



IPMIView
for MicroBlade™ Management
User's Guide

Revision 2.16

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1 Introduction

MicroBlade Management is a new feature in version 2.10 of IPMIView. IPMIView sends messages to the CMM (Chassis Management Module) and receives messages in return. Here, messages represent the commands encapsulated in the RMCP+ (Remote Management Control Protocol) packet of the IPMI standard.


IPMIView monitors and reports the status of a MicroBlade including node, power supply and gigabit switch status. IPMIView makes management easier by visualizing the MicroBlade as a GUI. It also supports remote KVM and user management.



Figure 1-1 MicroBlade

2 Login and Node Status

2.1 Login

In the IPMIView device list (Figure 1-2), the MicroBlade icon  appears once the CMM is added. Double-click it, and the login screen displays.

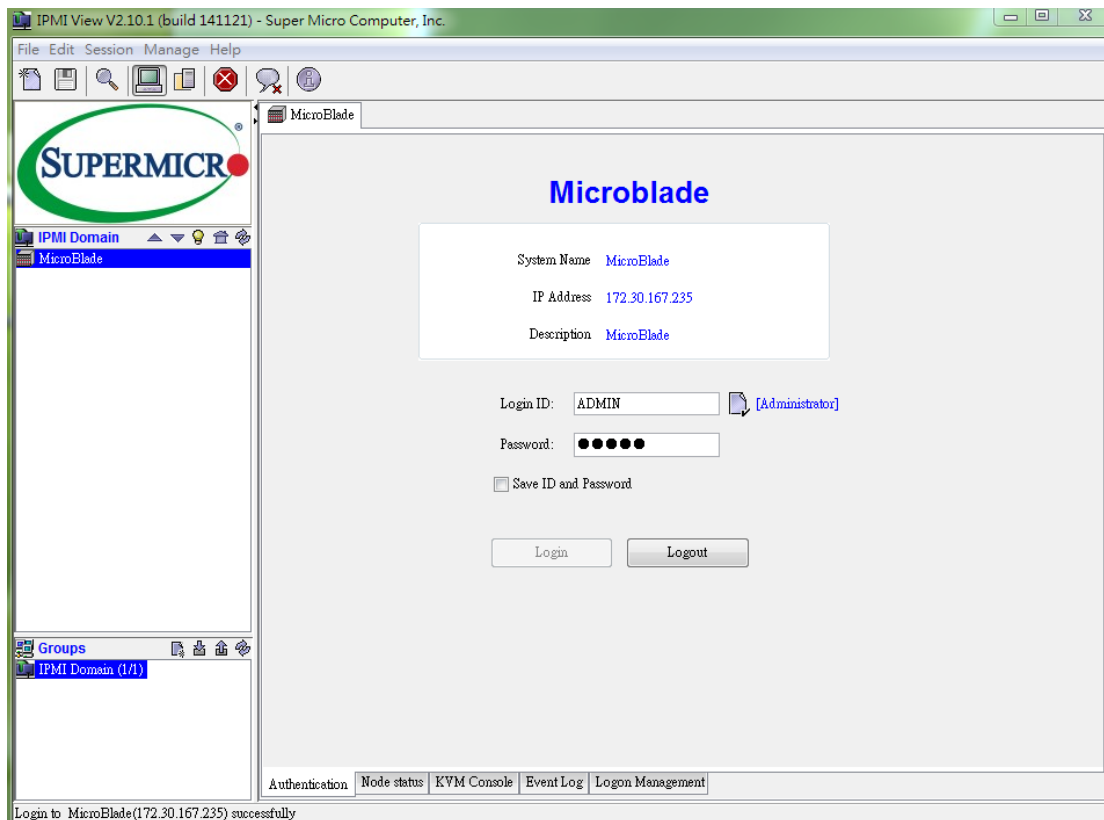


Figure 1-2 Login to SuperBlade

Type your username and password and then click **Login**. Note that **ADMIN** is both the username and password by default.

Once you log in, several tabs appear at the bottom of the page including Node Status, KVM Console, Event Log and Logon Management.

2.2 Node Status Tab

Click the **Node Status** tab to display the following page.

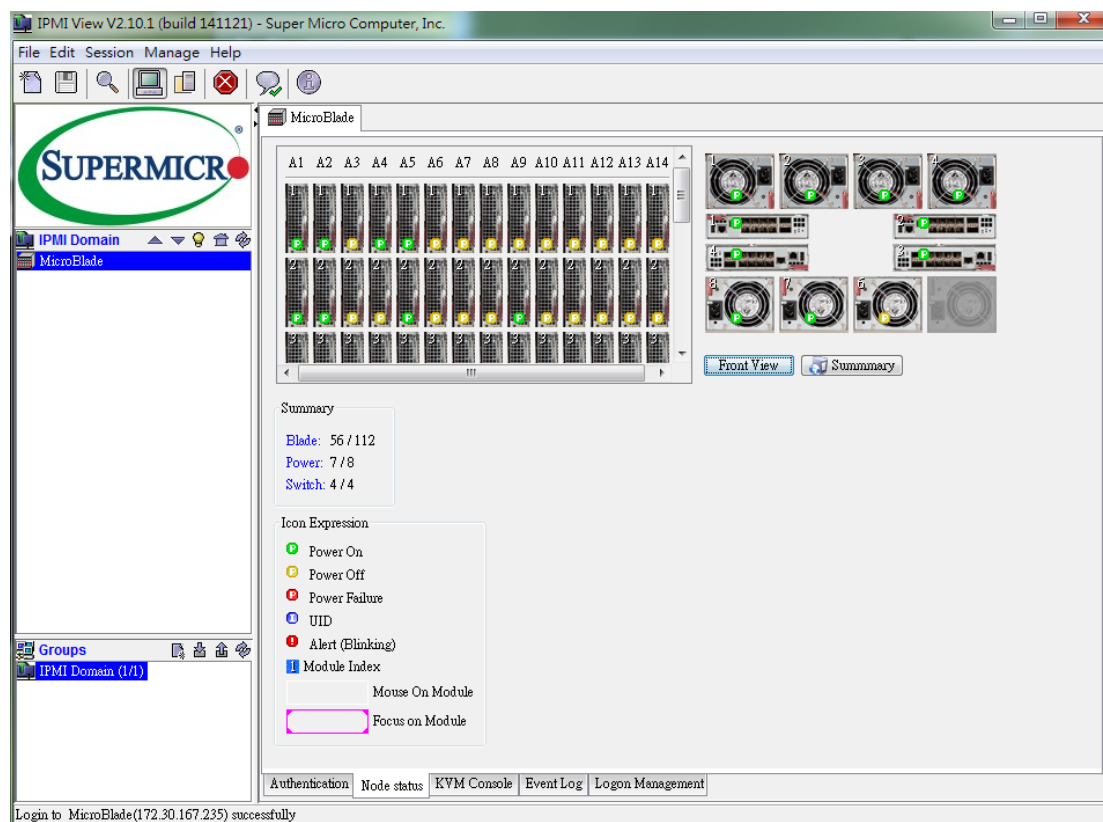


Figure 1-3, Node Status Tab

The upper section is the Node Status View. In this view, each component is monitored. Any changes that occur in the MicroBlade are shown here. For example, if blade 1 is removed, the blade 1 icon here is grayed out. If blade 10 is turned off, the power symbol of blade 10 turns amber. The Node Status View reflects the current status of a MicroBlade module. Node numbers may vary because of different blade servers. If you install different types of blades, the actual number of nodes is also shown here.

