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1 Overview

IPMIView (IPMI-Over-LAN) is a management software program based on the IPMI specification Reversion 1.5 - 2.0. IPMIView sends IPMI messages to and from the BMC (Base Management Card) on a host system at a remote location. IPMI messages are encapsulated in RMCP (Remote Management Control Protocol) packets called “datagrams.” This method is also referred to as “IPMI-over-LAN.”

According to the Distributed Management Task Force (DMTF) specification, RMCP is used for system management in a pre-OS or an OS-absent environment. RMCP is a simple request-response protocol that can be delivered using UDP (User Datagram Protocol) datagrams. IPMI-over-LAN uses version 1 of the RMCP protocol and packet format. An RMCP packet is transmitted via an IP (Internet Protocol) network, which allows system managers to manage their IPMI-enabled systems over the Internet. In a private LAN network, this is a basic feature. IPMI uses the same UDP port number (623 in decimal) as the ASF (Alert Standard Forum) protocol. If the managed system is protected by a firewall, UDP port 623 must be opened.

In Supermicro’s IPMI solution, a BMC (Baseboard Management Controller) shares the LAN1 NIC on the mainboard. (If there are more than one LAN ports on the mainboard, LAN1 is the one closest to the Keyboard/Mouse port.) The NIC will re-route the IPMI packet to the BMC instead of forwarding it to the upper layer of the network protocol stacks as other protocol packets do.

IPMIView V2.0 covers Supermicro’s BMCs for both IPMI v1.5 and IPMI v2.0. However, due to design changes, some functions may not be available for IPMI v1.5, while others might no longer be available for IPMI v2.0. IPMIView will automatically hide any functions that are not available based on the BMC version used in the system.
2 System Management

Figure 2-1

- **Menu Bar**: contains functions that allow you to add/delete systems or groups and save configurations.

- **Toolbar**: contains functions that allow you to execute commands quickly. Click the icons on the toolbar to add a new system, save the current configuration settings, to discover IPMI devices, to access group management, to discontinue the IPMIView section and to access the help menus. See Figure 2-2 for details.

- **Logo**: Click the Logo icon to visit Supermicro’s website.

- **IPMI Sorting**: This allows you to sort devices in ascending/descending order via the online format, or in their original sequence.

- **System List**: This lists the computers managed by the BMC Controller.

- **Group Management**: This allows the user to manage system groups, including creating/adding new accounts, deleting accounts and updating group information.

- **Group List**: This lists the computer groups managed by the BMC for better management.
• **Viewing Window**: This shows detailed information including Login, IPMI Device, Event Log, Sensors, BMC Settings, and the status of the IPMIView firmware.

• **System View Sessions**: IPMIView can manage up to 20 systems at any given time. The systems that are currently managed by the BMC are indicated in the System View window.

• **Bottom Toolbar**: This toolbar contains function tabs that allow you to execute commands quickly. The tabs allow you to access the following submenus: Login, Event Log, Sensors, IPMI Device, BMC Setting, Users, Text Console, and KVM Console.

As shown in Figure 2-1, there are several components in the IPMIView window (Figure 2-2):

![Figure 2-2](image)

• **ToolBar (Top)**

The toolbar provides you with direct access to the features that are used frequently (as shown in Figure 2-3). You are able to switch between server- and group- management. The following toolbar shows the items that are currently available for user configuration under BMC management.
• Adding a new system

Click **File > New > System** to add a new system to the IPMI connection (as shown in Figure 2-4). An “Add a new system...” dialog box will display as shown in Figure 2-5.
In the “Add a new system” dialog box, enter the System Name for the system to be managed by the BMC, its IP address, and its description. Then click OK.

- Adding a new group
For better system management, the manager may group systems into different groups. A system may be included in multiple groups. The default group is the “IPMI Domain.” All systems under BMC management belong to the IPMI Domain even if they are also added to other groups.

Click File> New...> Group to add a new group to the IPMI connection.

An “Add a new group” dialog box will display as shown in Figure 2-6.

In the “Add a new group” dialog box, enter the Group Name and its description. Then click OK.

