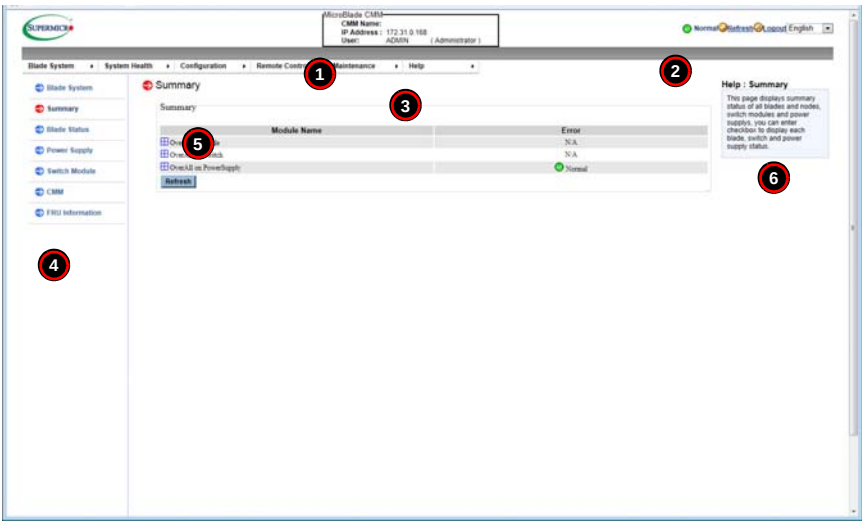


Table 1-2. Home Page Elements and Controls

Item	Name	Description
1	Host Identification	This displays the host identification information including host server IP address and user ID.
2	Page Controls	Control links for page refresh and logout are found here in the upper right corner of the page. Additionally, there is a LANGUAGE drop-down list box for selecting the language used.
3	Menu Bar	This menu bar contains control buttons for the MicroBlade Web-based Management Utility's menus. Clicking on a button brings up the summary page for that menu, plus the menu items listed in the MENU LIST Pane on the left. Also placing the cursor over these buttons brings up a drop-down list of all the menu items for that menu that allow you to select one of them.
4	Menu List Pane	This is a list of links for each menu item from a selected menu from the MENU BAR. Clicking on one of these links brings up the control pane for that menu item and its controls.
5	Control Pane	This pane controls for the menu item selected from the menu bar. You can use these controls to configure and control blade modules, other equipment or services for your MicroBlade.
6	Help Display Box	This text display box contains help information for the page you have selected. To activate help, press the HELP button to toggle on or off the HELP DISPLAY box.

Main Menu Buttons

The buttons below in Table 1-3 cover the main functions of MicroBlade Web-based Management Utility. Clicking on an button will reveal a menu of related functions that you can select. Clicking on a button will bring up a summary page for that menu with all the menu items shown in the right pane of the page. These you click on to go their pages.

Table 1-3. Main Menu Buttons

Menu Buttons	Description
Blade System	These pages contains general information about the blade system.
System Health	These pages shows you data related to the server's health, such as sensor readings and the event log.
Configuration	Use these pages to configure various settings, such as alerts, users, or network etc.
Remote Control	These pages allows you to perform various remote operations on the server, such as launching the remote console.
Maintenance	Use these pages to maintain the IPMI device, such as update firmware or reset the IPMI device.
Help	This button toggles on or off the HELP DISPLAY box on the page.

Notes

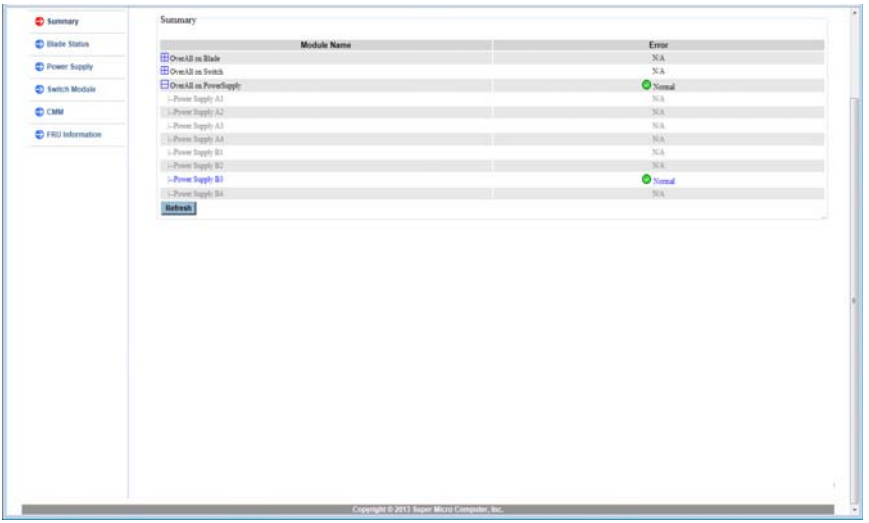
Chapter 2
Blade System

The BLADE SYSTEM menu allows you to access and configure the various blades in your system. Clicking the BLADE SYSTEM icon allows you to access the following pages through its sub-menus:

- Blade System Summary Page
- Blade Status Page
- Power Supply Page
- Switch Module Page
- CMM Page
- FRU Information

2-1 Blade System Summary Page

Figure 2-1. Blade System Summary Page



This page (Figure 2-1) displays a summary status of all blades and nodes, switch modules and power supplies. The CONTROL pane displays a column for each module's error status. Press the REFRESH button to refresh the view on this page.

2-2 Blade Status Page

The BLADE STATUS page allows you to check and set up the status of all the blade modules in the system and displays information in columns of a table including Blade, Name, Model, Power Status, Maximum Power, KVM, UID, Error, BMC IP, BMC Version, Power Fail Policy and AC Lost Policy

Function buttons at the top of the table include Power On/Off, Power Cycle, Power Reset, Graceful Shutdown, AC cycle, Power Fail Policy, AC Lost Policy and Refresh of the blade module. Selecting a blade module or node from the blade table, and then pushing a function button at the top of the table changes the status and functions of the blade module. There are also control buttons and drop-down list box controls within the table for changing status on a blade module as well.

The command functions on the page and in some of the columns allow you to perform various functions, as shown in Figure 2-2 and described in Table 2-1.

To perform a function, first click the box(es) next to the blade(s) or node(s) you wish to issue a command to and then click the command button on top of the table. You can also click on any of the individual nodes listed to bring up additional pages with details about that particular node's status, and the controls for setting them (see "Node Status Page" on page 2-4).

Figure 2-2. Blade Status Page

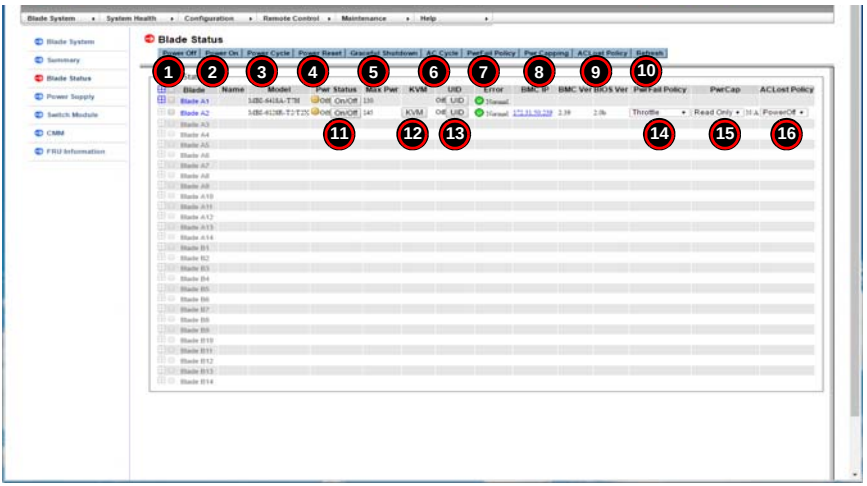


Table 2-1. Blade Status Page Controls

Item	Control Name	Description
1	Power Off Button	Checking the check box next to a node or blade module and then pressing this button will power off the selected node or blade system.
2	Power On Button	Checking the check box next to a node or blade module and then pressing this button will power on the selected node or blade system.
3	Power Cycle Button	Checking the check box next to a node or blade module and then pressing this button will initiate the power cycle for the selected node or blade system.
4	Power Reset Button	Checking the check box next to a node or blade module and then pressing this button will reset the selected node or blade system.
5	Graceful Shutdown Button	Checking the check box next to a node or blade module and then pressing this button will initiate a graceful shutdown for the selected node or blade system.
6	AC Cycle Button	Checking the check box next to a node or blade module and then pressing this button will initiate the AC cycle for the selected node or blade system.
7	Power Fail Policy Button	Checking the check box next to a node or blade module, and then selecting an option from the drop-down list box for the item and then pressing this button will set the selected power fail policy for the selected node or blade system.
8	Pwr Capping Button	Checking this button for a selected node or blade module sets power capping for that node or blade by bringing up a confirmation pop-up.
9	AC Lost Policy Button	Checking the button next to a node or blade module, and then selecting an option from the drop-down list box for the item and then pressing this button will set the selected AC lost policy for the selected node or blade system.
10	Refresh Button	Pressing this button will refresh the screen to accurately show the new status of all blade modules or nodes in the system.
11	Pwr Status On/Off	The button in this column allows you to power on or off a node or blade in the selected row.
12	KVM	Pressing the button in this column for a selected blade or node starts up a KVM window for viewing that blade or node.
13	UID	Pressing the button in this column for a selected blade lights up the UID for that blade.
14	Pwr Fail Policy	This column contains a pull-down menu for selecting the Power Fail Policy for the selected blade or node. Options include THROTTLE, POWEROFF or PERFORMANCE.
15	Pwr Cap	This column contains a pull-down menu for selecting the Power Cap for the selected blade or node. Options include READ ONLY, DISABLED, and percentage values from 50% to 90%.
16	AC Lost Policy	This column contains a pull-down menu for selecting the AC Lost Policy for the selected blade or node. Options include POWEROFF, POWERON and LASTSTATE.

Node Status Page

If you click on the link for a node in the BLADE STATUS page, a new window will appear with the first of several pages with additional controls for that specific node in your system. The following control panes can be selected for this window by clicking on links that are available at the top of the CONTROL pane in the new window:

- Node Status – Summary Pane
- Node Status – Sensor Reading Pane
- Node Status – Network Settings Pane
- Node Status – Event Log Pane
- Node Status – FRU Information Page
- Node Status – Date & Time Page

Node Status – Summary Pane

Clicking on the SUMMARY link brings up a SUMMARY pane (Figure 2-3) with controls that are listed and described in Table 2-2.

Figure 2-3. Blade Status Page – Summary Pane

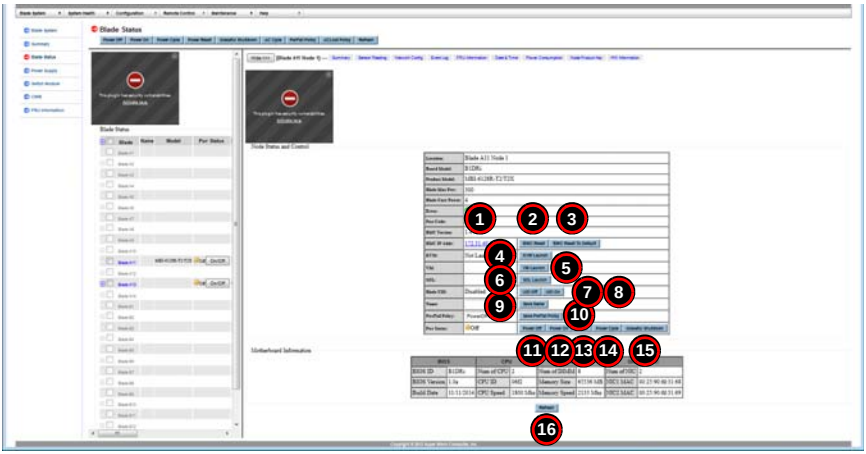


Table 2-2. Blade Status Page – Summary Pane Controls

Item	Name	Description
1	BMC IP Address Link	Pressing this link brings up the SYSTEM SUMMARY page (Figure 2-1) that displays information about the selected node or blade module, a REMOTE CONSOLE PREVIEW pane and the following controls for the pane and system: • REFRESH PREVIEW IMAGE • POWER DOWN/ON • RESET Clicking on the FRU Information link reveals static display FRU information about the selected blade module or node selected.
2	BMC Reset Button	Pressing this button resets the BMC.
3	BMC Reset To Default Button	Pressing this button resets the BMC settings to their default settings.
4	KVM Launch Button	Press this button to launch a KVM Remote window.
5	VM Launch Button	Press this button to launch a VIRTUAL MEDIA SETUP window.
6	SOL Launch Button	Press this button to launch a SOL REMOTE window.
7	UID Off Button	Use this button to turn off the UID LED for a selected node or blade module.
8	UID On Button	Use this button to light up the UID LED for a selected node or blade module.
9	Save Name Field and Button	Enter a name in the field provided and press the SAVE NAME button to apply the new name to the node or blade module.
10	Save Power Fail Policy Button and Drop-down List Box	This drop-down list box is used to set the Power Fail Policy and includes the following items you may set for this policy: • POWER OFF • THROTTLE • PERFORMANCE After selecting the Power Fail Policy from the drop-down list box, press the SAVE PWRFAIL POLICY button to apply it.
11	Power On Button	Pressing this button will power on the selected node or blade system.
12	Power Off Button	Pressing this button will power off the selected node or blade system.
13	Reset Button	Pressing this button will reset the selected node or blade system.
14	Power Cycle Button	Pressing this button will initiate the power cycle for the selected node or blade system.
15	Graceful Shutdown Button	Pressing this button will initiate a graceful shutdown for the selected node or blade system.
16	Refresh Button	Pressing this button refreshes the page display.

Node Status – Sensor Reading Pane

Clicking on the SENSOR READING link brings up a NODE SENSOR READING pane (Figure 2-4) with controls that are listed and described in Table 2-3.

Figure 2-4. Blade Status Page – Node Sensor Reading Pane

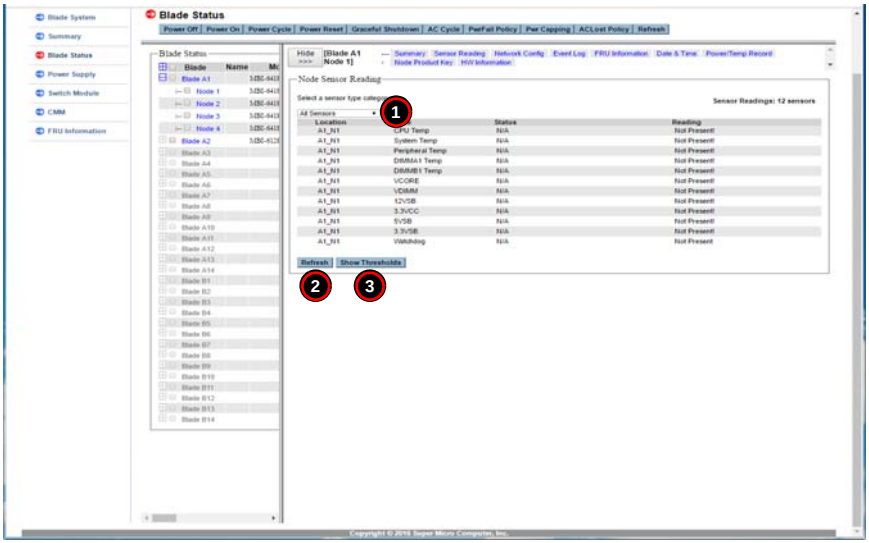


Table 2-3. Blade Status Page – Node Sensor Reading Pane Controls

Item	Name	Description
1	Select Sensors List Box	Use this list box to select the types of sensors you wish to view. Options include ALL SENSORS, TEMPERATURE SENSORS, VOLTAGE SENSORS or WATCHDOG 2.
2	Refresh Button	Press this button to refresh the page.
3	Show Thresholds Button	Pressing this button shows the thresholds for your system.