Each module picture in the upper side of the page can be clicked, and the status of each module is shown in the lower section of this page. The Summary section (Blade, Power and Switch) shows the information. Here you can get more information and send more commands to the blade module.

2.2.1 Node Status View

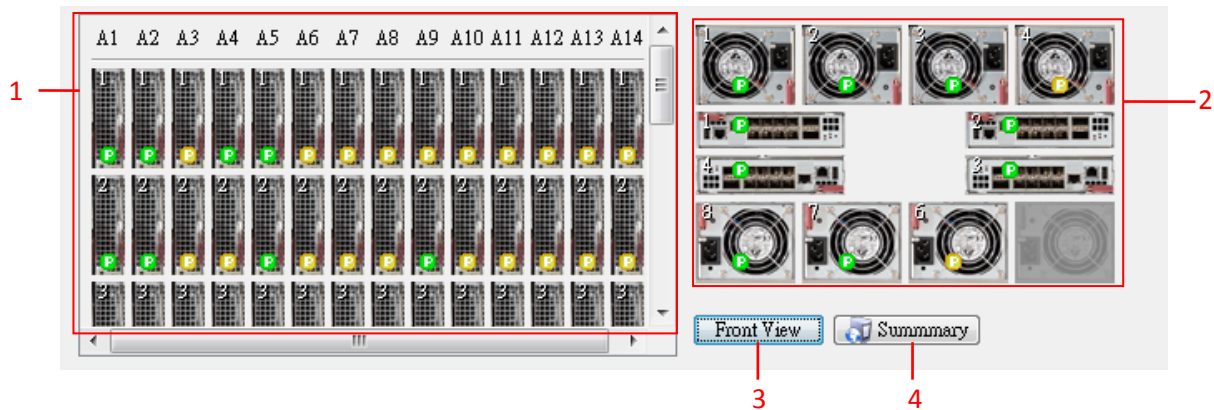


Figure 2-1, Upper Section of Node Status

The upper section of the the Node Status View provides a quick view of the MicroBlade status.

1. **Blade Front View:** Displays the front view of each blade and node.
2. **Blade Rear View:** Displays the rear view of the power supply and gigabit switch.

Power Supply Modules

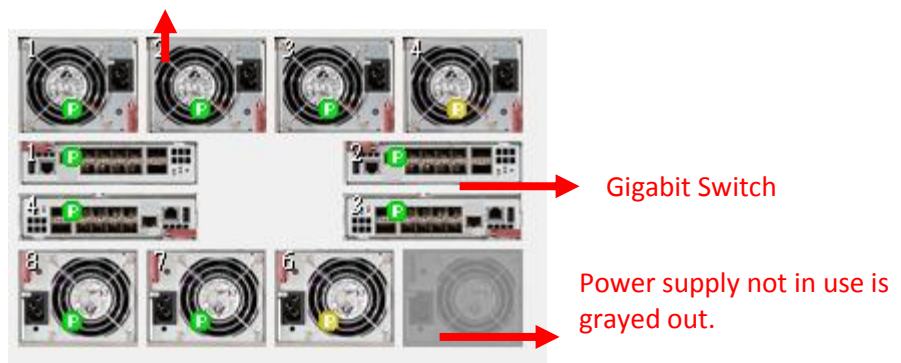


Figure 2-2 Blade Rear View

3. **Front View:** Click this button and an additional panel appears, which displays the whole node view without a scroll bar (see Figure 2-3). There will be a maximum of 128 nodes. If a blade is not installed, it is grayed out in this view.

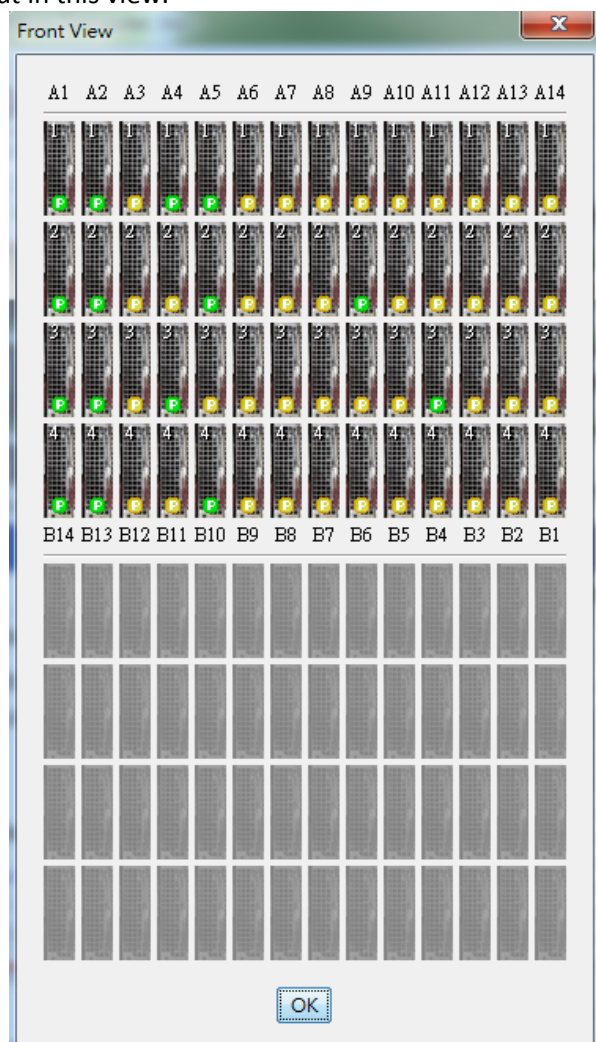


Figure 2-3

-
4. **Summary:** Click this button and two information sections appear. The “Summary” section shows the number of blades, power supplies and switches. The “Icon Expression” section illustrates the meaning of each icon. Each icon has a status symbol to show the current status. Each MicroBlade Module may have different symbols.

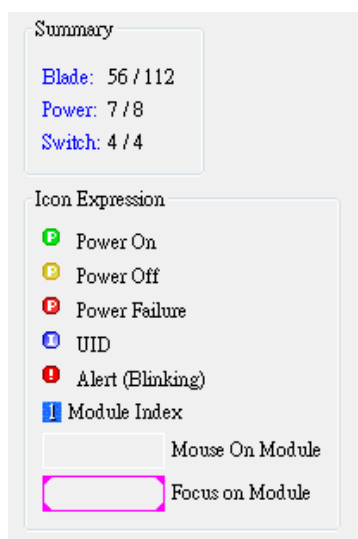


Figure 2-4 Summary and Icon Expression

2.3 Node UI

Click on one of the node modules. The Node UI is shown at the bottom.