- Discover IPMI Device
IPMIView offers a feature that will detect all devices or systems currently connected to the network. The user may specify a Network IP address range and network Mask, then click Detect or Start to search for any IPMI devices or systems that are connected to the IPMI 1.5 or IPMI 2.0 connections as shown in Figure 2-7. Click Exit to discontinue this process.
• **Reload Configuration**
  From the pull-down menu, click **File > Reload Configuration** to load the configuration settings that were previously saved.

• **Save Configuration**
  From the pull-down menu, click **File > Save Configuration** to save the current configuration settings.

• **Update Firmware**
  From the pull-down menu, click **File > Update Firmware**, and select the system you wish to update from the IPMI Domain list on the left side of the window. A Confirmation dialogue box will appear. Click **OK** to update the IPMI Firmware. Click **Cancel** to discontinue this process.

  From the pull-down menu, click **File > Save Configuration** to save the current IPMIView configuration settings.

• **Language**
  From the pull-down menu, click **File > Language** to activate a Language submenu. From the submenu, you can select Chinese (Traditional), Chinese (Simplified) or English as your IPMI language setting.

---

**Note:** There may be Chinese display issues in some Linux systems that lack Chinese fonts for JVM. You can install Chinese fonts, e.g., SimSun.ttf, and then type the following commands: `mkfontscale, mkfontdir` and `fc-cache -fv` at the font path to fix the issue.
• **Exit**

From the pull-down menu, click **File** > **Exit** or press <Alt-F4> to exit IPMIView.

• **Modify System**

Select a system in the System Window you want to modify and click **Edit** > **Modify System** to modify it from the pull-down menu as shown in Figure 2-8.

You can also right click on a system in the System Window and select **Modify** in the pop-up menu to modify it.

• **Modify Group**

Select a group in the Group Window you want to modify and click **Edit** > **Modify...** > **Group** from the pull-down menu shown in Figure 2-8 to modify it.

You can also right-click a group in the Group Window and select **Modify** in the pop-up menu to modify it.

![Image of IPMIView interface](image)

**Figure 2-8**

• **Delete System**

Select a system in the System Window you want to delete and click **Edit** > **Delete System** from the pull-down menu as shown in Figure 2-8 to delete it.

You can also right click on a system in the System Window, and select **Delete** in the pop-up menu to delete it.

• **Delete Group**

Select a group in the System Window you want to delete and click **Edit** > **Delete Group** from the pull-down menu to delete it as shown in Figure 2-8.

You can also right click a group in the System Window, and select **Delete** in the pop-up menu to delete it.
• IPMI Security

From the pull-down menu, click **Edit** > **IPMI Security** to activate the IPMI Security dialogue box. Check **Auto Detection** for IPMIView to automatically check the current IPMI status. Check the **For Advanced User** box to select the following protocols as shown in Figure 2-9.

Hardware: BMCB, Firmware: IPMI 1.5:

Hardware: BMC2, Firmware: IPMI 2.0 (non-RMCP+):

Hardware: BMC2, Firmware: IPMI 2.0 (Standard RMCP+).

Check the **Encrypt** box to use encryption supported by the IPMI 2.0 Standard RMCP+. All packets transmitted from IPMIView to the BMC system management will be encrypted.

![IPMI Protocol dialogue box](image)

Figure 2-9

• Join a group

Select a group in the Group window, a system in the System Window, and click **Edit** > **Join** from the pull-down menu to include (to join) this system into the group as shown in Figure 2-8.

• Disjoin a System or a Group

Double click the group from which you want to disjoin a system. The systems that are included in the group will appear in the System Window. Then, select the system you want to disjoin from the group, and click **Edit** > **Disjoin** from the pull-down menu shown in Figure 2-8. You can also select a group from the Groups list and click **Edit** > **Disjoin** to remove it from the IPMI groups.

You can also right click the selected system, and select **Disjoin** in the pop-up menu to remove it from the group.
• **Refresh**

Double-click the group from which you want to disjoin a system. The systems that are included in the group will appear in the System Window. Select the system you want to refresh, and click **Edit > Refresh** from the pull-down menu to refresh the system as shown in Figure 2-8.

• **Timeout**

The timeout setting is shown in Figure 2-10. Timeout is the period for IPMIView to wait for a response after sending a command to a managed system. If a response is not received from the managed system in the timeout period, IPMIView will resend the command to managed system again. You may specify the timeout value (in seconds) to get a quicker response from the managed system. You can also specify the number of times that IPMIView will resend the command.