Node Status – Network Settings Pane

Clicking on the NETWORK CONFIG link brings up a Blade IPMI NETWORK pane (Figure 2-5) with controls that are listed and described in Table 2-4.

Figure 2-5. Blade Status Page – Blade IPMI Network Pane

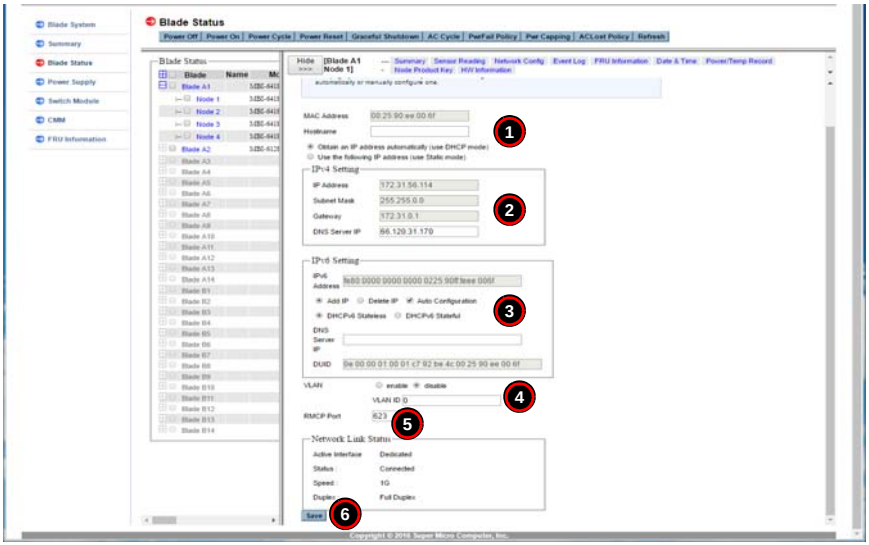


Table 2-4. Blade Status Page – Network Settings Pane Controls

Item	Name	Description
1	Hostname Field	Enter a host name in this field if desired.
2	IPv4 Settings	The IPv4 settings can be configured with these controls when you select the USE THE FOLLOWING IP ADDRESS (USE STATIC MODE) option button.
3	IPv6 Settings	The IPv6 settings can be configured using these controls.
4	VLAN Enable/Disable	These option buttons allow you to enable or disable VLAN.
5	RMCP Port Field	The port setting for RMCP can be entered in the field provided here.
6	Save Button	Pressing the SAVE button saves the configuration for the selected node or blade module.

Node Status – Event Log Pane

Clicking on the EVENT LOG link brings up a EVENT LOG pane (Figure 2-6) with controls that are listed and described in Table 2-5.

Figure 2-6. Blade Status Page – Event Log Pane

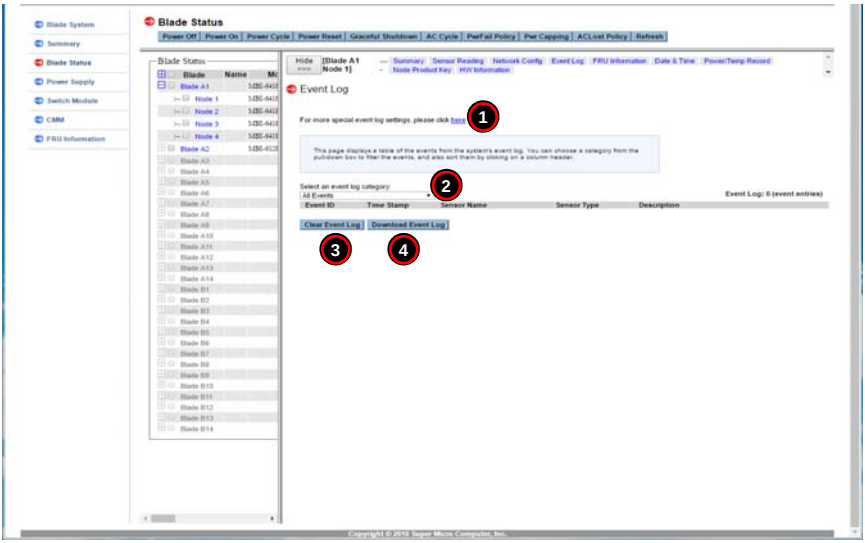


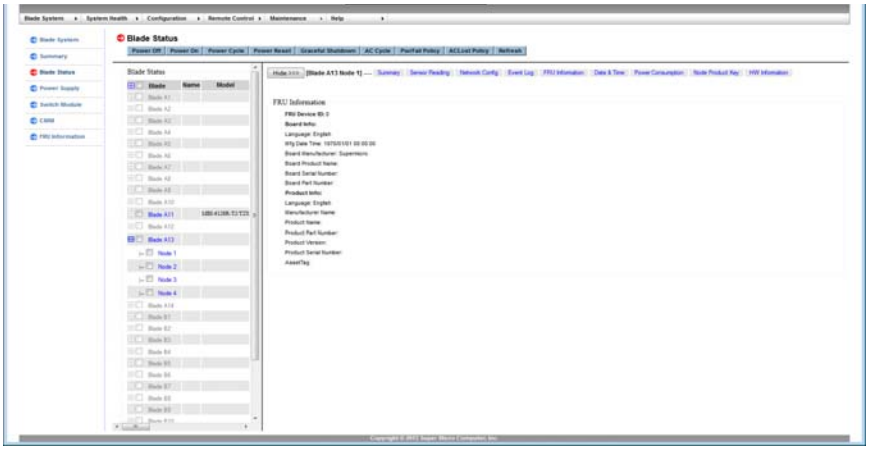
Table 2-5. Blade Status Page – Event Log Pane Controls

Item	Name	Description
1	Specific Event Logs Link	Clicking on this link brings up a new pane where you can specify specific events to log into the Event Log.
2	Select an Event Log Category Drop-down Link Box	This link box contains options for specifying the type of events to view in the pane. The following options are available: • All Events • BIOS Generated Events • System Management Software Events • Sensor Specific Events
3	Clear Event Log Button	Press this button to clear the event log of all entries.
4	Download Event Log Button	Press this button to download the event log.

Node Status – FRU Information Page

Clicking on the FRU INFORMATION link brings up a FRU INFORMATION pane (Figure 2-7) with static FRU Information about the node or blade module selected.

Figure 2-7. Blade Status Page – FRU Information Pane



Node Status – Date & Time Page

Clicking on the DATE & TIME link brings up a DATE & TIME pane (Figure 2-8) with controls that are listed and described in Table 2-6.

Figure 2-8. Blade Status Page – Date &Time Pane

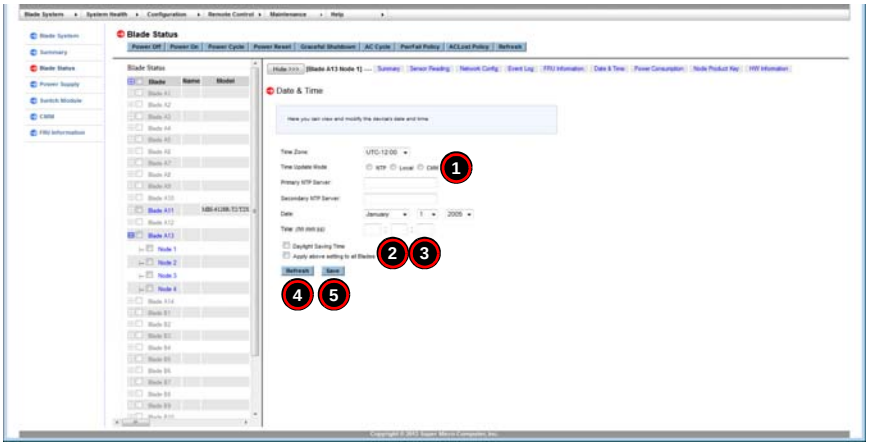


Table 2-6. Blade Status Page – Date & Time Pane Controls

Item	Name	Description
1	Time Update Mode Option Buttons	Using these option buttons, you may select either NTP, Local or CMM mode for time updates to the system. Each mode, when selected, activates or deactivates fields or drop-down list boxes for specifying date and time information or the primary or secondary NTP server.
2	Daylight Savings Time check box	Click this check box if you wish to use daylight savings time for your time settings.
3	Apply Above Settings to All Blades check box	Use this check box to apply all time and date settings to ALL blades and nodes in your system rather than just the selected blade or node.
4	Refresh Button	Press this button to refresh the page.
5	Save Button	Pressing the SAVE button saves the configuration for the selected node or blade module.

Node Status – Power/Temperature Record Page

Clicking on the POWER/TEMP RECORD link brings up a POWER/TEMPERATURE RECORD pane (Figure 2-9) with controls that are listed and described in Table 2-7. This pane contains tables for power and temperature information as well as graphs for Last Hour, Last Day, Last Week displaying this information below the tables (not shown).

Figure 2-9. Blade Status Page – Power/Temperature Record Pane

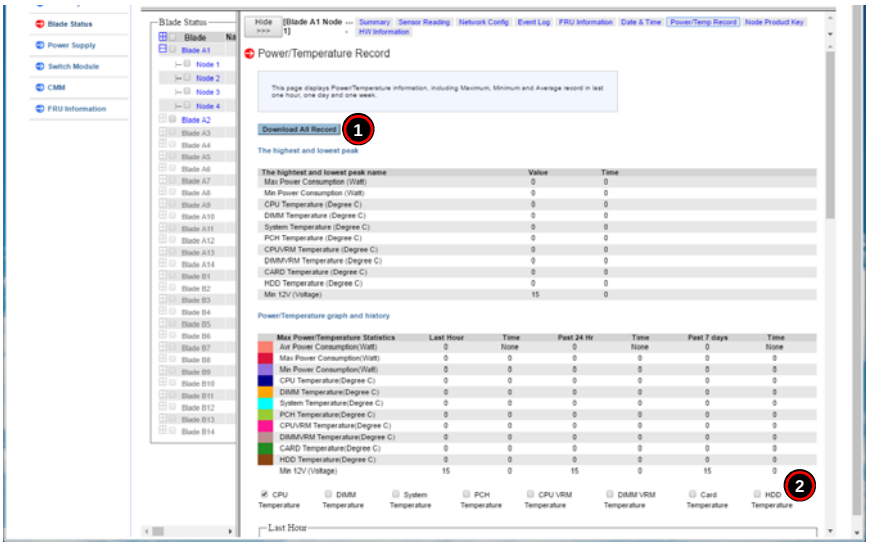


Table 2-7. Blade Status Page – Power/Temperature Record Pane Controls

Item	Name	Description
1	Download All Record Button	Pressing this button brings up window you can use to download all power and temperature information to a file on your system.
2	Temperature Check Boxes	Clicking these check boxes displays the selected temperature information in the graphs below.

Node Status – Node Product Key Page

Clicking on the NODE PRODUCT KEY link brings up a NODE PRODUCT KEY pane (Figure 2-10) with controls that are listed and described in Table 2-8.

Figure 2-10. Blade Status Page – Node Product Key Pane

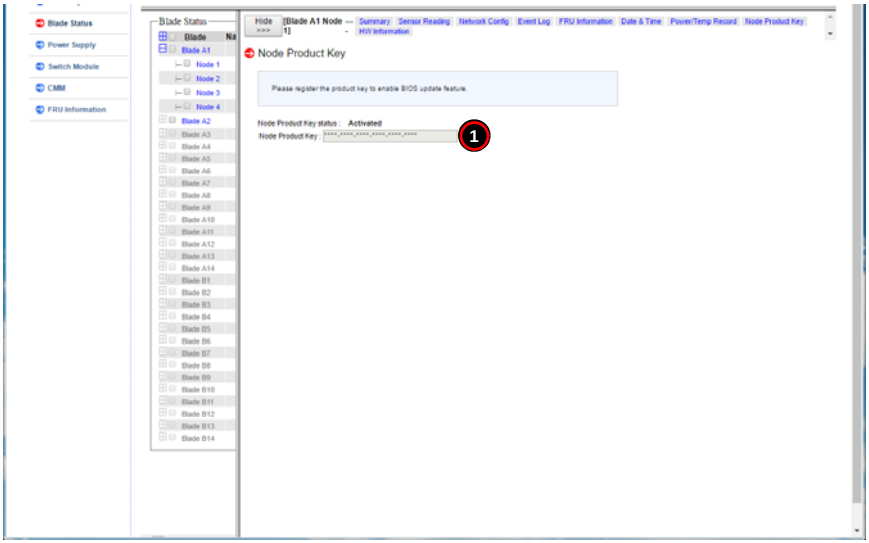


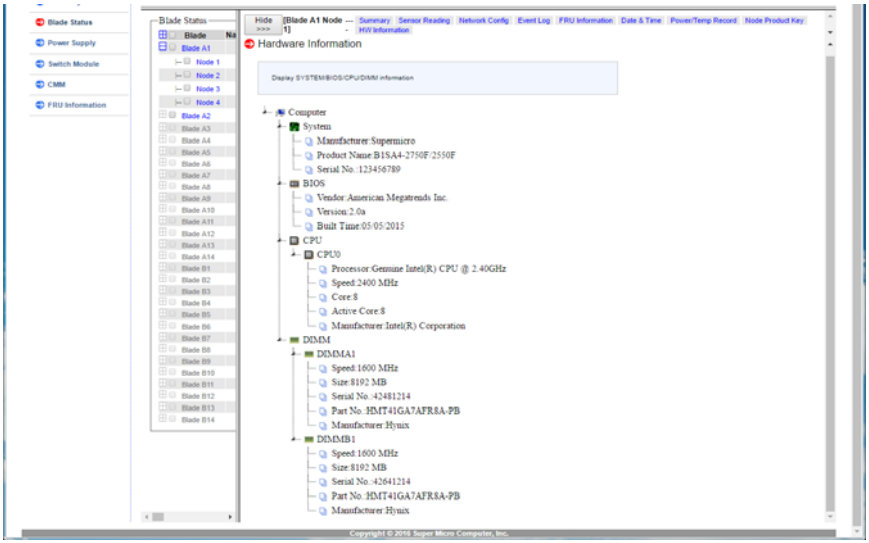
Table 2-8. Blade Status Page – Node Product Key Pane Controls

Item	Name	Description
1	Node Product Key Field	Enter the Node Product Key here in order to enable the BIOS update feature.

Node Status – Hardware Information Page

Clicking on the HW INFORMATION link brings up a HARDWARE INFORMATION pane (Figure 2-11) with hardware information displayed.

Figure 2-11. Blade Status Page – Hardware Information Pane



2-3 Power Supply Page

Click a POWER SUPPLY to reveal the POWER SUPPLY STATUS page (Figure 2-12). You can use the commands listed in Table 2-9 to control the power supplies in your system.

To perform a function, first click the box(es) next to the power supplies you wish to issue a command to and then click the command icon you wish to use. You can also click on any of the individual power supplies listed to bring up additional pages with details about that particular power supply's status, and the controls for setting them (see "Power Supply Status Page" on page 2-15).