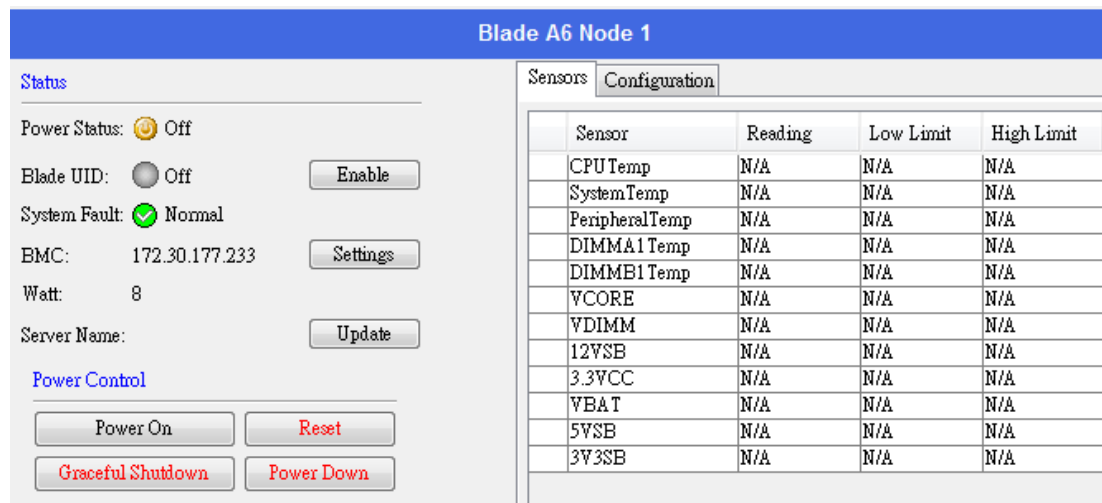


Figure 2-5, Node UI

2.3.1 Status

- **Power Status:** This shows the current power status. Types of status include power on, power off and power failure.
- **Blade UID:** This shows the status of the UID LED. Click the **Enable** button to enable or disable the UID. Once the UID is enabled, the UID LED on blade panel will flash. Please note that the UID represents the whole blade. For example, if you enable UID on Node 1, it will affect the other 4 nodes on the same blade.
- **System Fault:** This shows the system fault status.
- **BMC:** This shows the BMC status. If BMC is installed, it will show the BMC IP address. Click the **Settings** button to update the BMC configuration including DHCP, IP, sub net Mask and Gateway. See Figure 2-6. If BMC is not installed, a message “not installed” is shown next to the BMC field.

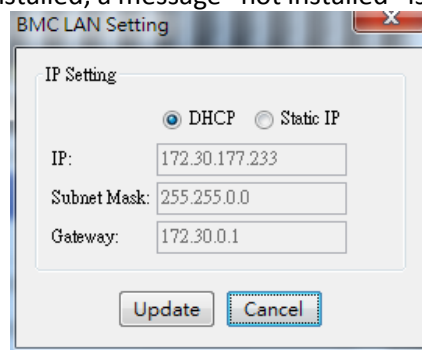


Figure 2-6 Update BMC IP

- **Watt:** The estimated power consumption of this blade. This is a static value from the BIOS.
- **Server Name:** Users can see server name here. After clicking “Update” button, a simple dialog will

appear to help users to update server name.

2.3.2 Power Control



Figure 2-7 Power Control

- **Power On:** Powers on the blade.
- **Reset:** Rests the blade.
- **Graceful Shutdown:** Gracefully shuts down the blade.
- **Power Down:** Powers down the blade.

2.3.3 Sensors

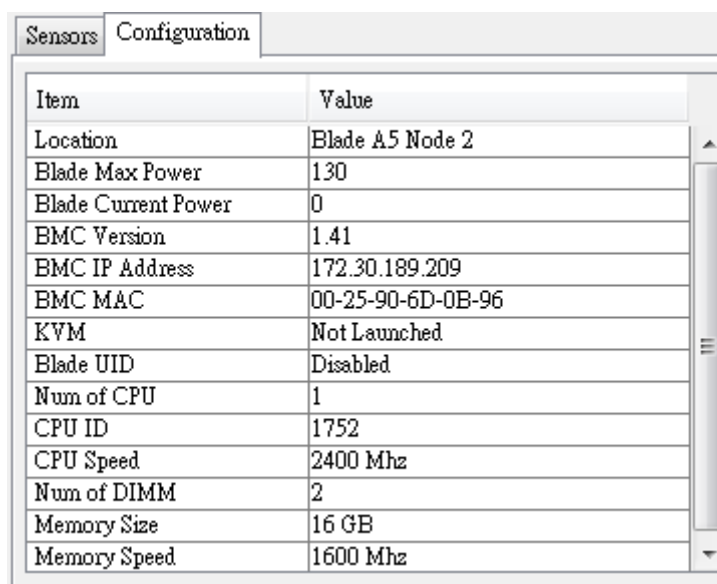
The Sensors section shows information on the CPU and the temperature and voltages of the selected blade. The type of information include status, sensor name, reading, low limit and high limit. If the sensor status is normal, the value in the Reading column will be displayed in blue, and an OK symbol (✓) appears before the sensor. If the sensor status is critical, the value in the Reading column will be displayed in red and a failure symbol (✗) appears before the sensor. If the sensor is not in use, “N/A” appears in the Reading column and no status symbol appears before the sensor.

Sensors		Configuration		
	Sensor	Reading	Low Limit	High Limit
✓	CPUTemp	32°C	0°C	100°C
✓	SystemTemp	32°C	-7°C	85°C
✓	PeripheralTemp	33°C	-7°C	85°C
✓	DIMMA1Temp	33°C	2°C	85°C
✓	DIMMB1Temp	37°C	2°C	85°C
✓	VCORE	0.922V	0.349V	1.251V
✓	VDIMM	1.329V	1.125V	1.727V
✓	12VSB	12.104V	10.34V	13.364V
✓	3.3VCC	3.379V	2.834V	3.661V
✓	VBAT	3.193V	2.491V	3.602V
✓	5VSB	5.031V	4.29V	5.538V
✓	3V3SB	3.33V	2.85V	3.66V

Figure 2-8, Blade Sensor Table

2.3.4 Configuration

The Configuration section shows Blade, BMC and CPU information. You can view the details in the table below.



The screenshot shows a web interface with two tabs: 'Sensors' and 'Configuration'. The 'Configuration' tab is active, displaying a table with system information. The table has two columns: 'Item' and 'Value'. The items listed include Location, Blade Max Power, Blade Current Power, BMC Version, BMC IP Address, BMC MAC, KVM, Blade UID, Num of CPU, CPU ID, CPU Speed, Num of DIMM, Memory Size, and Memory Speed. A vertical scrollbar is visible on the right side of the table.