![Setting](image)

**Figure 2-10**

• **Section**

IPMIView will display the IP address(es) currently connected to the network when you click **Section** from the toolbar. You can disconnect the IPMI connection from a system currently connected to the network by clicking **Closing** (the IP Address).

![Section](image)

**Figure 2-11**

• **IPMIView Management**
IPMIView allows you to manage your server or your network group by selecting Manage > Server/Group from the pull-down menu as shown in Figure 2-11.

In addition, you can also configure Group Login Settings by selecting Setting from a pull-down menu under the Manage tab. A dialog box will appear, prompting you for the Login ID and Password. Once enter the values in these fields, click OK to access the page and configure the settings. Please note that this feature is available for the system administrator only.

- **Help**

Select About to display the information on the systems connected to the network.
3 Login

- Login

Click the **Login** tab on the bottom toolbar as shown in Figure 3-1. A login screen along with some information about the managed system will appear in the Viewing Window. Enter the login ID and password, and click the **Login** button to log in. When login is successful, the connection information will be shown at the bottom. The Login button is grayed (disabled), and the Logout button as well as other available management functions will be enabled as shown in Figure 3-2.

![Figure 3-1](image1.png)

![Figure 3-2](image2.png)
In IPMIView, an MD5 algorithm will encrypt the password when it is transmitted through the network. (If you are connecting to the IPMI 2.0 RMCP+, all the data will be transmitted by an encrypted algorithm.) Once the password is confirmed, IPMIView will show a CONNECTED symbol, and all available function pages will be shown as in Figure 3-2. If the password is invalid, a message will be displayed in the Status Area that reads, “Unable to activate a session, please check ID and Password.” and a Break symbol will be shown (see Figure 3-3).

In order to reduce overhead on the managed system, all pages will not be refreshed automatically. The user must refresh the pages manually as needed.

After logging in, the IPMIView main window will display as shown in Figure 3-2. A tool bar will display on the bottom of the screen for your convenience.

- **Bottom ToolBar**

As shown in Figure 2-4 below, this toolbar contains function tabs to allow you to execute commands quickly. The tabs allow you to access the following submenus: Login, Event Log, Sensors, IPMI Device, BMC Setting, Users, Text Console and KVM Console.
Figure 3-4
4 Event Log

After you have logged into a system, the screen as shown in Figure 4-1 will display. Click the Event Log tab on the bottom toolbar to activate the Event Log screen as shown in Figure 4-2.
• Health Event Log
  o **All**: Click this radio button to select all health events.
  o **From...to**: Click this radio box to select a portion of health events.
  o **Get**: Click this tab to get the event health logs.
  o **Export**: Click this tab to export health event logs to a file.
  o **Clear All Entries**: Click this tab to clear all health event log entries.
  o **Current SEL Device Timestamp**: This item displays the timestamp of the current SEL device.
    To learn about the rules, click the information icon.
  o **Refresh**: Click this tab to refresh this page.

• Maintenance Event Log
  o **Export**: Click this tab to export maintenance event logs to a file.
  o **Clear**: Click this tab to clear all maintenance event log entries.
5 Sensors

This feature displays the status of each sensor used to monitor system health as shown in Figure 5-1.

- **Fans**: This window displays fan status.
- **Voltages**: This window displays voltage readings for various devices.
- **Temperatures**: This window displays temperature readings for various devices.
- **Sensors**: This window displays the devices being monitored.
- **PSU**: This window includes three tabs: PMBus, FRU, BBP (Battery Backup Power). Click each tab to view the information.
- **Refresh Every X seconds**: Enter the number of seconds for the system to refresh.
- **Refresh Now**: Click this button to refresh the Sensors page immediately.
- **Save Layout**: Click this button to save the current layout setting.
- **Hide inactive item**: Check this box to hide inactive items.
- **Show History**: Check this box to display the sensor records.
There are other sensors that is not exist in common boards (ex. discrete sensors), IPMIView will show them accordingly. However since they are not fixed, history and layout function are not supported for those sensors.