Figure 2-12. Power Supply Status Page – Summary Pane

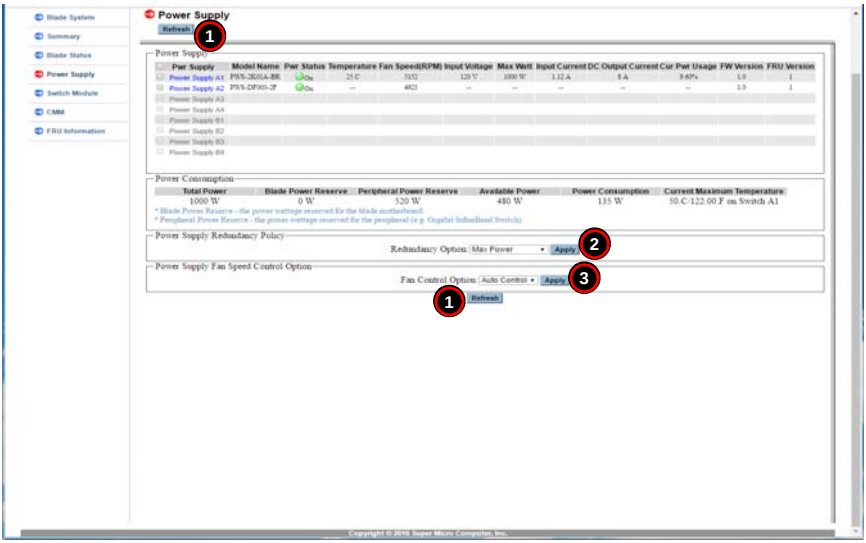


Table 2-9. Power Supply Status Page – Summary Pane Controls

Item	Name	Description
1	Refresh Buttons	Pressing either of these buttons refreshes the page display.
2	Redundancy Controls	These controls allow you to select the Redundancy Option for your system. Select either the Max Power, Redundancy N+1 or Redunancy N+N option from the pull-down menu and press the Apply button to apply your redundancy option to the system.
3	Fan Control Option Controls	These controls allow you to select the Fan Control Option for your system. Select either the User Control or Auto Control option from the pull-down menu and press the Apply button to apply your fan control option to the system.

Power Supply Status Page

If you click on the link for a power supply in the POWER SUPPLY page, a new window will appear with the first of two pages with additional controls for that specific power supply in your system. The following CONTROL panes can be selected for this window by clicking on links that are available at the top of the CONTROL pane in the new window:

- Power Supply Status– Summary Pane
- Power Supply Status – FRU Information Page

Power Supply Status– Summary Pane

Clicking on the SUMMARY link brings up a POWER SUPPLY SUMMARY pane (Figure 2-13) with controls that are listed and described in Table 2-10.

Figure 2-13. Power Supply Status Page – Summary Pane

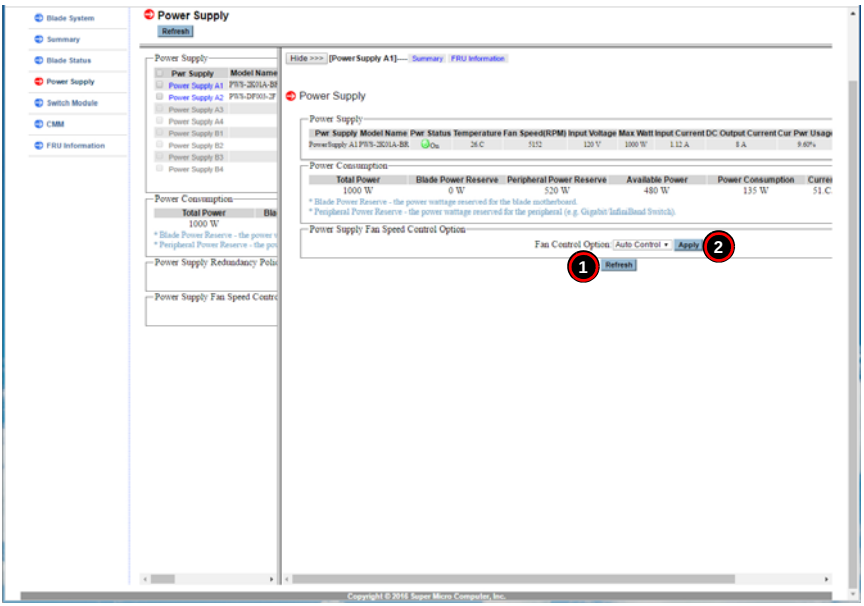


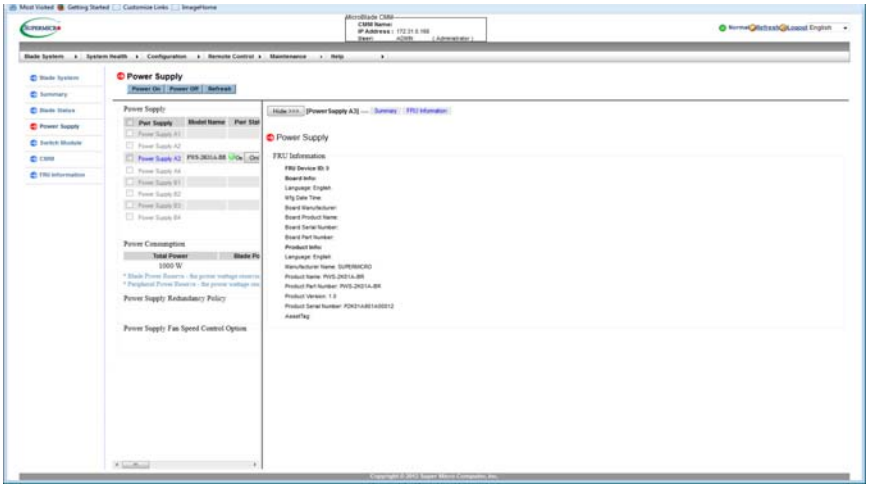
Table 2-10. Power Supply Status Page – Summary Pane Controls

Item	Name	Description
1	Refresh Button	Pressing this button refreshes the page display.
2	Fan Control Option Controls	These controls allow you to select the Fan Control Option for your system. Select either the User Control or Auto Control option from the pull-down menu and press the Apply button to apply your fan control option to the system.

Power Supply Status – FRU Information Page

Clicking on the FRU INFORMATION link brings up a FRU INFORMATION pane (Figure 2-14) with static FRU information about the Power Supply module selected.

Figure 2-14. Power Supply Status Page – FRU Information Pane



2-4 Switch Module Page

Click on SWITCH MODULE to reveal the SWITCH MODULE STATUS page (Figure 2-15). You can use the commands listed in Table 2-11 to control the power supplies in your system.

To perform a function, first click the box(es) next to the power supplies you wish to issue a command to and then click the command icon you wish to use. You can also click on any of the individual power supplies listed to bring up additional pages with details about that particular power supply's status, and the controls for setting them (see "Switch Module Status Page" on page 2-18).

Figure 2-15. Switch Module Page

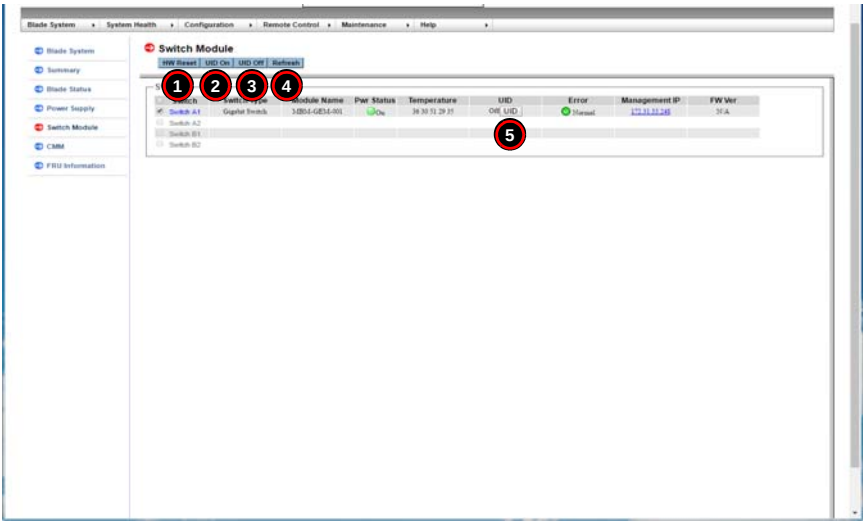


Table 2-11. Switch Module Page Controls

Item	Name	Description
1	HW Reset Button	Press this button to reset a selected switch to its default configuration. The reset button will reset all switch configurations, including IP address and so on.
2	UID On Button	Press this button to turn on a UID for a selected switch.
3	UID Off Button	Press this button to turn off a UID for a selected switch.
4	Refresh Button	Click this icon to refresh the page and update the status of a switch shown.
5	UID Button	Press this button in the UID column to turn on or off a UID for a selected switch.

NOTE: Initially, you must manually enter the IP address for each switch to gain access to it. Each IP address should be unique when there are multiple switches on the same network segment.

Switch Module Status Page

If you click on the link for a switch module in the SWITCH MODULE page, a new window will appear with the first of two pages with additional controls for that specific power supply in your system. The following CONTROL panes can be selected for this window by clicking on links that are available at the top of the CONTROL pane in the new window:

- Switch Module Status– Summary Pane
- Switch Module Status – FRU Information Page

Switch Module Status– Summary Pane

Clicking on the SUMMARY link brings up a SWITCH MODULE SUMMARY pane (Figure 2-16) with controls that are listed and described in Table 2-12.

Figure 2-16. Switch Module Page – Summary Pane

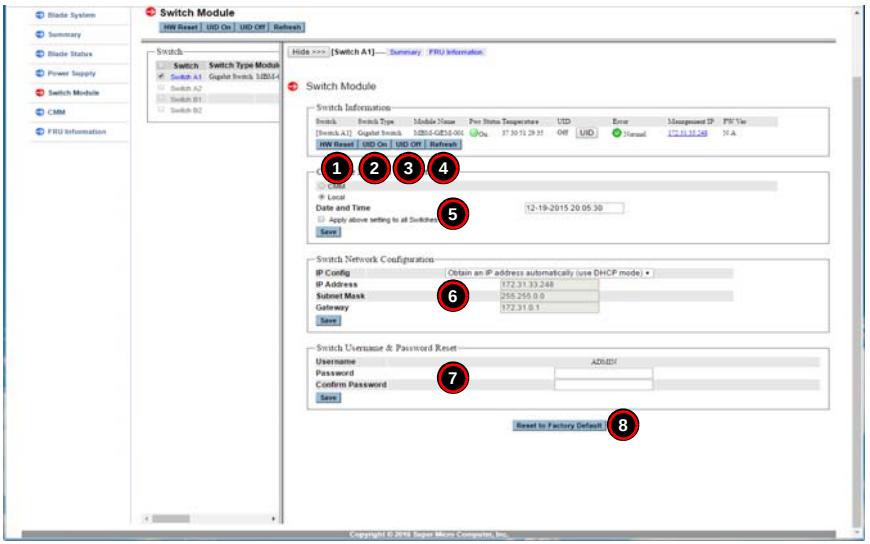


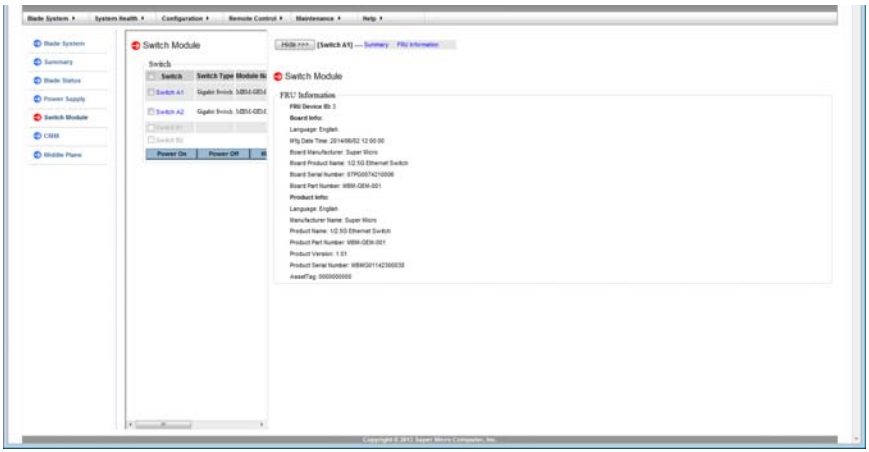
Table 2-12. Switch Module Page – Summary Pane Controls

Item	Name	Description
1	HW Reset Button	Press this button to reset a selected switch to its default configuration. The reset button will reset all switch configurations, including IP address and so on.
2	UID On Button	Press this button to turn on a UID for a selected switch.
3	UID Off Button	Press this button to turn off a UID for a selected switch.
4	Refresh Button	Pressing this button refreshes the page display.
5	Configure Date and Time Settings Section	Use this section to configure the date and time settings for your selected switch. Enter the time and date settings in the field provided and then press the SAVE button.
6	Switch Network Configuration Section	Use this section to configure the selected switches IP addresses (IP, Subnet Mask and Gateway addresses). You may either do this manually using static mode or do it automatically by using DCHP mode according to the selection you make in the drop down list box provided. When finished press the SAVE button.
7	Switch Username and Password Reset Section	Use this section to enter the ADMIN password for the switch and confirm it by entering the password in the fields provided. When finished press the SAVE button.
8	Reset to Factory Default	Press this button to reset the switch back to its factory default settings.

Switch Module Status – FRU Information Page

Clicking on the FRU INFORMATION link brings up a FRU INFORMATION pane (Figure 2-17) with static FRU information about the switch module selected.

Figure 2-17. Switch Module Page – FRU Information Pane



2-5 CMM Page

Click on CMM to reveal the CMM STATUS SUMMARY page (Figure 2-18). The CMM option in the BLADE SYSTEM submenu allows you to check the status the CMM module in the system you are accessing. Operating status, temperature, firmware information and IP address information are all shown in this summary page. Additionally, you can view CMM FRU information on the CMM STATUS FRU INFORMATION page (Figure 2-19).

The commands you may give on this page, as described below in Table 2-13.

Figure 2-18. CMM Status Summary Page

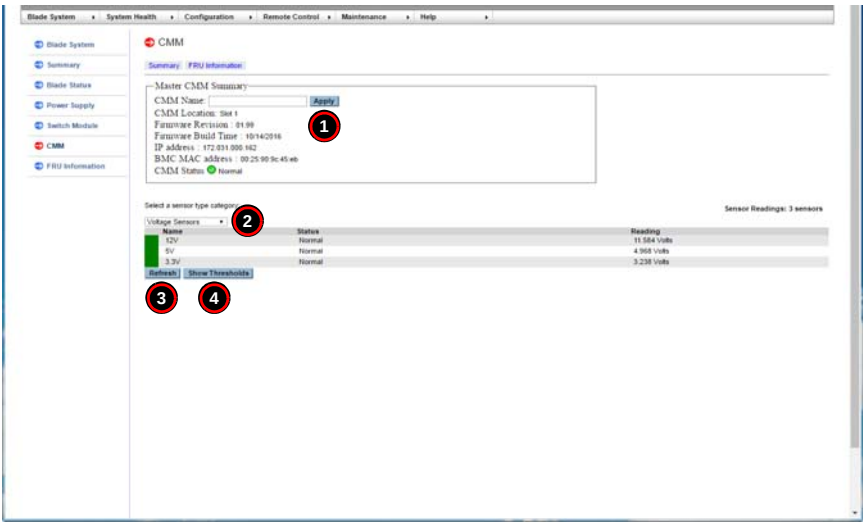


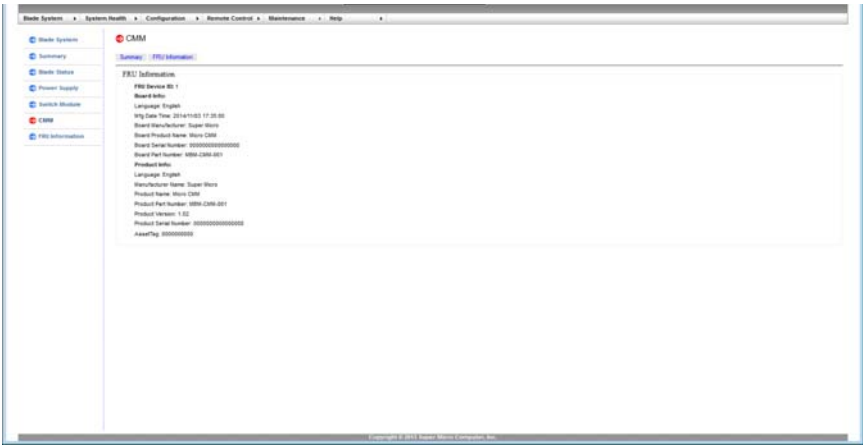
Table 2-13. CMM Status – Summary Page Controls

Item	Name	Description
1	CMM Name Field	Select a name for Master CMM in this field and press the Apply button to apply the name to it.
2	Sensor Type Category Drop-down List Box	Use this list to select the type of sensors you wish to view. Options include All Sensors, Temperature Sensors or Voltage Sensors.
3	Refresh Button	Press this button to refresh the page.
4	Show Thresholds Button	Pressing this button shows the thresholds for your system.