Item	Value
Location	Blade A5 Node 2
Blade Max Power	130
Blade Current Power	0
BMC Version	1.41
BMC IP Address	172.30.189.209
BMC MAC	00-25-90-6D-0B-96
KVM	Not Launched
Blade UID	Disabled
Num of CPU	1
CPU ID	1752
CPU Speed	2400 Mhz
Num of DIMM	2
Memory Size	16 GB
Memory Speed	1600 Mhz

Figure 2-9, Blade Configuration Table

2.4 Power Supply UI

Click on a power supply module. The Power Supply screen (Figure 2-10) appears at the bottom.

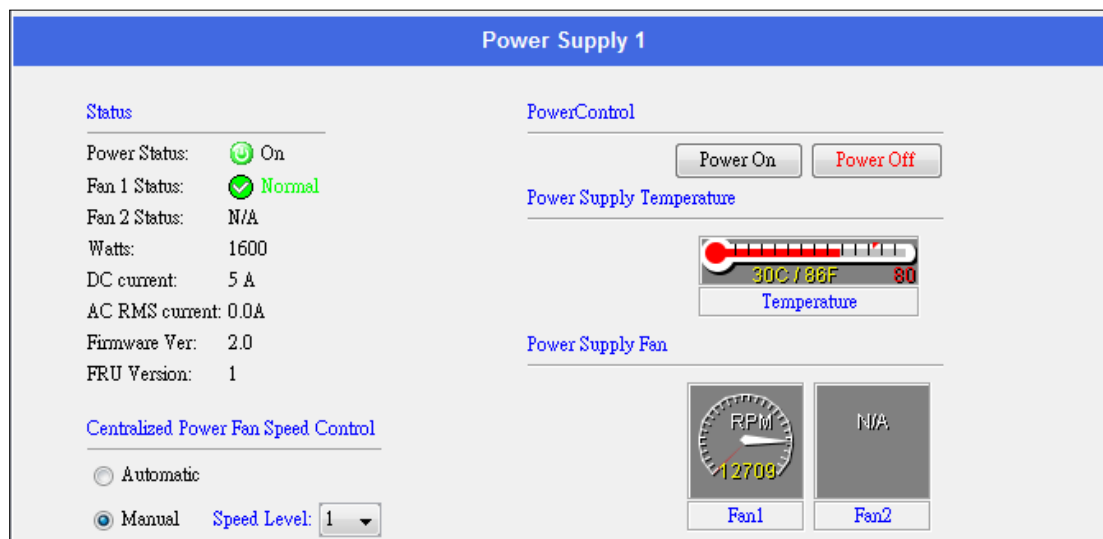


Figure 2-10 Power Supply UI

2.4.1 Status

- **Power Status:** This shows the current power status: either power on, power off or power failure.
- **Fan 1 Status:** This shows the current power supply fan 1 as normal or abnormal.
- **Fan 2 Status:** This shows the current power supply fan 2 as normal or abnormal.
- **Watts:** This shows the total wattage provided by this power supply.
- **DC current:** This shows the current DC current (only 1400W power supplies support this status).
- **AC RMS current:** This shows the current AC RMS current (only 1400W power supplies support this status).
- **Firmware Ver:** This shows the firmware version in the power supply.
- **FRU Version:** This shows the FRU version in the power supply.

2.4.2 Centralized Power Fan Speed Control

The centralized power fan speed controls all power supplies and fans in a MicroBlade.

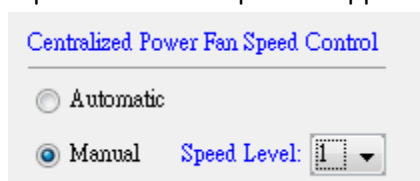


Figure 2-11 Centralized Power Fan Speed Control

- **Automatic:** Fan speed is automatically controlled by default. When the fan speed is automatically controlled, the CMM will monitor the system loading and optimize all fan speeds. When the system is in automatic mode, you cannot change the fan speed level.
- **Manual:** You can alter the speed of the power supply fans by using the drop-down list to select the speed level. The speed level ranges from 1 to 10. After changing the fan speed, you should see the fan rpm change on the right panel. Please note that this function applies to all fans in the system. You cannot control specific fans.

2.4.3 Power Control

Unlike fan speed control, all power control function items control individual power supplies.

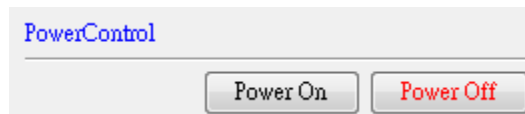


Figure 2-12 Power Control

- **Power On:** Powers on the selected power supply.
- **Power Off:** Powers off the selected power supply.

2.4.4 Power Supply Temperature and Power Supply Fan

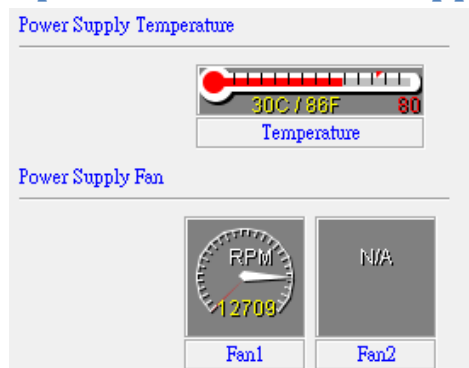


Figure 2-13 Power Supply Temperature and Power Supply Fan

- **Power Supply Temperature:** The thermometer displays the current temperature in both Celsius and Fahrenheit.
- **Power Supply Fan:** The fan speed diagram displays the current fan speed in RPMs. Note when the current power supply power is off, another power supply will support the fan. Sometimes there is only one fan for the selected power supply. The diagram displays "N/A" to show that one of the fans does not exist.

2.5 Gigabit Switch UI

Click one of gigabit switch modules. The gigabit switch UI (Figure 2-14) shows up at the bottom.

Switch 2

Item	Value
Switch	Switch A2
Switch Type	Gigabit Switch
Model Name	MBM-XEM-001
Power Status	On
Temperature	31
UID	<input type="radio"/> Disabled
Error	<input checked="" type="checkbox"/> Normal
Initialized	OK

Switch management configuration

Username and Password:

IP Mode: ☐ DHCP ☒ Static IP

WSS IP:

Netmask:

Gateway:

Power Control

Figure 2-14 Gigabit Switch UI

2.5.1 Status Table

The Status Table is in the top left section and displays information on this gigabit switch.

- **Switch Type:** Shows the type of switch.
- **Model Name:** Shows the model name.
- **Power Status:** Shows the current gigabit switch power status, either power on or power off.
- **Temperature:** Shows the current temperature of this switch.
- **UID:** Shows the gigabit switch UID LED status.
- **Error LED:** Indicates that the gigabit switch has received an error.
- **Initialized:** Indicates that the gigabit switch has been initialized.

2.5.2 Power Control and UID Control

The control panel is in the bottom section and allows you to turn the switch power and UID on or off.

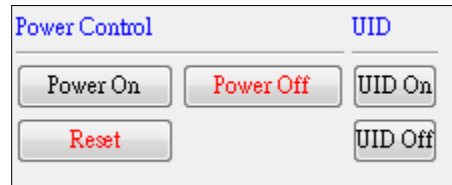


Figure 2-15 Power Control of Gigabit Switch

- **Power On:** Click to power on the gigabit switch.
- **Power Off:** Click to power off the gigabit switch.
- **Reset:** Click to reset the gigabit switch.
- **UID on:** Click to enable the UID LED.
- **UID off:** Click to disable the UID LED.

2.5.3 Switch Management Configuration

You can modify WebSuperSmart, which holds the parameters of the gigabit switch web engine. WebSuperSmart is a web interface used to management gigabit switches. For details, please refer to the gigabit switch manual.

Figure 2-16 Switch Management Configuration

- **Password:** Password of the WebSuperSmart engine.
- **IP Mode:** IP mode is either DHCP or static IP.
- **WSS IP:** IP of the WebSuperSmart web engine.
- **Netmask:** Netmask of the gigabit switch.
- **Gateway:** Gateway of the gigabit switch.
- **Restore:** Immediately reloads the settings from the gigabit switch.
- **Update:** Applies changes to a gigabit switch.

2.5.4 Resetting Password

1. Click **Setting** and a dialog box (Figure 2-17) shows up.

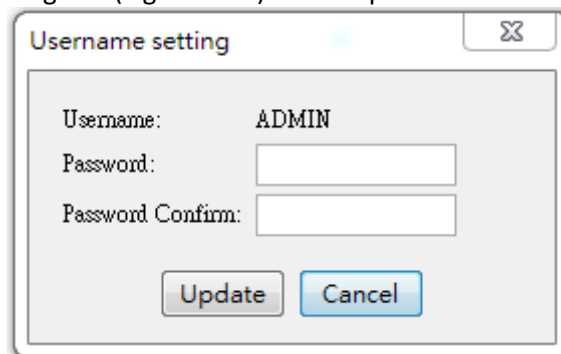
A screenshot of a 'Username setting' dialog box. The dialog has a title bar with the text 'Username setting' and a close button. Inside the dialog, there are three labels: 'Username:', 'Password:', and 'Password Confirm:'. The 'Username:' field is filled with the text 'ADMIN'. The 'Password:' and 'Password Confirm:' fields are empty text boxes. At the bottom of the dialog, there are two buttons: 'Update' and 'Cancel'.

Figure 2-17 Username and Password Reset

2. Type and confirm your new password, and then click **Update** to apply the changes.

3 KVM Console

KVM Console provides a remote desktop for use, which allows you remotely change the blade's UI.

3.1.1 iKVM Viewer

1. To launch the console, click the **Launch KVM Console** button (Figure 3-1).

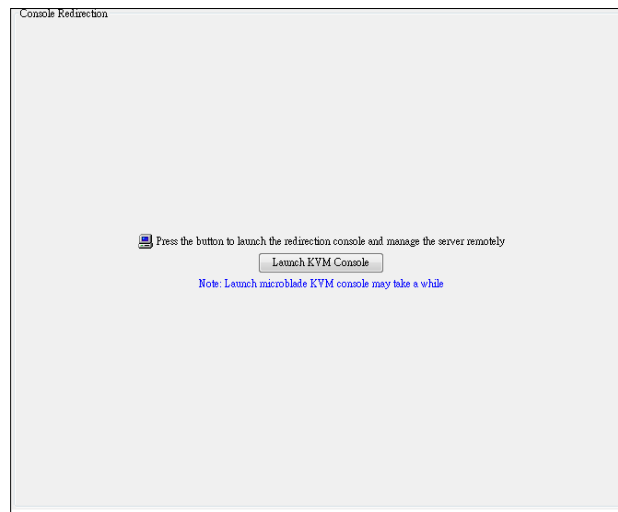


Figure 3-1

2. On the toolbar click **Switch KVM**.

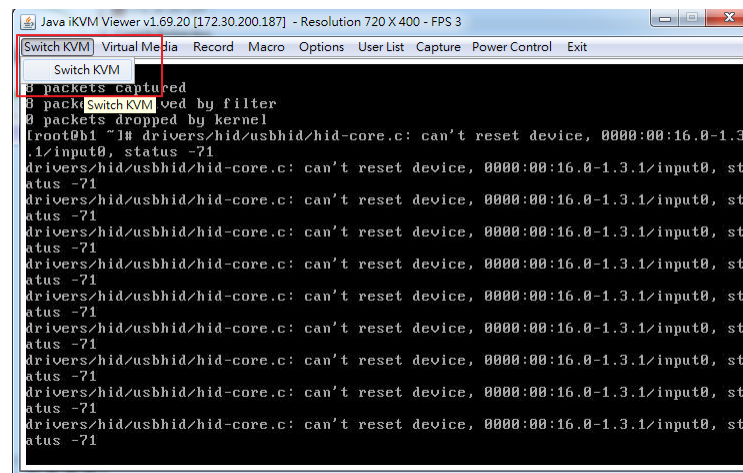


Figure 3-2

3. A panel pops up to allow users to switch to other nodes.

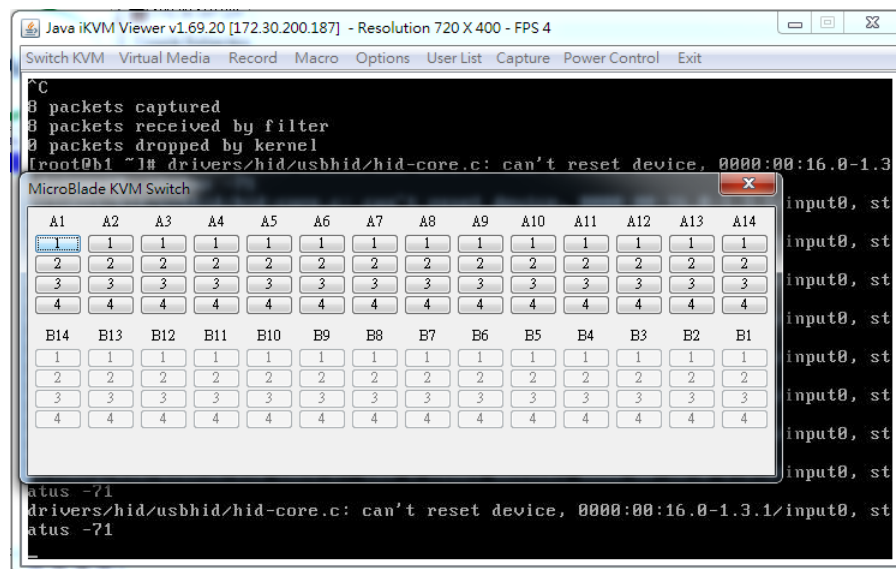


Figure 3-3

The grayed-out buttons represent unavailable nodes. Available nodes can be selected whether they are powered on or off. To control the power of the nodes, click **Power Control** on the tool bar.