NOTE: By default, when the enclosure power turns, the CMM on slot 1 will be the master and the CMM on slot 2 will be the slave. When the master CMM becomes "failed", the slave CMM will take over. When the failed CMM on slot 1 is replaced, the master CMM will not swap back to slot 1. You may wait until the CMM on slot 2 is "failed" or power cycle whole the enclosure to return to slot 1 resuming to be the master CMM.

NOTE: The “Failover” feature for two CMMs as “master” and “slave”, with the CMM redundant feature, is not supported on either the MBE-628L-816 or MBE-628L-416 enclosures.

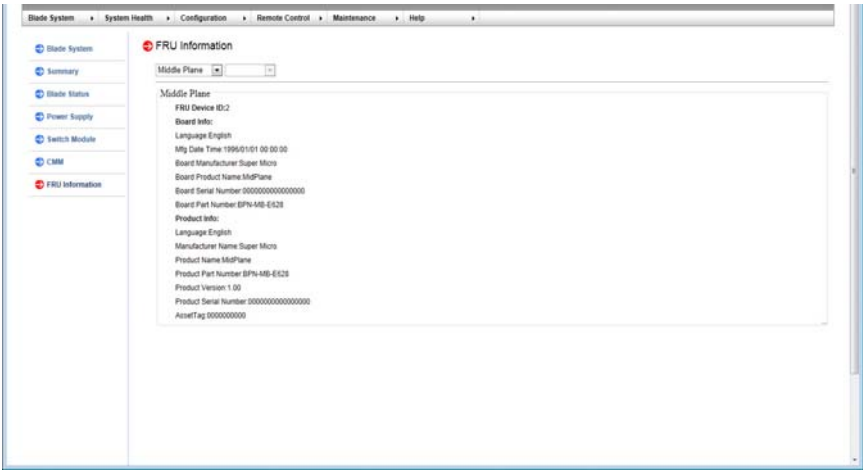
Figure 2-19. CMM Status – FRU Information Page



2-6 FRU Information

Clicking on the FRU INFORMATION link brings up the FRU INFORMATION page (Figure 2-20) with static FRU information. Use the drop-down list box on the page to select the type of information you wish to view.

Figure 2-20. Blade System – Middle Plane FRU Information Page



Chapter 3
System Health

The SYSTEM HEALTH menu allows you to access and configure logs and alert settings in your system. Clicking the SYSTEM HEALTH icon allows you to access the following pages through its sub-menus:

- Sensor Readings Page
- System Event Log Page
- Power/Temperature Record Page

3-1 Sensor Readings Page

The SENSOR READING page (Figure 3-1) displays system sensor information, including readings and status. You can toggle viewing the thresholds for the sensors by pressing the SHOW THRESHOLDS button below.

Figure 3-1. Sensor Readings Page

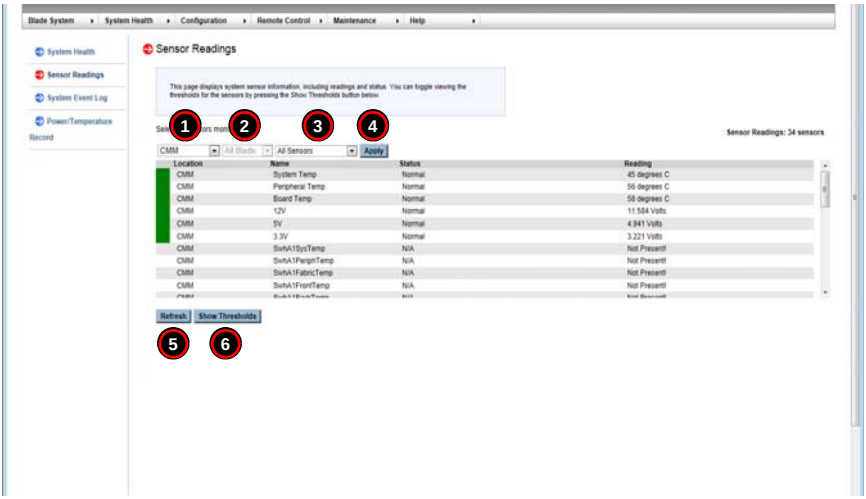


Table 3-1. Sensor Readings Page Controls

Item	Name	Description
1	Module Selection Drop-down List Box	Select from here the module type whose sensors you wish to view. Options include: CMM, Blade, Switch or Power Supply.
2	Module Number Selection Drop-down List Box	Select the specific module of the type you selected in the MODULE SELECTION list whose sensors you wish to view.
3	Sensor Selection Drop-down List Box	Select in this drop-down list box the type of sensor you wish to view from the previous selected module. Options include All Sensors, Temperature Sensors or Voltage Sensors, When you have made all your selections, press the APPLY button to view the sensors.
4	Refresh Button	Press this button to refresh the page.
5	Show Thresholds Button	Pressing this button shows the thresholds for your system.

3-2 System Event Log Page

The SYSTEM EVENT LOG option in the SYSTEM HEALTH submenu allows you to view and clear the contents of the system event log for a remote system. The SYSTEM EVENT LOG page that appears (Figure 3-2) and its controls (Table 3-2) are shown below.

Figure 3-2. System Event Log Page

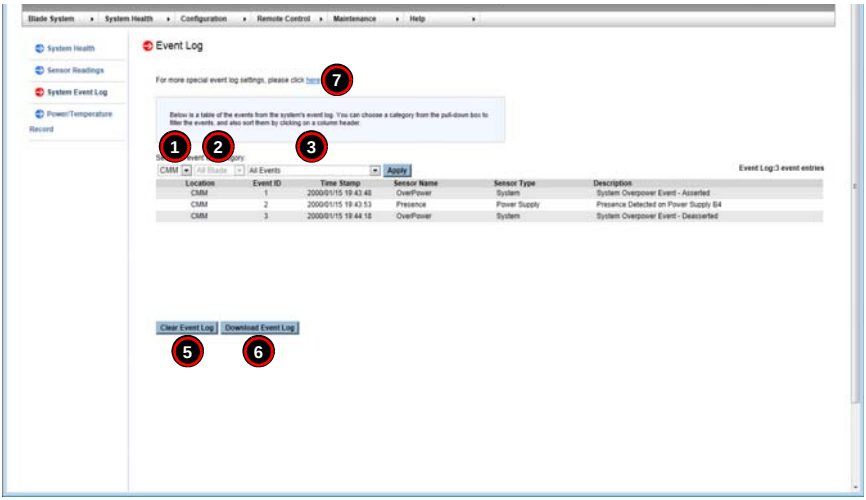
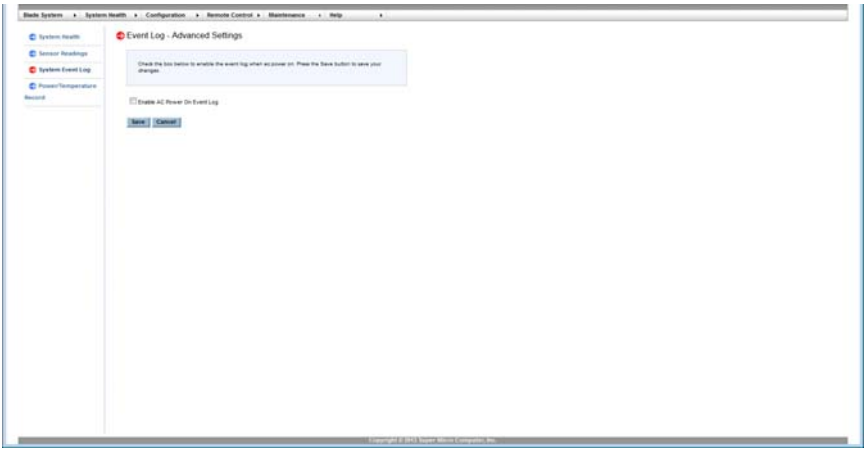


Table 3-2. System Event Log Page Controls

Item	Name	Description
1	Module Selection Drop-down List Box	Select from here the module type whose event you wish to view. Options include: CMM or Blade.
2	Module Number Selection Drop-down List Box	Select the specific module of the type you selected in the MODULE SELECTION list whose event you wish to view.
3	Event Type Selection Drop-down List Box	Select the specific event type whose event you wish to view. Options include All Events, Sensor Specific Events, BIOS Specific Events or System Management Software Events.
4	Apply Button	When you have selected your options from all the above drop-down list boxes, press the APPLY button to apply your changes.
5	Clear Event Log Button	Press this button to clear the event log of all entries.
6	Download Event Log Button	Press this button to download the event log.
7	Event Log Advanced Settings Link	Press this link to go the Event Log Advanced Settings page (Figure 3-3). This page has a check box to ENABLE THE AC POWER EVENT LOG and buttons to SAVE or CANCEL this configuration.

Figure 3-3. Event Log – Advanced Settings Page



3-3 Power/Temperature Record Page

The POWER/TEMPERATURE RECORD option in the SYSTEM HEALTH submenu allows you to view and download power and temperature records of the system. The POWER/TEMPERATURE RECORD page that appears (Figure 3-2) and its controls (Table 3-2) are shown below.

Figure 3-4. System Event Log Page

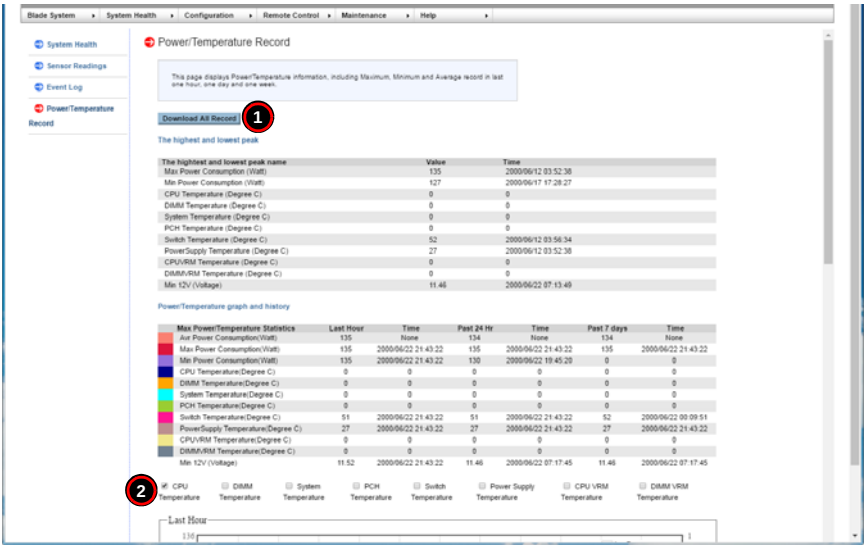


Table 3-3. System Event Log Page Controls

Item	Name	Description
1	Download All Record Button	Press this button to download records for all the check boxes above you have selected.
2	Record Selection Check Boxes	Check the boxes here in order to select the records you wish to download and display on this page. You may select one or all for viewing.

Notes

Chapter 4
Configuration

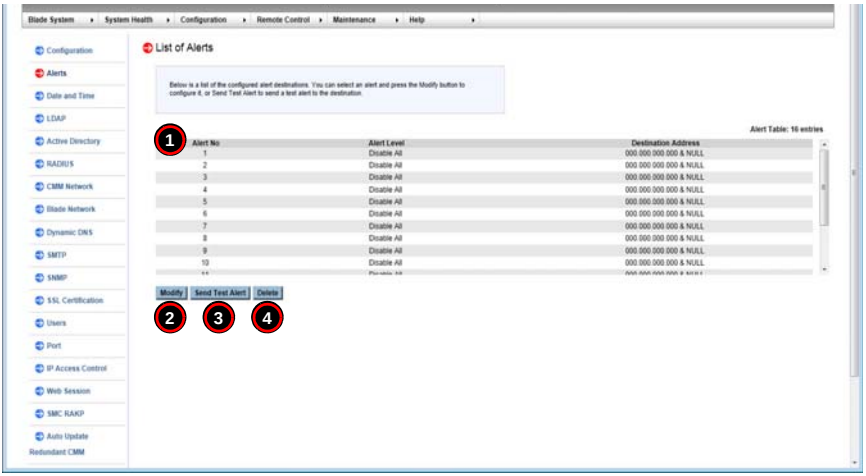
The USER MANAGEMENT menu allows you to configure users for your system. Clicking the USER MANAGEMENT icon allows you to access the following pages through its sub-menus:

- Alerts Page
- Date and Time Page
- LDAP Page
- Active Directory Page
- RADIUS Page
- CMM Network Page
- Blade IPMI Network Page
- Dynamic DNS Page
- SMTP Page
- SNMP Page
- SSL Certification Page
- Users Page
- Port Page
- IP Access Control Page
- Web Session Page
- SMC RAKP Page
- Auto Update Redundant CMM Page

4-1 Alerts Page

Click on ALERTS to reveal the ALERTS page (Figure 4-1). Use this page to set up alerts for your system. The commands you may give on this page, are described below in Table 4-1.

Figure 4-1. Blade Status Page



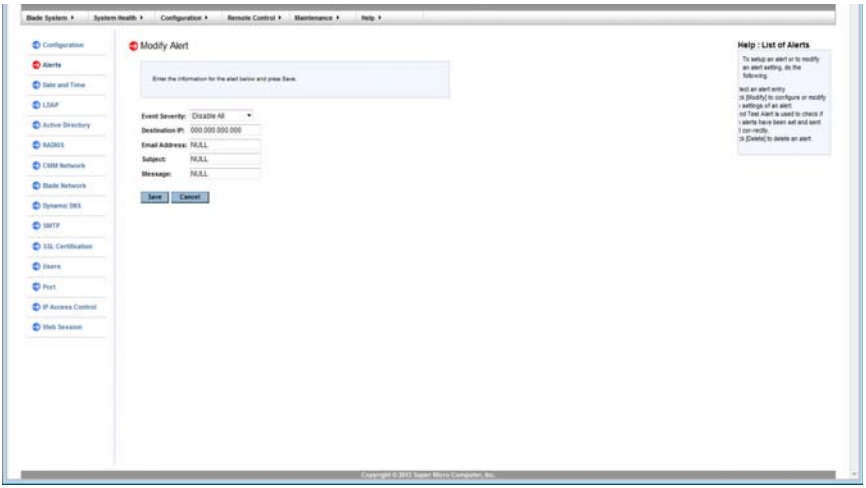
To setup an alert or to modify an alert setting, do the following.