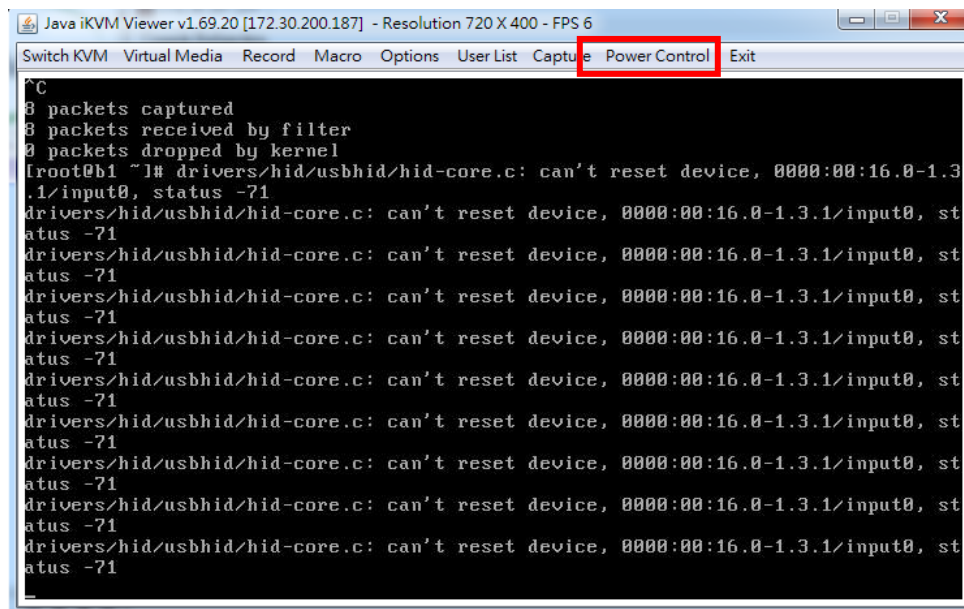

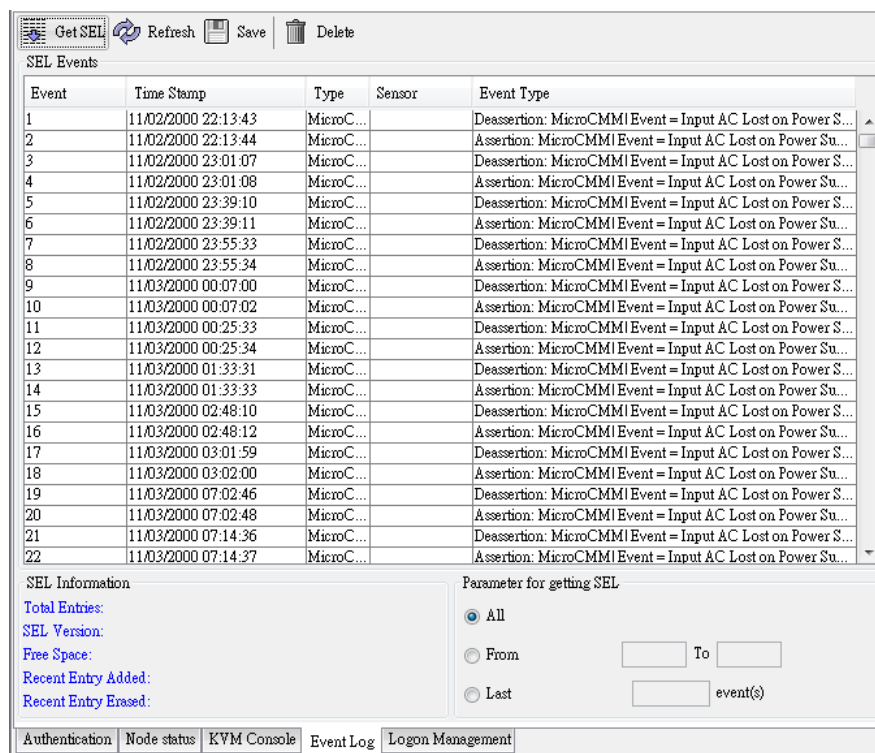


Figure 3-4

4 Event Log

MicroBlade logs the event in standard IPMI format. Click the Event Log tab to view the event log (Figure 4-1). The SEL information categories include Total Entries, SEL Version, Free Space, Recent Entry Added and Recent Entry Erased. In the Parameter for getting SEL section, select the parameters to get SEL. **All** is selected by default to get all SEL logs. You can also set the desired time range for retrieving SEL logs.



Click the **GET SEL** button ( Get SEL) on the top tool bar to start loading SEL.




The screenshot shows the 'Event Log' tab in the IPMIView application. At the top, there is a toolbar with buttons: 'Get SEL' (with a blue arrow icon), 'Refresh' (with a circular arrow icon), 'Save' (with a floppy disk icon), and 'Delete' (with a trash can icon). Below the toolbar is a table titled 'SEL Events' with columns: 'Event', 'Time Stamp', 'Type', 'Sensor', and 'Event Type'. The table contains 22 rows of event data. Below the table, there are two sections: 'SEL Information' on the left and 'Parameter for getting SEL' on the right. The 'SEL Information' section includes links for 'Total Entries:', 'SEL Version:', 'Free Space:', 'Recent Entry Added:', and 'Recent Entry Erased:'. The 'Parameter for getting SEL' section has three radio buttons: 'All' (selected), 'From' (with input fields for start and end times), and 'Last' (with an input field for the number of events). At the bottom of the window, there is a tabbed interface with tabs for 'Authentication', 'Node status', 'KVM Console', 'Event Log' (active), and 'Logon Management'.

Event	Time Stamp	Type	Sensor	Event Type
1	11/02/2000 22:13:43	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
2	11/02/2000 22:13:44	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
3	11/02/2000 23:01:07	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
4	11/02/2000 23:01:08	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
5	11/02/2000 23:39:10	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
6	11/02/2000 23:39:11	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
7	11/02/2000 23:55:33	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
8	11/02/2000 23:55:34	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
9	11/03/2000 00:07:00	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
10	11/03/2000 00:07:02	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
11	11/03/2000 00:25:33	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
12	11/03/2000 00:25:34	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
13	11/03/2000 01:33:31	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
14	11/03/2000 01:33:33	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
15	11/03/2000 02:48:10	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
16	11/03/2000 02:48:12	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
17	11/03/2000 03:01:59	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
18	11/03/2000 03:02:00	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
19	11/03/2000 07:02:46	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
20	11/03/2000 07:02:48	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...
21	11/03/2000 07:14:36	MicroC...		Deassertion: MicroCMMI Event = Input AC Lost on Power S...
22	11/03/2000 07:14:37	MicroC...		Assertion: MicroCMMI Event = Input AC Lost on Power Su...