1. Select an alert entry from the list presented on the page.
2. Click MODIFY to configure or modify the settings of an alert.
3. Click SEND TEST ALERT to check if the alerts have been set and sent out correctly.
4. Click DELETE if you need to delete an alert.

Table 4-1. Blade Status Page Controls

Item	Control Name	Description
1	Alert List	This table shows the currently active alerts, their number, their alert level and their destination address. Select from this list in order to modify an alert.
2	Modify Button	Press this button after selecting an alert from the table brings up the MODIFY ALERT page (Figure 4-2), which you use to modify an alert. In this new page select the Event Severity, Destination IP, Email Address, Subject and Message from the drop-down lists provided and press the SAVE button. If yo wish to cancel the alert, press the CANCEL button.
3	Send Test Alert Button	Press this button to send a test alert to its specified destination after you have modified the alert.
4	Delete Button	Press this button to delete an alert from the list.

Figure 4-2. Modify Alert Page



4-2 Date and Time Page

Click on DATE & TIME to reveal the DATE & TIME page (Figure 4-3). Use this page to set up date and time information for your system. The commands you may give on this page, are described below in Table 4-2.

Figure 4-3. Date and Time Page

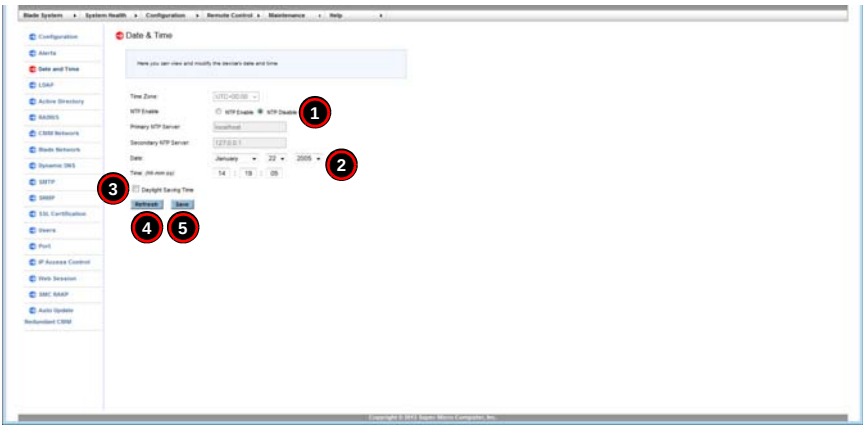


Table 4-2. Date and Time Page Controls

Item	Control Name	Description
1	Time Update Mode Option Buttons	Using these option buttons, you may select either NTP Enable or NPT Disable mode for time updates to the system. Each mode, when selected, activates or deactivates fields or drop-down list boxes for specifying date and time information or the primary or secondary NTP server.
2	Time Specification Drop-down List Box	Use these drop-down list boxes to specify the date and time information. These controls change depending upon which options you choose in the NTP or NPT option buttons.
3	Daylight Savings Time Check Box	Click this check box if you wish to use daylight savings time for your time settings.
4	Refresh Button	Press this button to refresh the page.
5	Save Button	Pressing the SAVE button saves the configuration for the selected node or blade module.

4-3 LDAP Page

Click on LDAP to reveal the LDAP page (Figure 4-4). This page allows you to configure the Light-Weight Directory Access Protocol (LDAP) settings. Check the box below to enable LDAP authentication and enter the required information to access the LDAP server. Press the Save button to save your changes. The commands you may give on this page, are described below in Table 4-3.

Figure 4-4. LDAP Page

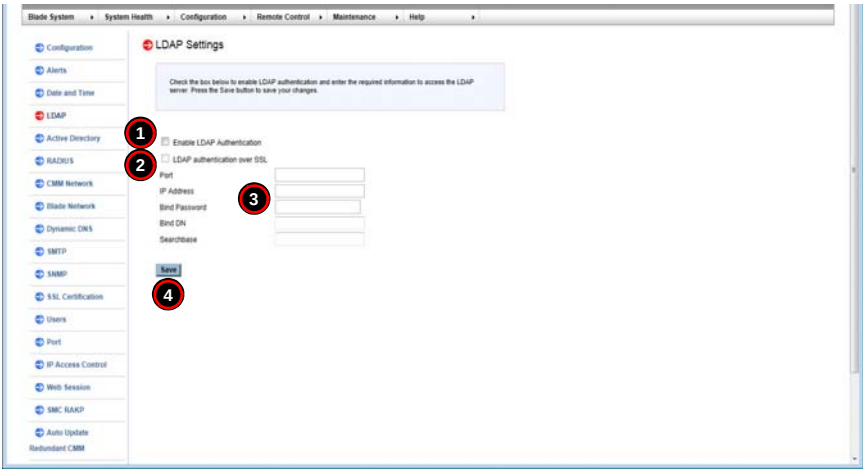


Table 4-3. LDAP Page Controls

Item	Control Name	Description
1	Enable LDAP Authentication	Use this check box to enable the controls below to configure LDAP for your system.
2	LDAP Authentication over SSL	Check this box to allow LDAP Authentication over SSL in your system.
3	Configuration fields	Enter Port, IP Address, Bind Password, Bind DN and Searchbase in the fields in this section to configure LDAP for your system.
4	Save Button	Once you are done configuring LDAP, press this button to save this information to your system.

4-4 Active Directory Page

Click on ACTIVE DIRECTORY to reveal the ACTIVE DIRECTORY page (Figure 4-5). This page displays a list of role groups and their Group IDs, Group Names, Domains and Network Privilege settings. If you would like to delete or modify a role group, select the name in the list and press DELETE ROLE GROUP or MODIFY ROLE GROUP. To add a new role group, select an unconfigured slot from the table and press ADD ROLE GROUP. The commands you may give on this page, are described below in Table 4-4.

Figure 4-5. Active Directory Page

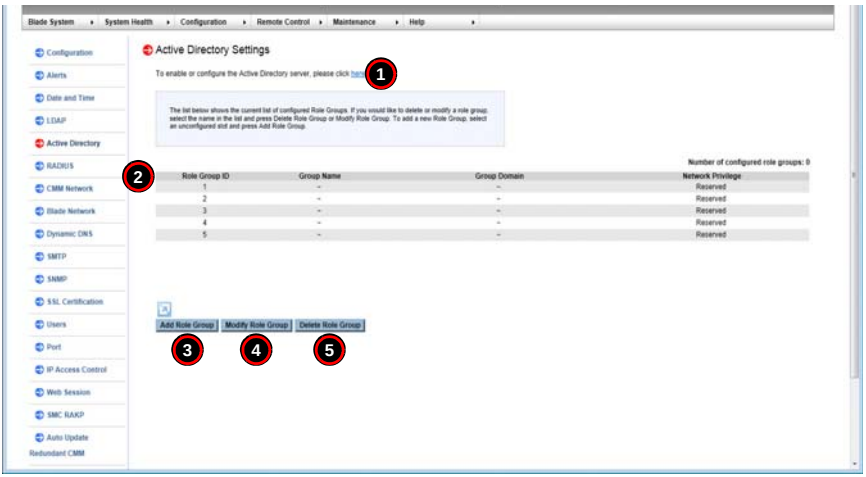


Table 4-4. Active Directory Page Controls

Item	Control Name	Description
1	Active Directory Server Link	Click on this link to go to the Active Directory - Advanced Settings page (Figure 4-8).
2	Role Group List	Select a role group from this list to modify or delete a role group. Press the ADD ROLE GROUP button to add a role group or select a role group and press the MODIFY ROLE GROUP button to modify one of them in the list.
3	Add Role Group Button	Press this button to add a role group to the list of role groups in the table above. This will bring up the ADD ROLE GROUP page (Figure 4-6) where you can enter information and save it as a new role group in the ROLE GROUP list.
4	Modify Role Group Button	After selecting a role group from the list above, press this button to modify a role group. Pressing this button brings up the MODIFY ROLE GROUP page (Figure 4-7) where you can modify information in the group and save it in the ROLE GROUP list.
5	Delete Role Group Button	If you wish to delete a role group, select it from the list and press this button.

Figure 4-6. Add Role Group Page

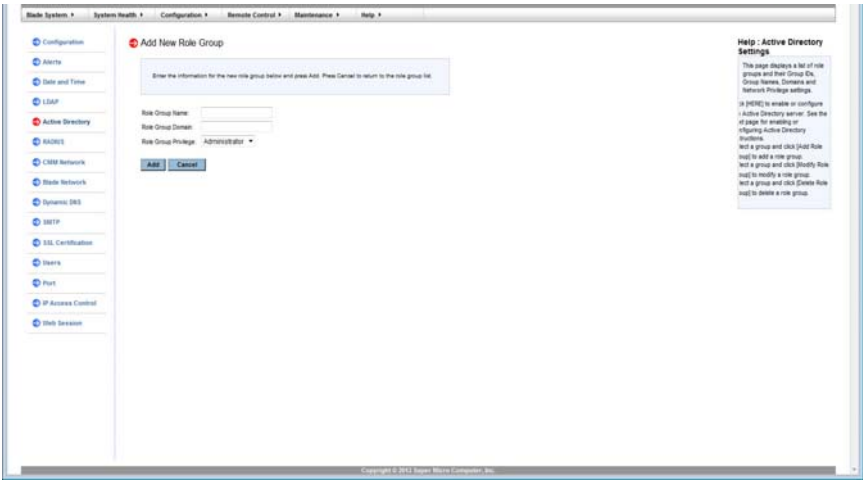
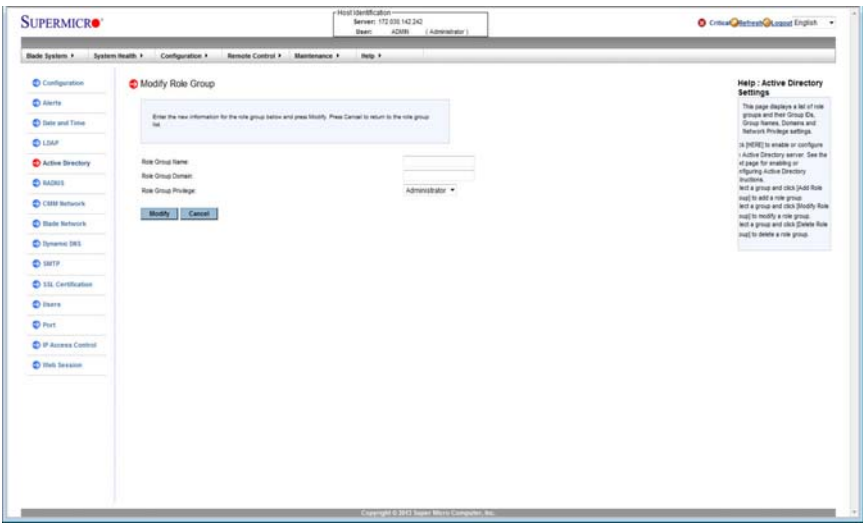
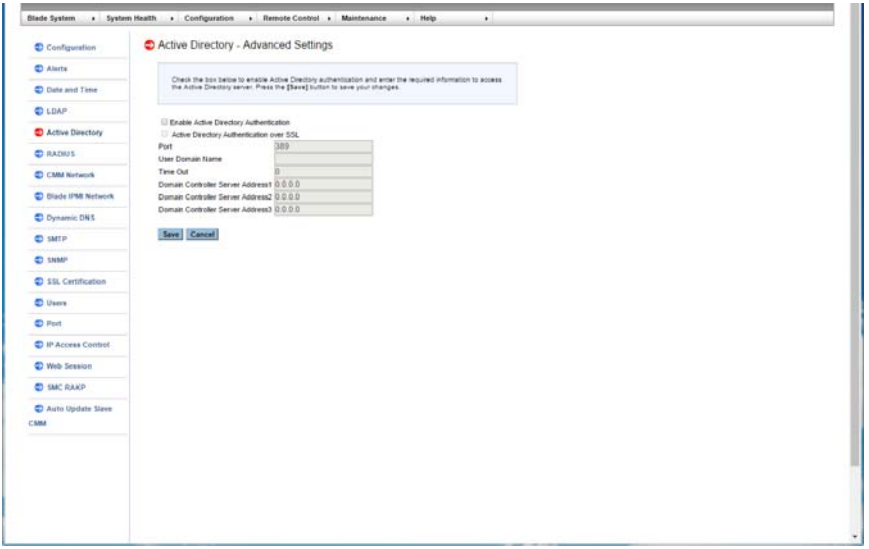


Figure 4-7. Modify Role Group Page



Active Directory - Advanced Settings Page

Figure 4-8. Active Directory - Advanced Settings Page



Click on ACTIVE DIRECTORY SERVER link to reveal the ACTIVE DIRECTORY - ADVANCED SETTINGS page (Figure 4-8). This page displays two check boxes that allow you to ENABLE ACTIVE DIRECTORY AUTHENTICATION and ACTIVE DIRECTORY AUTHENTICATION OVER SSL. When checked, the table below opens allowing you to specify PORT, USER DOMAIN NAME, TIME OUT and DOMAIN CONTROLLER SERVER ADDRESSES. Pressing the SAVE Button allows you to save this configuration, while pressing CANCEL cancels the configuration.

4-5 RADIUS Page

Click on RADIUS to reveal the RADIUS page (Figure 4-9). You can use this page to enable RADIUS and enter the required information to access the RADIUS server. The commands you may give on this page, are described below in Table 4-5.

Figure 4-9. RADIUS Page

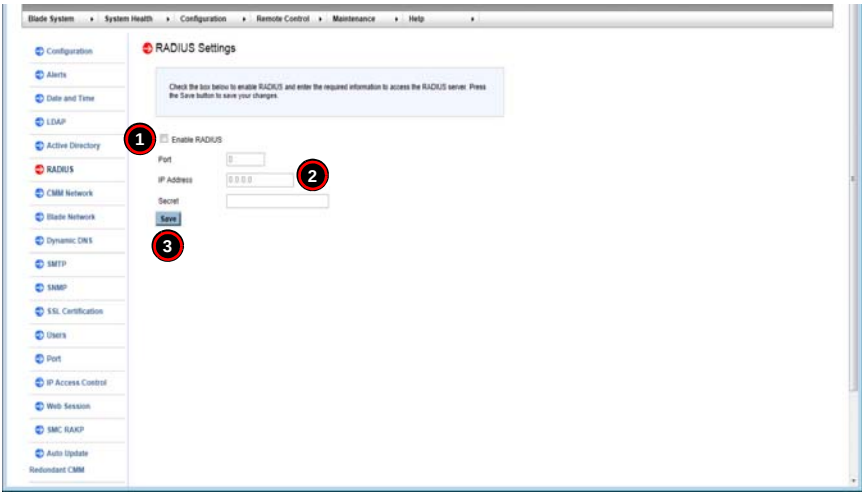


Table 4-5. RADIUS Page Controls

Item	Control Name	Description
1	Enable RADIUS Check Box	Check this box to enable RADIUS.
2	RADIUS Information Fields	Fill out these fields to configure RADIUS.
3	Save Button	Once you are done configuring RADIUS, press this button to save.

4-6 CMM Network Page

Click on CMM NETWORK to reveal the CMM NETWORK page (Figure 4-10). You can view and modify the network settings on this page and select whether to obtain an IP address automatically or manually configure one. The commands you may give on this page, are described below in Table 4-6.