Figure 4-1 Event Log

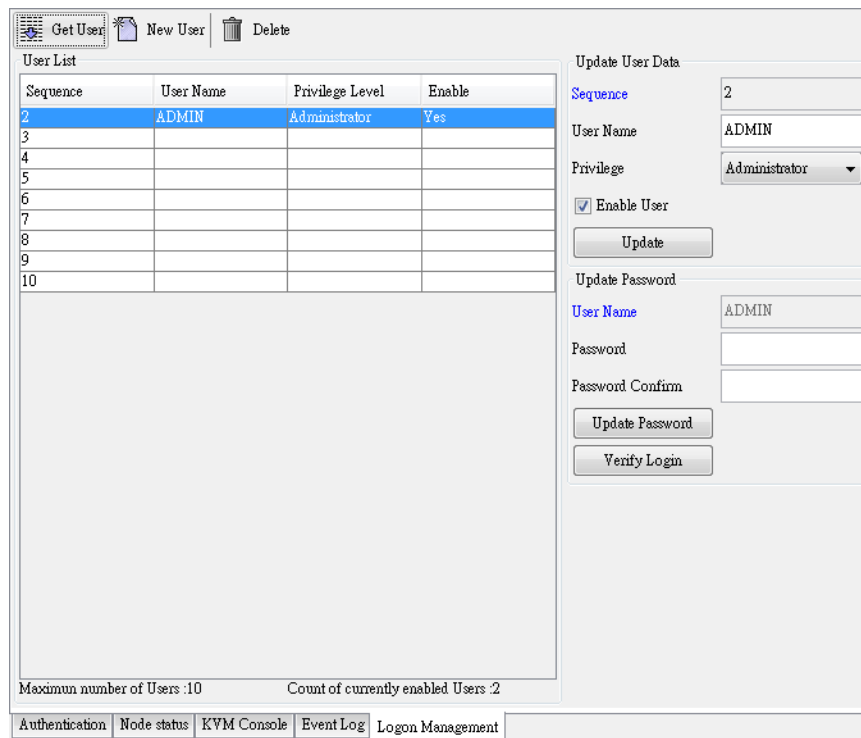
The SEL Events table shows the event information including the Event, Time Stamp, Type, Sensor and Event Type. The number of event entries listed can be up to 512. If SEL is full, click the **Save** ( Save) button to save it as a file for backup. Click the **Delete** button ( Delete) to delete all SEL events.



Note: The Refresh ( Refresh) button is only used to refresh the SEL information. To reload SEL, please click the **GET SEL** button.

5 Logon Management

Click the **Logon Management** tab at the bottom to access the management account information (Figure 5-1). You can create up to 63 user accounts. Click the **Get User** ( **Get User**) button to retrieve the current user list.



Sequence	User Name	Privilege Level	Enable
2	ADMIN	Administrator	Yes
3			
4			
5			
6			
7			
8			
9			
10			

Maximum number of Users :10 Count of currently enabled Users :2

Authentication Node status KVM Console Event Log **Logon Management**

Figure 5-1 Logon Management Tab

5.1 User Privileges

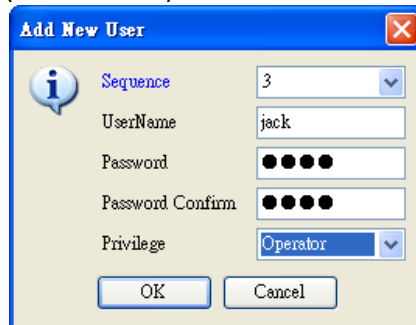
Different types of users have different privileges. In the Update User Data section, use the drop-down list to select the privilege level:

- **Administrator:** accesses all functions and adjusts management settings.
- **Operator:** accesses all functions without the logon management function.
- **User:** accesses partial functions. Unavailable functions will be hidden or disabled.
- **CallBack:** accesses less functions than User level.

If you wish to temporarily deny any user's attempt to log in the system, clear the **Enable User** checkbox. To grant privileges again, select this option.

5.2 Adding a New User

1. Click the **New User** button ( **New User**) to create a new user.

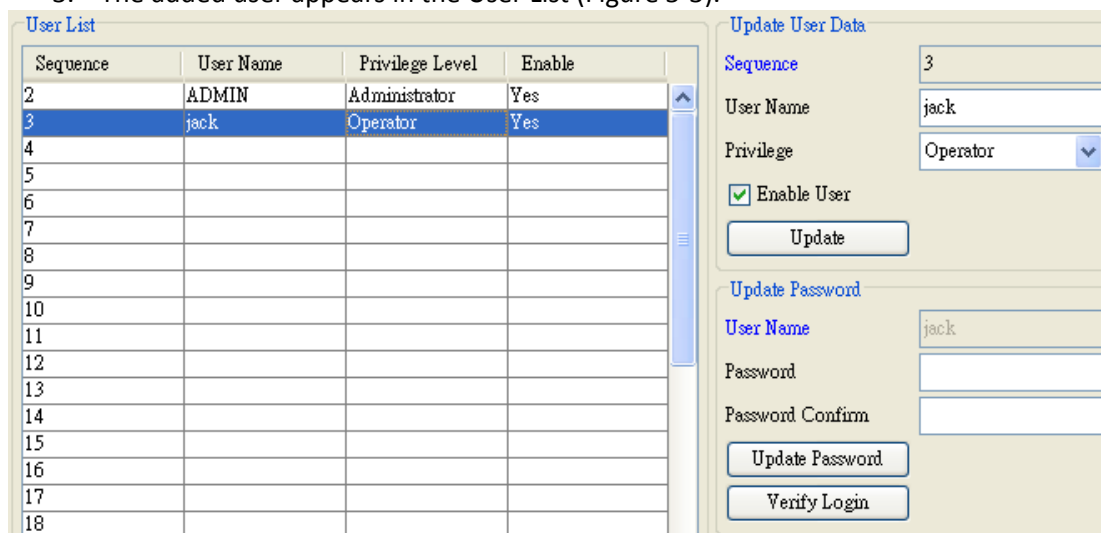


The 'Add New User' dialog box contains the following fields and controls:

- Sequence:** A drop-down menu with the value '3' selected.
- UserName:** A text input field containing 'jack'.
- Password:** A password input field with five dots.
- Password Confirm:** A password input field with five dots.
- Privilege:** A drop-down menu with 'Operator' selected.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

Figure 5-2 Add New User

2. In the dialog box (Figure 5-2), use the drop-down list to set the sequential number for the added user. Set the username, password and privilege level and then click OK.
3. The added user appears in the User List (Figure 5-3).



The 'User List' panel displays a table with the following data:

Sequence	User Name	Privilege Level	Enable
2	ADMIN	Administrator	Yes
3	jack	Operator	Yes
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			

The 'Update User Data' panel on the right contains the following fields and controls:


- Sequence:** A drop-down menu with the value '3' selected.
- User Name:** A text input field containing 'jack'.
- Privilege:** A drop-down menu with 'Operator' selected.
- Enable User:** A checked checkbox.
- Buttons:** 'Update' button.