Figure 4-10. CMM NetworkPage

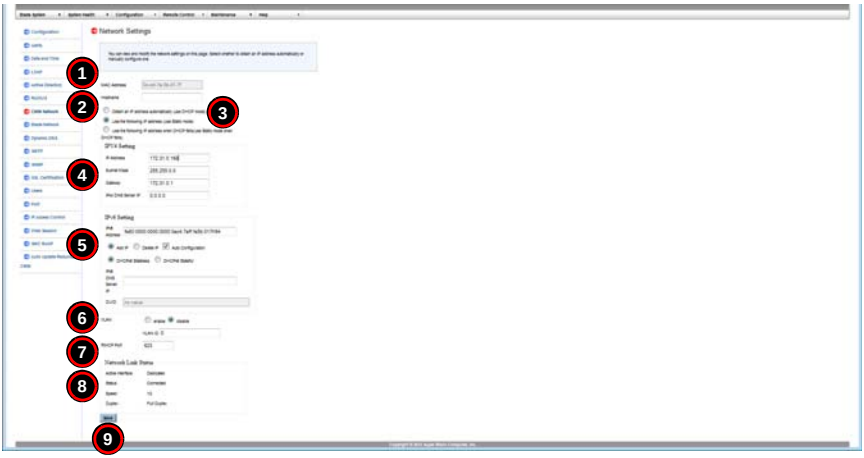


Table 4-6. CMM Network Page Controls

Item	Control Name	Description
1	MAC Address	When you specify the IP Address manually, use this field to specify your MAC Address. If you have chosen to have your IP address automatically determined, then this control is greyed-out and cannot be modified.
2	Hostname	Use this field to specify your Hostname.
3	Automatic or Manual IP Address Controls	Use these two option buttons to either OBTAIN AN IP ADDRESS AUTOMATICALLY (USING DHCP MODE) or USE THE FOLLOWING IP ADDRESSES (USE STATIC MODE) to either automatically or manually specify an IP address for the network.
4	IPv4 Setting Controls	Use these controls specify your IP ADDRESS, SUBNET MASK, GATEWAY address and DNS SERVER IP. If you have chosen to have your IP address automatically determined, then these fields are greyed-out and cannot be modified except for DNS SERVER IP address.
5	IPv6 Setting Controls	Use these controls to do the following: set IPv6 ADDRESS, ADD IP, DELETE IP, use AUTO CONFIGURATION, select either DHCPv6 STATELESS or DHCPv6 STATEFUL modes, specify your DNS SERVER IP or specify your DUID.
6	VLAN Controls	Use these controls to ENABLE or DISABLE VLAN or specify the VLAN ID.
7	RMCP Port	Use this field to specify your RMCP port number.
8	Network Link Status	This section shows your network link status for Active Interface, Status, Speed and Duplex.
9	Save Button	Once you are done configuring your network settings, press this button to save your configurations.

4-7 Blade IPMI Network Page

Click on BLADE IPMI NETWORK to reveal the BLADE IPMI NETWORK page (Figure 4-11). This page allows you to modify all blade and their networks by one click on this page. If you use Static mode, the base IP address will set to the first Node of a blade's A1 and increase base IP address in the order for the following nodes. The commands you may give on this page, are described below in Table 4-7.

Figure 4-11. Blade IPMI Network Page

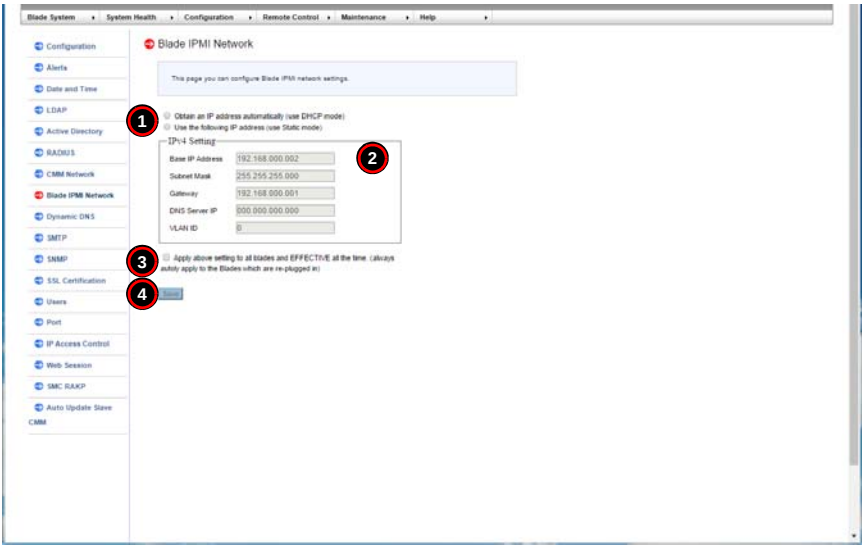


Table 4-7. Blade IPMI Network Page Controls

Item	Control Name	Description
1	Automatic or Manual IP Address Controls	Use these two option buttons to either OBTAIN AN IP ADDRESS AUTOMATICALLY (USING DHCP MODE) or USE THE FOLLOWING IP ADDRESSES (USE STATIC MODE) to either automatically or manually specify an IP address for the network.
2	IPv4 Setting Controls	Use these controls specify your BASE IP ADDRESS, SUBNET MASK and GATEWAY address. If you have chosen to have your IP address automatically determined, then these fields are greyed-out and cannot be modified.
3	Apply Above Settings to All Blades and Effective All the Time Check Box	If you check this box, then all IPv4 settings in the above section for ALL blade modules will use these settings ALL THE TIME and auto reset to these settings when the blades start up.
4	Save Button	Once you are done configuring your Blade Network settings, press this button to save your configurations.

4-8 Dynamic DNS Page

Click on DYNAMIC DNS to reveal the DYNAMIC DNS page (Figure 4-12). Use this page to configure dynamic update properties. The commands you may give on this page, are described below in Table 4-8.

Figure 4-12. Dynamic DNS Page

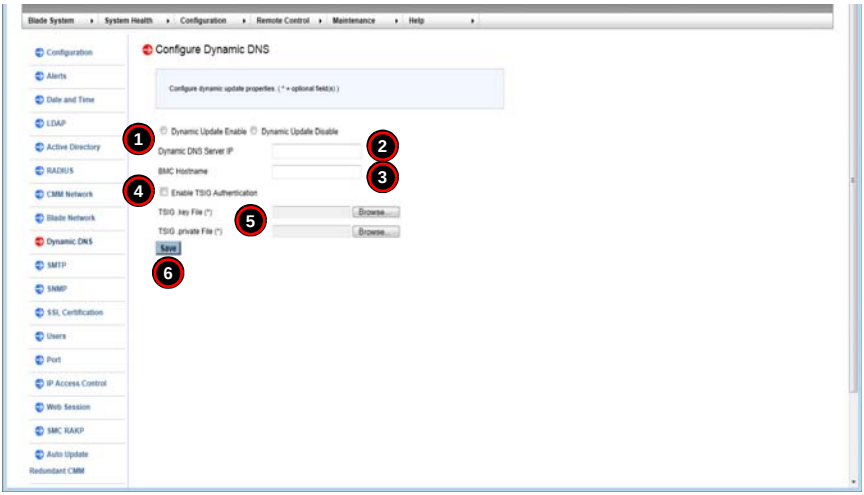


Table 4-8. Dynamic DNS Page Controls

Item	Control Name	Description
1	Dynamic Update Enable/Disable Check Boxes	Use these check boxes to enable or disable the Dynamic DNS feature for your system.
2	Dyanmic DNS Server IP Field	Enter the Dynamic DNS Server IP address in this field.
3	BMC Hostname Field	Enter the BMC Hostname in this field.
4	Enable TSG Authentification Check Box	If you want to enable TSG Authentification, then check this box.
5	TSG .key File/TSG .private File fields	Optionally, you may use these controls to browse and specify the locations for TSG .key or TSG .private files.
6	Save Button	Once you are done configuring your Dynamic DNS settings, press this button to save your configurations.

4-9 SMTP Page

Click on SMTP to reveal the SMTP page (Figure 4-13). Use this page to enter the IP Address for the SMTP Mail server and some of its configurations. The commands you may give on this page, as described below in Table 4-9.

Figure 4-13. SMTP Page

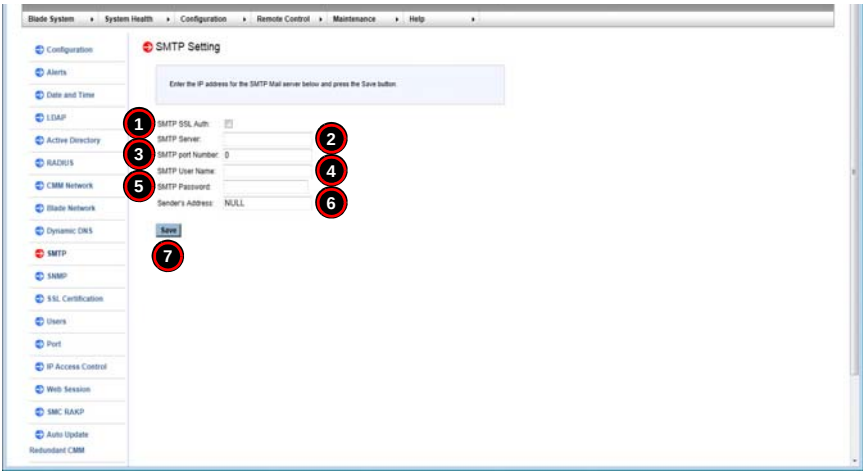


Table 4-9. SMTP Page Controls

Item	Control Name	Description
1	SMTP SSL Auth Check Box	Checking this check box allows you to require SMTP SSL authorization.
2	SMTP Server Field	This field is used to specify the SMTP Server address.
3	SMTP Port Number Field	This field is used to specify the SMTP Port Number.
4	SMTP User Name Field	This field is used to specify the SMTP User Name.
5	SMTP Password Field	This field is used to specify the SMTP Password.
6	Sender's Address Field	This field is used to specify the Sender's Address.
7	Save Button	Once you are done configuring your Dynamic DNS settings, press this button to save your configurations.

4-10 SNMP Page

Click on SNMP to reveal the SNMP page (Figure 4-14). Use this page to enter the IP Address for the SMTP Mail server and some of its configurations. The commands you may give on this page, as described below in Table 4-10.

Figure 4-14. SNMP Page

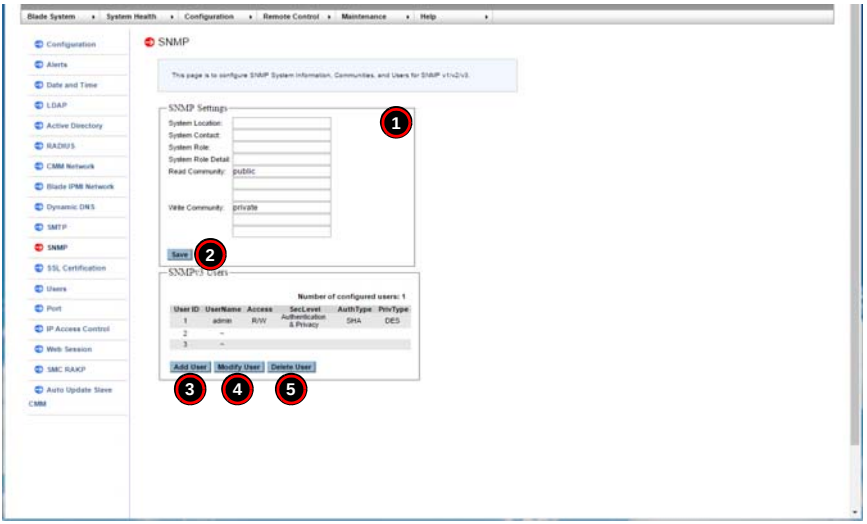


Table 4-10. SNMP Page Controls

Item	Control Name	Description
1	SNMP Settings Fields	Use these fields to configure SNMP system information, communities and users for SNMP v1/v2/v3. The information in these fields is for each record.
2	Save Button	After configuring the above fields, press the SAVE button to save this information to a record.
3	Add User Button	Press this button to open the ADD NEW SNMPV3 USER screen (Figure 4-15) to add a new SNMPv3 user to the SNMPV3 USER LIST above. Simply enter information in the fields and select from the drop-down list boxes the information for the new user and either press the ADD button to add a user or the CANCEL button to cancel the operation.
4	Modify User Button	Pressing this button modifies a selected user in the above SNMPV3 USER LIST by opening the MODIFY SNMPV3 USER screen (Figure 4-16). Simply change the information in the fields or drop-down list boxes for the user and either press the MODIFY button to modify a user or the CANCEL button to cancel the operation.
5	Delete User Button	Pressing this button deletes a selected user from the above SNMPV3 USER LIST.

Figure 4-15. Add New SNMPv3 User Screen

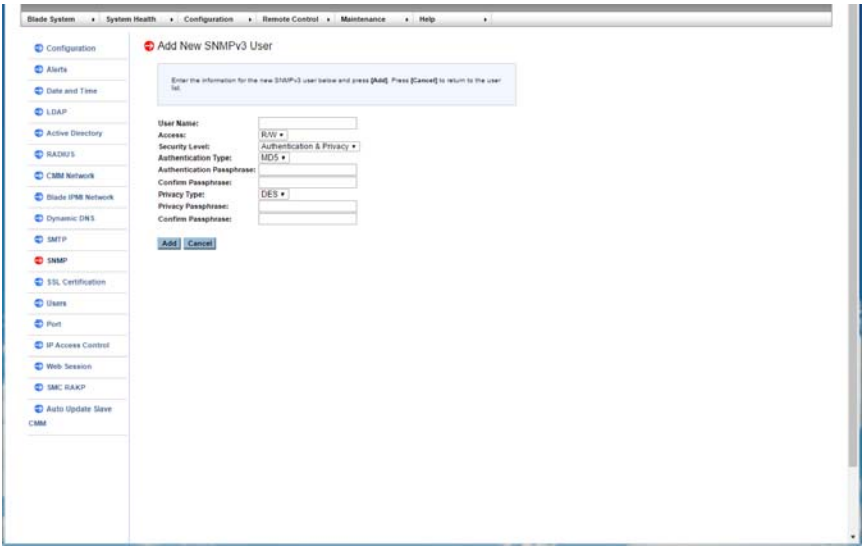
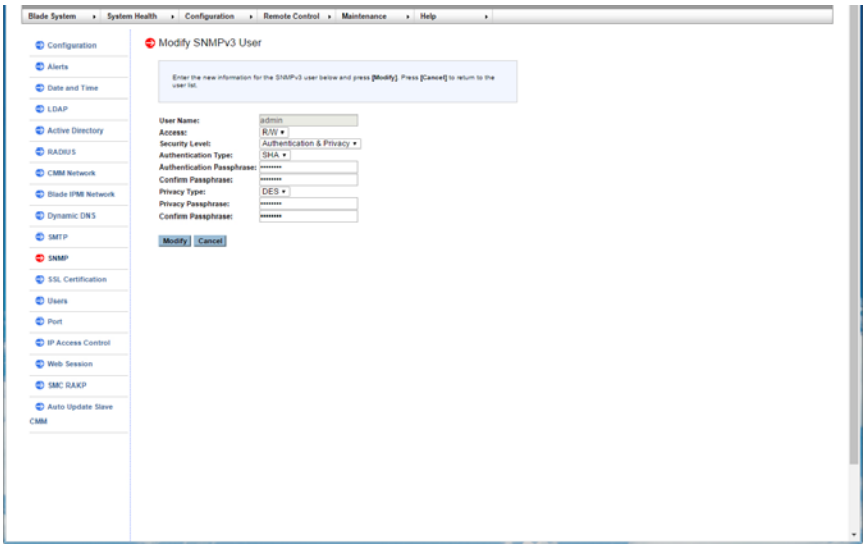


Figure 4-16. Modify SNMPv3 User Screen



4-11 SSL Certification Page

Click on SSL CERTIFICATION to reveal the SSL CERTIFICATION page (Figure 4-17). Use this page to specify the dates for the default certificate and private key and upload an SSL certificate. The commands you may give on this page, as described below in Table 4-11.