The 'Update Password' panel on the right contains the following fields and controls:

- User Name:** A text input field containing 'jack'.
- Password:** A password input field.
- Password Confirm:** A password input field.
- Buttons:** 'Update Password' and 'Verify Login' buttons.

Figure 5-3

5.3 Deleting a User

To delete a user with administrator privileges, select the desired user in the User List and click the **Delete** button ( **Delete**).

5.4 Updaing User Data

To update user data, select a user in the User List (Figure 5-1). The user data will be shown in the right panel.

1. In the Update User Data section, update the username and privilege level.
2. Click the the Enable User checkbox to enable or leave this checkbox blank to disable.
3. In the Update Password area, type and confirm your new password, and then click **Update Password**.
4. Click **Verify Login** to check if the password update is successful. The dialog box appears.

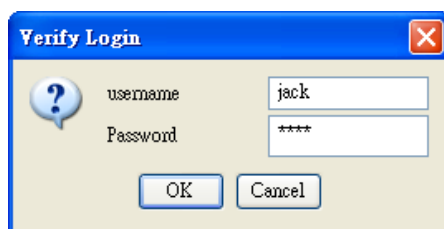


Figure 5-4

5. Type the username and password you want to verify then click **OK**. If both username and password are verified, a message "Login successfully" appears.

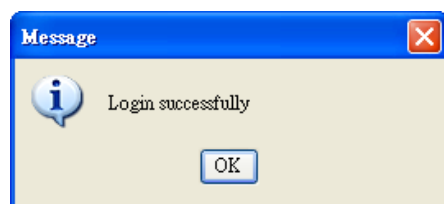


Figure 5-5

If the verification fails, a message "Login failed" appears.

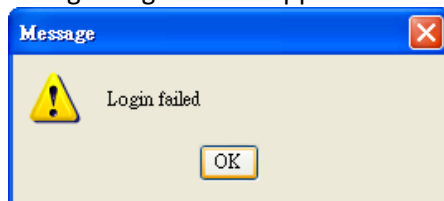


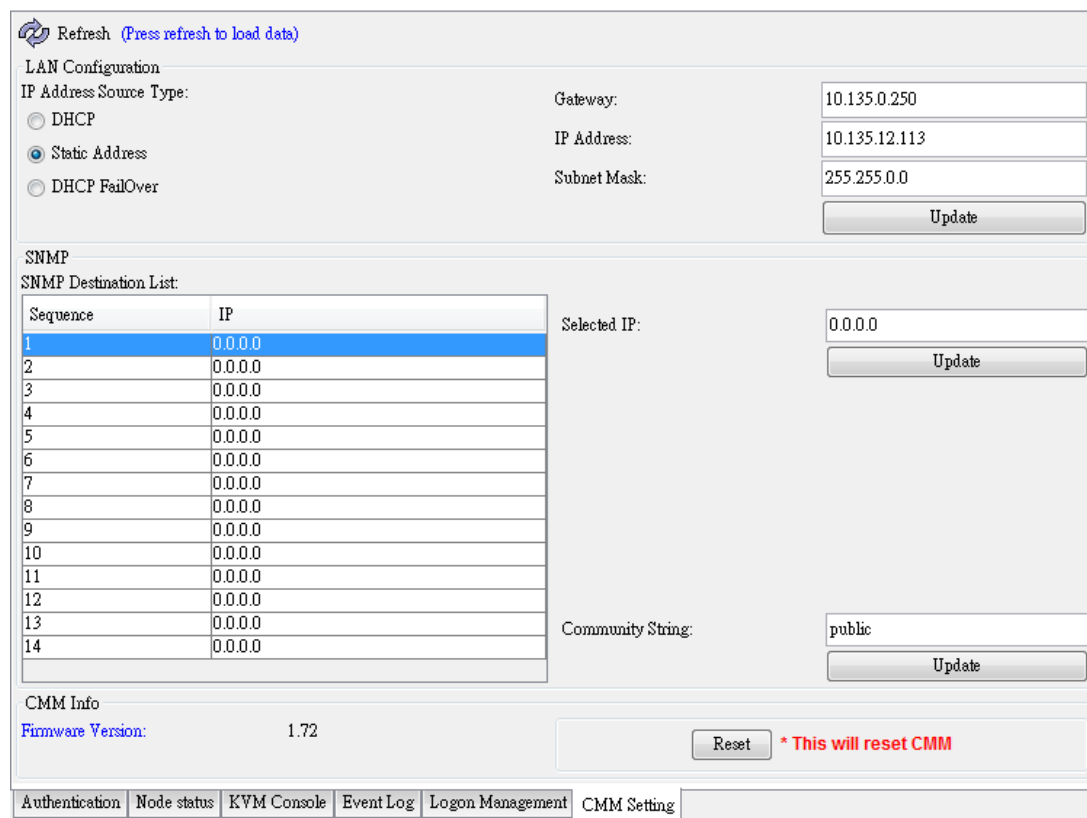
Figure 5-6

6 CMM Setting

The CMM Setting tab provides the LAN configuration, SNMP setting and CMM information (Figure 6-1). The LAN Configuration shows the current CMM IP address, Gateway and Subnet Mask. The CMM IP type can be set as a DHCP, static address or DHCP failover.

The SNMP setting lets you specify the SNMP destination address to receive the SNMP trap from the CMM. Once the CMM detects a failure, it logs into SEL and immediately sends the SNMP trap to the destinations. Update the SNMP destinations by selecting from the SNMP list. The selected SNMP will then appear in the text field of the selected IP. Update the SNMP destination by pressing the Update Button. The Community String of the SNMP trap also can be updated. For more information on receiving traps, please refer to the “Trap Receiver” chapter in the IPMIView user’s guide.

The CMM Info shows the firmware version. A Reset button can be used to reset the CMM. You may also see this information and commands in the CMM module via the Blade System tab.



Refresh (Press refresh to load data)

LAN Configuration

IP Address Source Type:

☐ DHCP

☒ Static Address

☐ DHCP FailOver

Gateway: 10.135.0.250

IP Address: 10.135.12.113

Subnet Mask: 255.255.0.0

Update

SNMP

SNMP Destination List:

Sequence	IP
1	0.0.0.0
2	0.0.0.0
3	0.0.0.0
4	0.0.0.0
5	0.0.0.0
6	0.0.0.0
7	0.0.0.0
8	0.0.0.0
9	0.0.0.0
10	0.0.0.0
11	0.0.0.0
12	0.0.0.0
13	0.0.0.0
14	0.0.0.0

Selected IP: 0.0.0.0

Update

Community String: public

Update

CMM Info

Firmware Version: 1.72

Reset * This will reset CMM

Authentication | Node status | KVM Console | Event Log | Logon Management | CMM Setting

Figure 6-1

Contacting Supermicro

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