Figure 4-17. SSL Certification Page

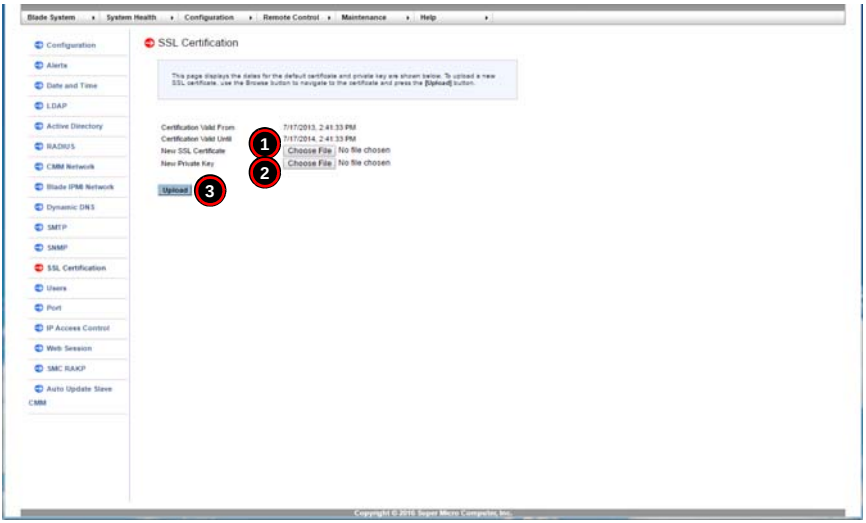


Table 4-11. SSL Certification Page Controls

Item	Control Name	Description
1	New SSL Certificate Choose File Button	Press this button to select a SSL Certificate file to use from your system.
2	New Private Key Choose File Button	Press this button to select a New Private Key to use from your system.
3	Upload Button	Press this button to upload the selected files for the SSL Certificate and the New Private Key to your system.

4-12 Users Page

The USERS page (Figure 4-12) is where you specify and manage groups and users, which helps you manage the remote systems you are managing. Its controls are shown in Table 4-12.

Figure 4-18. Users Page

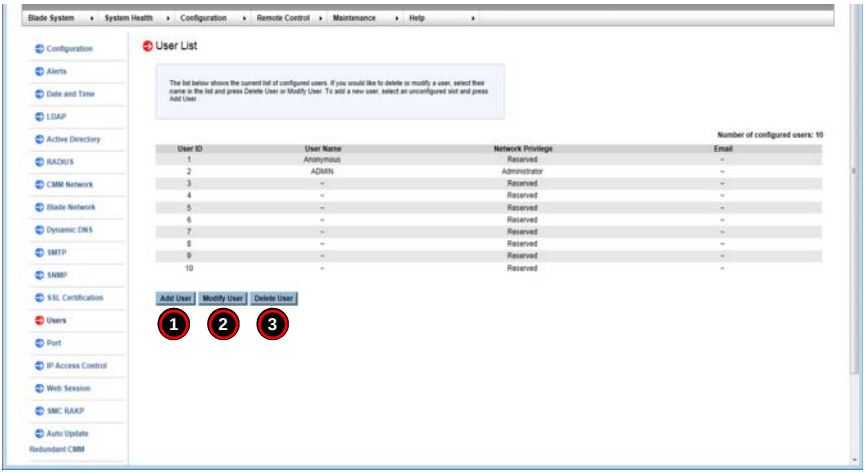


Table 4-12. Users Page Controls

Item	Control Name	Description
1	Add User Button	Selecting an unconfigured slot and pressing this button allows you to specify a new user for the User List on the page.
2	Modify User Button	Selecting a user and pressing this button allows you to modify a user from the User List on the page.
3	Delete User Button	Selecting a user and pressing this button allows you to delete a user from the User List on the page.

4-13 Port Page

Click on PORT to reveal the PORT SETTING page (Figure 4-19). Use this page to configure a port number for your system. The commands you may give on this page, as described below in Table 4-13.

Figure 4-19. Port Setting Page

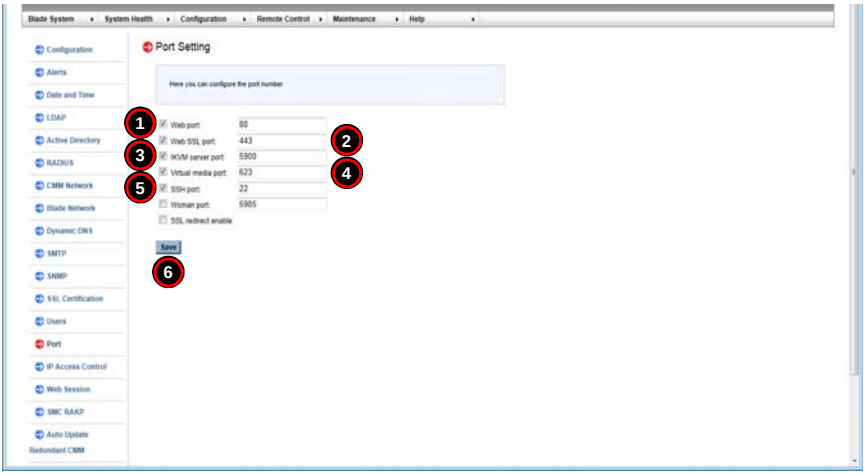


Table 4-13. Port Setting Page Controls

Item	Control Name	Description
1	Web Port Number Field	User this field to enter the Web Port number.
2	Web SSL Port Number Field	User this field to enter the Web SLL Port number.
3	KVM Server Port Number	User this field to enter the KVM Server Port number.
4	Virtual Media Port Number	User this field to enter the Virtual Media Port number.
5	SSL Redirect Enable Check Box	Check this box to enable SSL redirect for your system.
6	Save Button	Once you are done configuring your Port Number settings, press this button to save your configuration.

4-14 IP Access Control Page

Click on IP ACCESS CONTROL to reveal the IP ACCESS CONTROL page (Figure 4-20). Use this page to add, modify or delete an IP access rule and to enable IP Access Control to the Rule List on this page. The commands you may give on this page, as described below in Table 4-14.

Figure 4-20. IP Access Control Page

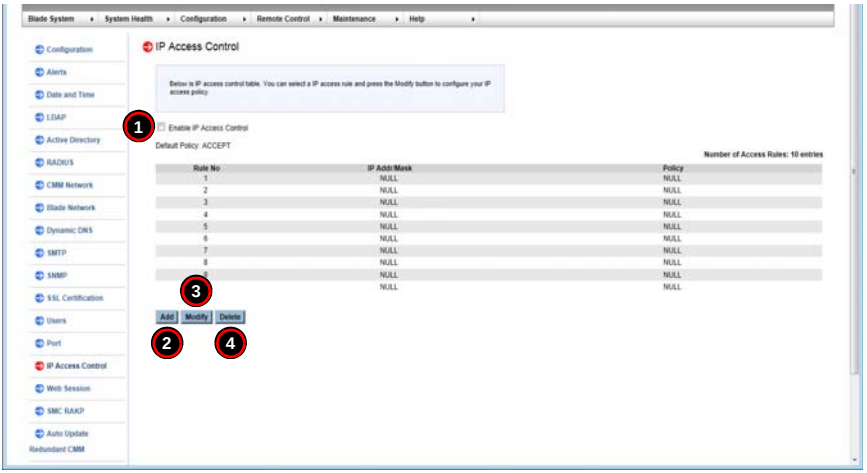


Table 4-14. IP Access Control Page Controls

Item	Control Name	Description
1	Enable IP Access Control Check Box	Check this box to enable Access Control for your system.
2	Add Button	Selecting an unconfigured slot and pressing this button allows you to specify a new rule for the Access Control Rule list on the page.
3	Modify Button	Selecting a user and pressing this button allows you to modify a rule from the Access Control Rule list on the page.
4	Delete Button	Selecting a user and pressing this button allows you to delete a rule from Access Control Rule list on the page.

4-15 Web Session Page

Click on WEB SESSION to reveal the WEB SESSION page (Figure 4-21). Use this page to web session parameters for your system. The commands you may give on this page, as described below in Table 4-15.

Figure 4-21. Web Session Page

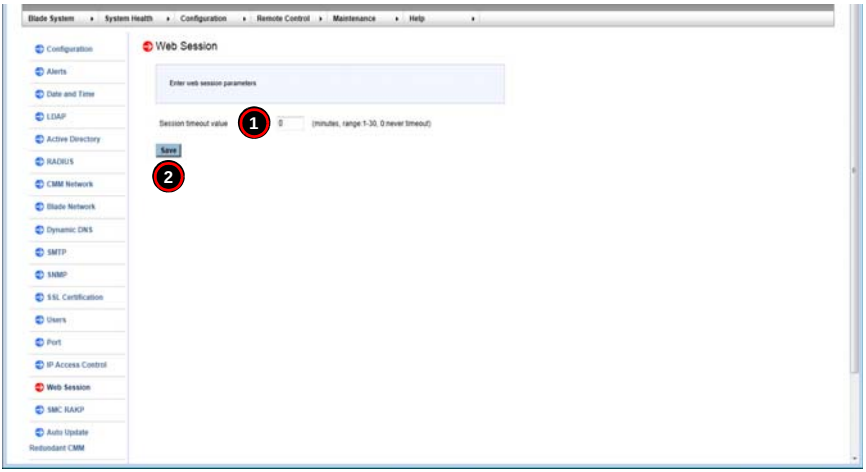


Table 4-15. Web Session Page Controls

Item	Control Name	Description
1	Session Timeout Value	Use this number field to enter the amount of minutes before a timeout occurs when using a web session. Enter **1-30** for the amount of minutes or **0** for no timeout.
2	Save Button	Once you are done configuring your Web Session settings, press this button to save your configuration.

4-16 SMC RAKP Page

Click on SMC RAKP to reveal the SMC RAKP page (Figure 4-22). Use this page to specify SMC RAKP parameters for your system. The commands you may give on this page, as described below in Table 4-16.

Figure 4-22. SMC RAKP Page

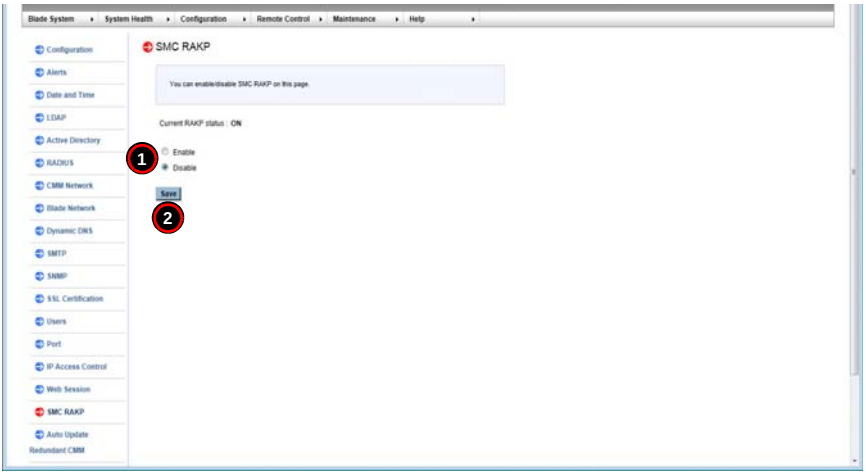


Table 4-16. SMC RAKP Page Controls

Item	Control Name	Description
1	RAKP Enable/Disable Option Buttons	Use these option buttons to Enable or Disable SMC RAKP in your system.
2	Save Button	Once you are done configuring your settings, press this button to save your configuration.

4-17 Auto Update Redundant CMM Page

Click on AUTO UPDATE REDUNDANT CMM to reveal the AUTO UPDATE REDUNDANT CMM page (Figure 4-23). Use this page to specify automatically updating redundant CMM firmware for your system. The commands you may give on this page, as described below in Table 4-17.

Figure 4-23. Auto Update Redundant CMM Page

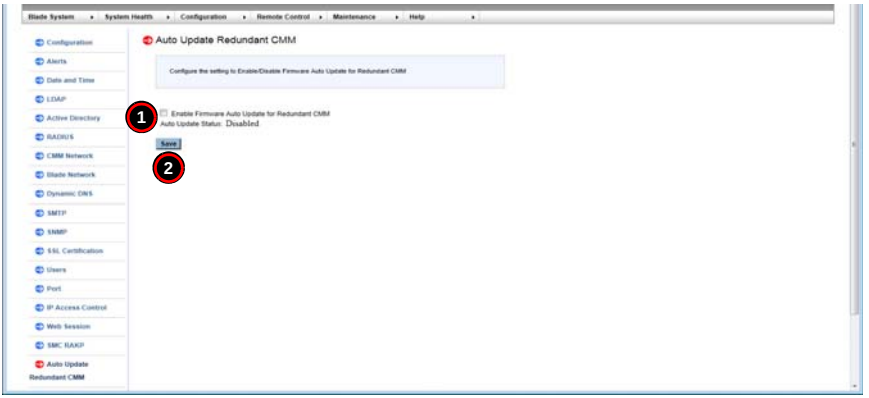


Table 4-17. Auto Update Redundant CMM Page Controls

Item	Control Name	Description
1	Enable Firmware: Auto Redundant CMM Check Box	Click on this check box to Enable the firmware auto redundant CMM function in your system.
2	Save Button	Once you are done configuring your settings, press this button to save your configuration.

Chapter 5
Remote Console

This chapter covers the use of the Remote Console in the Web-based Management Utility software.

- Console Redirection Page
- Launch SOL

5-1 Console Redirection Page

Click on CONSOLE REDIRECTION to reveal the CONSOLE REDIRECTION page (Figure 5-1). Use this page to launch the REDIRECTION CONSOLE window and mange the blade/node server remotely. The commands you may give on this page, are described below in Table 5-1.

Figure 5-1. Console Redirection Page

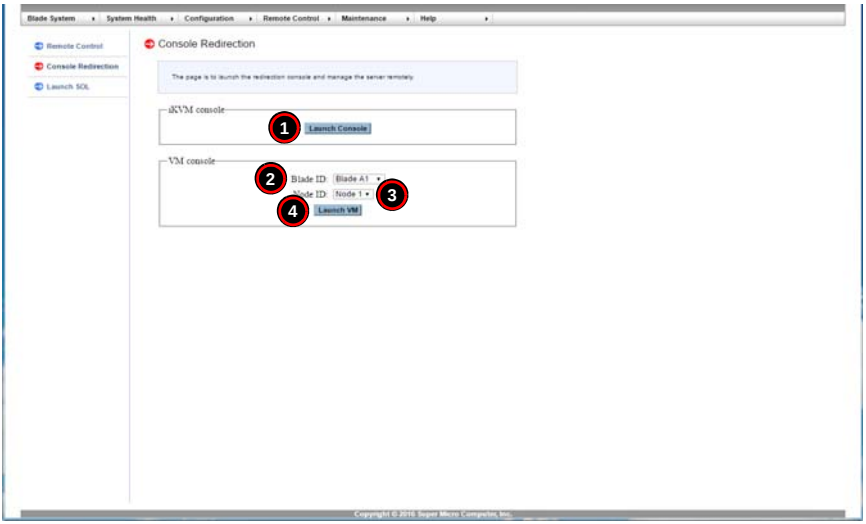


Table 5-1. Console Redirection Page Controls

Item	Control Name	Description
1	Launch Console Button	Press this button to launch a REMOTE CONSOLE window for the selected blade module and node to view.
2	Blade ID Selection List	Use this selection list to select the blade server.
3	Node ID Selection List	Use this list to view the node you wish to view in the console windows.
4	Launch VM Button	Use this button to launch VM.

5-2 Launch SOL

Click on LAUNCH SOL to reveal the SOL CONSOLE page (Figure 5-2). Use this page to launch the SOL CONSOLE window and mange the blade server/node remotely. The commands you may give on this page, are described below in Table 5-2.

Figure 5-2. SOL Console Page

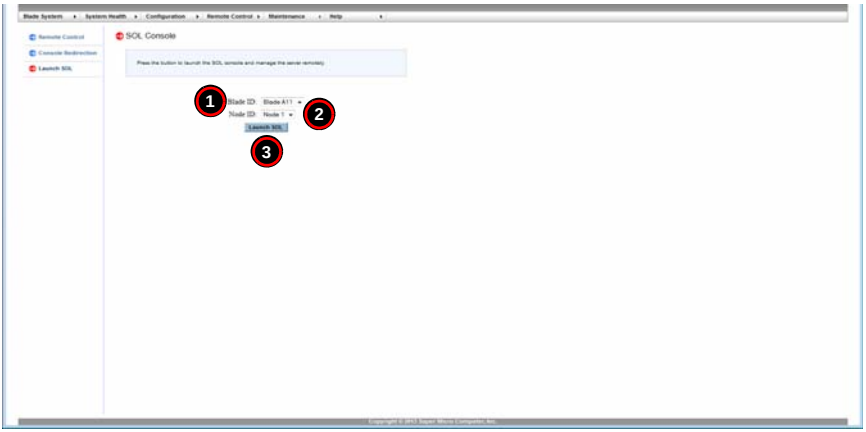


Table 5-2. SOL Console Page Controls

Item	Control Name	Description
1	Blade ID Selection List	Use this selection list to select the blade server.
2	Node ID Selection List	Use this list to view the node you wish to view in the console windows.
3	Launch SOL Button	Press this button to launch a SOL CONSOLE window for the selected blade module and node to view.

Chapter 6
Maintenance

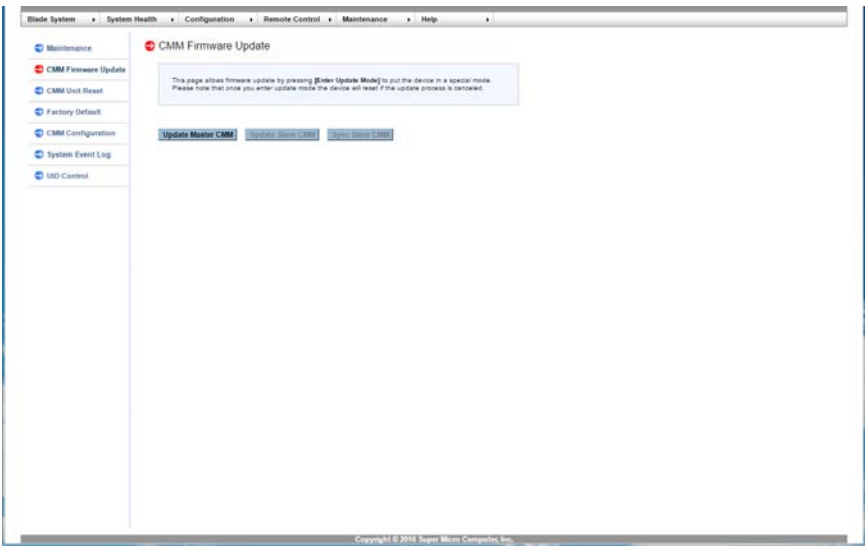
Use the MAINTENANCE menu for maintenance configurations on your system. Clicking the MAINTENANCE icon allows you to access the following pages through its sub-menus:

- CMM Firmware Update Page
- CMM Unit Reset Page
- Factory Default Page
- CMM Configuration Page
- System Event Log Page
- UID Control Page

6-1 CMM Firmware Update Page

Clicking the CMM UPDATE FIRMWARE link in the MAINTENANCE submenu brings up the CMM FIRMWARE UPDATE page (Figure 6-1). Pressing the UPDATE MASTER CMM to update the Master CMM firmware. Press the UPDATE SLAVE CMM button to update the Slave CMM firmware and press the SYNC SLAVE CMM to sync the Slave CMM to the master CMM.

Figure 6-1. Update Firmware Page

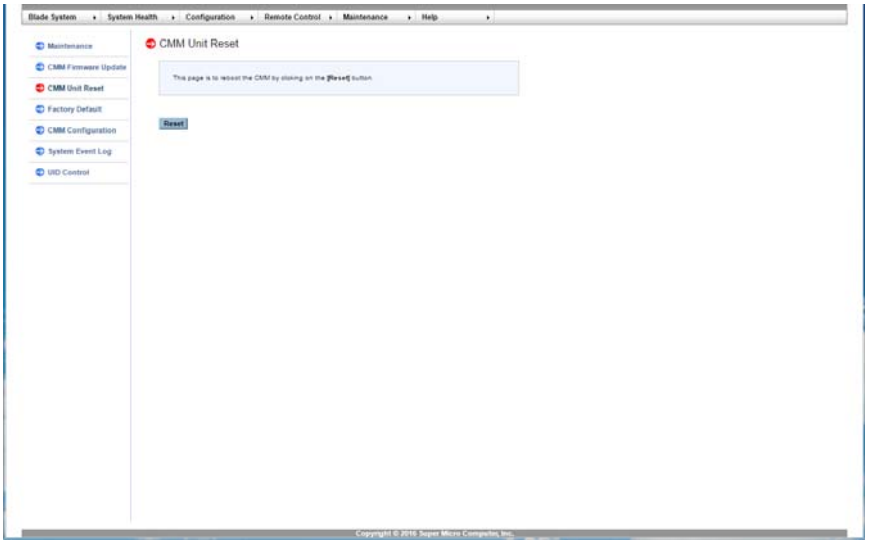


NOTE: Once you put this device into Update Mode, the device will reset if the update process is canceled. This process is not reversible once the firmware is updated, so proceed with caution. It might take a few minutes to complete this procedure.

6-2 CMM Unit Reset Page

Clicking the CMM UNIT RESET link in the MAINTENANCE submenu brings up the UNIT RESET page (Figure 6-2). Pressing the RESET button on this page reboots the IPMI device.

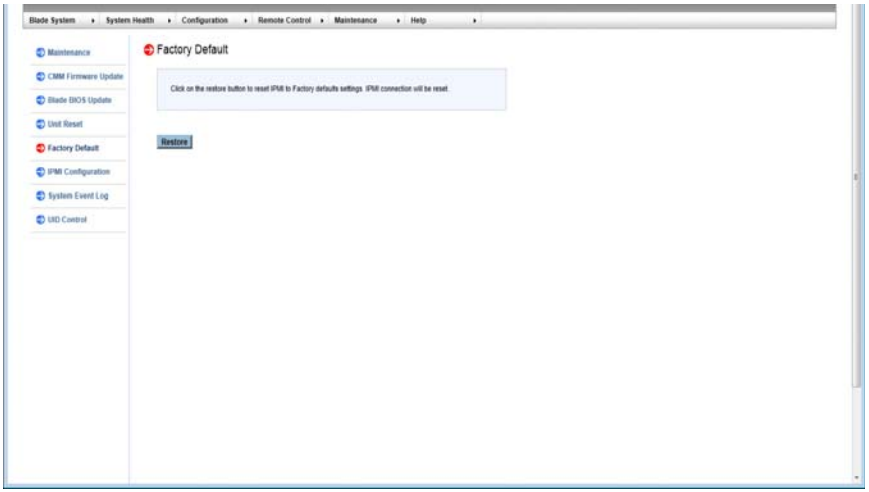
Figure 6-2. Unit Reset Page



6-3 Factory Default Page

Clicking the FACTORY DEFAULT link in the MAINTENANCE submenu brings up the FACTORY DEFAULT page (Figure 6-3). Pressing the RESTORE button on this page restores the factory default settings back to the IPMI device.

Figure 6-3. Factory Default Page

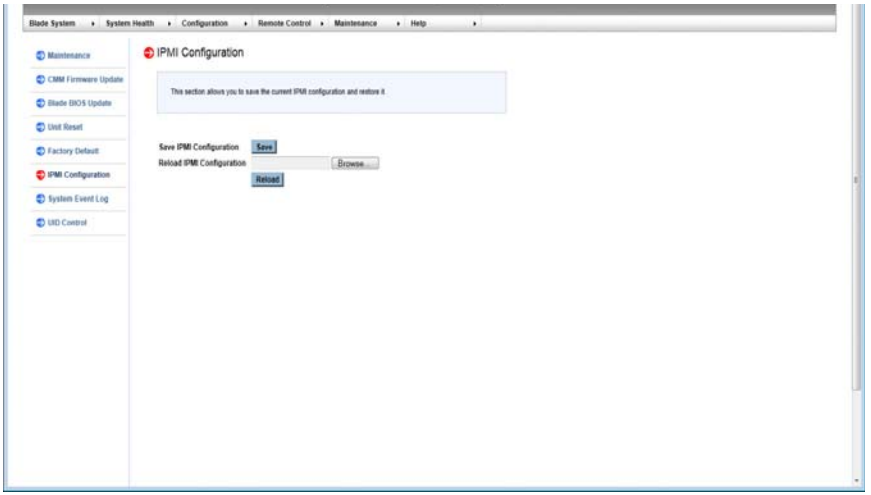


6-4 CMM Configuration Page

Clicking the CMM CONFIGURATION link in the MAINTENANCE submenu brings up the CM CONFIGURATION page (Figure 6-4). This page allows you to save the current IPMI configuration and restore it. Press the SAVE button to save the current configuration. If you wish to restore a previous configuration, then press the BROWSE button to locate and select the previously saved configuration file and then press the RELOAD button to restore it.

NOTE: It is recommended that you save your configuration so that you can restore it in the future in case a new configuration is not to your liking.

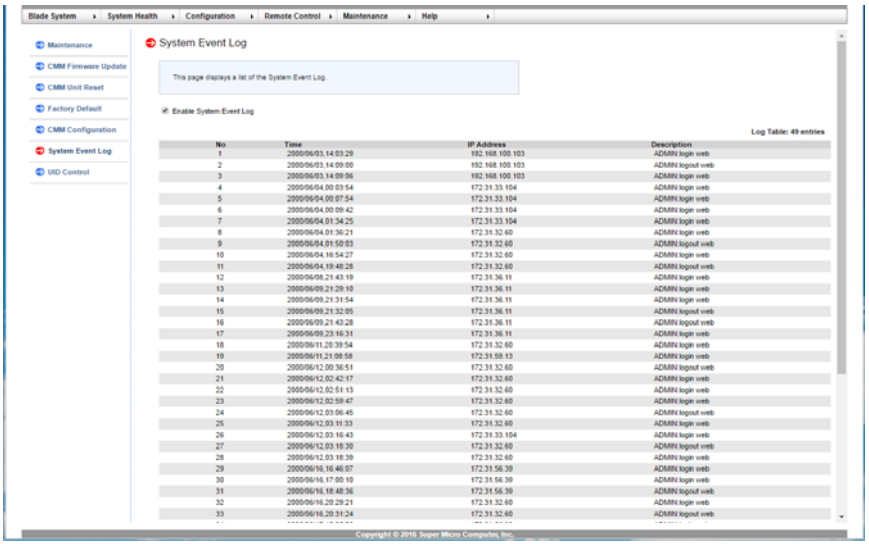
Figure 6-4. CMM Configuration Page



6-5 System Event Log Page

Clicking the SYSTEM EVENT LOG link in the MAINTENANCE submenu brings up the LIST OF SYSTEM EVENT LOG page (Figure 6-5). This page contains information on events that are recorded by the SIMCM in the order of Number, Date/Time, IP Address and Descriptions. Check the ENABLE SYSTEM EVENT LOG check box to enable this feature and press the CLEAR button to clear the log list.

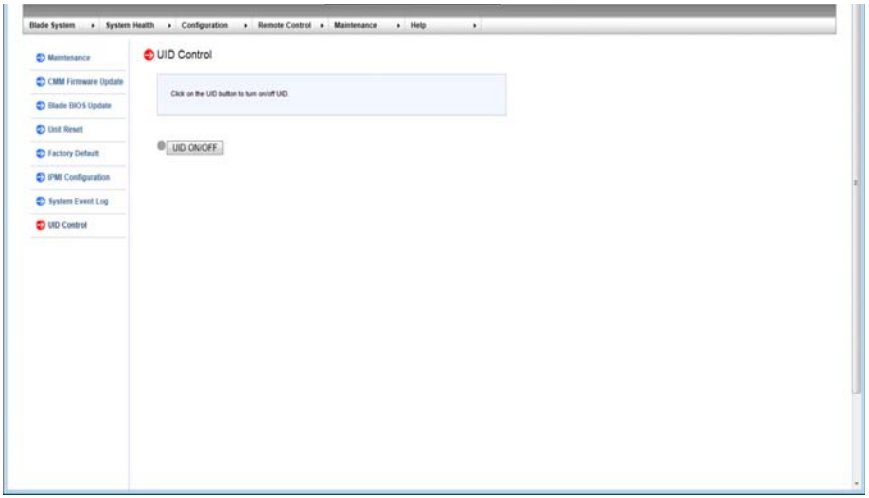
Figure 6-5. List of System Event Log Page



6-6 UID Control Page

Clicking the UID CONTROL link in the MAINTENANCE submenu brings up the UID CONTROL page (Figure 6-6). On this click on the UID ON/OFF list button to turn the devices UID or click it off to turn off the UID..

Figure 6-6. List of System Event Log Page



Appendix A
Checking the MAC Address

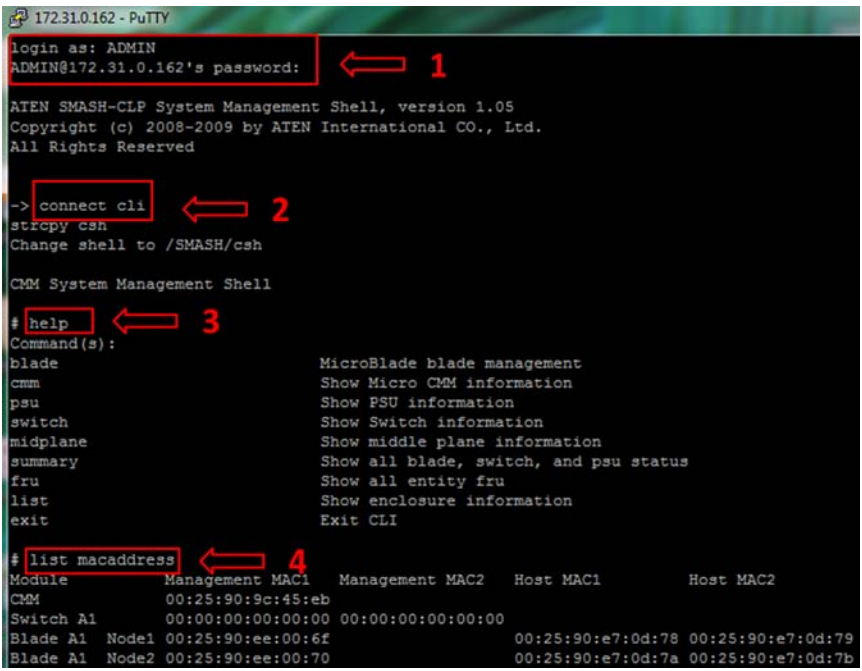
Use the following procecure to check the MicroBlade's MAC address and other information through the command line interface. You can enter the CMM IP address through Putty SSH to get this information.

Checking the MAC Address through the CMM Command Line Interface

1. Login as an ADMIN using the command `ssh ADMIN@CMMIP`.
2. Connect to the command line interface using the command `connect cli`.
3. Get the MAC address and other information using the command `list macaddress`.

See Figure A-1 for an example of the above procedure.

Figure A-1. Checking the MAC Address using the Command Line Interface



Notes

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