### 5.1 Discharging Battery

1. The battery can be automatically or manually discharged. In the PSU dialog box (see Figure 5-1), click the BBP tab.

![Figure 5-2](image)

2. Click the top right field BBP2. A dialog box appears.

![Figure 5-3](image)

3. Select **Auto** and type desired number of days for the battery to discharge automatically, or select **User** to manually discharge the battery. Click **Update** to start.
6 IPMI Devices

Click the IPMI Device tab of the IPMIView management session in the Viewing Window (shown in Figure 6-1) to display the information and functionality of the BMC firmware installed in the system.

![IPMIView Management Session](image)

**Figure 6-1**

- **Device Information**
  This shows the revision levels of the BMC and IPMI firmware. Also provide Board Model information.

- **Chassis Power Status**
  This shows the power state of the managed system. If the managed system is in a power-off state, the green light will be off. It will be updated automatically every five seconds.

- **Graceful Power Control (Administrator and Operator only)**
  Graceful shutdown will inform the OS running on the managed system to shutdown within a specified time. When the OS running on the managed system receives a graceful shutdown request, it will start to shutdown system. This behavior is via ACPI by emulating a fatal over temperature.
• **Graceful Shutdown**: This feature has the same function as “shutdown” in the Windows. Using this feature will cause the managed system to enter the S5 state.

• **Power On Icon**: Click on the Power-On icon to power on or power off the device.

• **Chassis Power Control (Administrator and Operator only)**
  This feature is used to manually control the power state of the chassis of a managed system. When the BMC receives the power control command from the chassis, it will have direct control over the power button or the reset button of a system.

• **Power Down**: This feature will power off a managed system as it would when the Power-Down button of the chassis is pressed.

• **Power Up**: This feature will turn on the power of a managed system as it would when the Power-Up button of the chassis is pressed.

• **Power Cycle**: This feature will turn off the power of a managed system for a few seconds and then turn on the power of the system again.

• **Reset**: This feature resets a managed system as it would when the Reset button of the chassis is pressed.

• **BMC Cold Reset (Administrator only)**
  Clicking the Cold Reset button allows you to reset the BMC. After confirming the reset of the BMC, the session will be terminated immediately. The user has to close this session manually. This feature is rarely used. It is only used for an event when you suspect a system malfunction for example.

• **UID (Unit Identifier) LED**
  o **Blink UID LED**: Click this table for the UID LED to blink when the unit in question is identified.

• **Refresh**
  Click this tab to refresh this page.

• **Fan Speed Mode**
  Select the desired fan speed mode and click **Update**. Note that available speed options vary.
7 BMC Settings
(Available for the Administrator only)

Click the BMC Setting tab of the IPMIView management session in the Viewing Window (as shown in Figure 7-1) to display detailed information on the BMC LAN Configuration, SNMP trap configuration and the serial port status.

- **BMC LAN Configuration**

  This feature displays the IP address, the LAN MAC, the Gateway IP, the Gateway MAC and the Subnet Mask of the BMC and allows you to modify these settings.

  To configure the VLAN Tag setting, you can enable the VLAN (Virtual LAN) Tag setting by clicking the checkbox of Enable VLAN Tagging on the right, and entering the value in the VLAN Tag field.

  **Note:** Please make sure both MAC addresses of LAN and gateway for the BMC are correct before clicking the **Update** button. Be especially careful when you enter the MAC address of LAN. If the entered address is incorrect, the connection between IPMIView and the system will no longer be established.
• **SNMP**
This displays the SNMP trap configuration of the system that needs to receive the SNMP traps generated by the BMC to allow you to modify the settings. To change the configuration on the BMC, enter the SNMP community name in the Community text field, and enter the IP address as well as the MAC address in the SNMP Trap Receivers table in the SNMP group. Then, click the **Update** button.

The SNMP Trap may have multiple destinations. When any critical error occurs, an SNMP trap packet will be sent to all receivers in the list. To remove an SNMP receiver, you may change both IP and MAC addresses to 0.0.0.0 and 00:00:00:00:00:00 respectively. Then, click **Update**.

For a system to receive the SNMP traps, you must install and run an SNMP trap receiver program. The managed system will send out an SNMP trap packet to all receivers when an event occurs. If an SNMP trap receiver is not running, the trap packet is discarded, and cannot be queued anywhere.

• **RS232 / MODEM (available for IPMI 1.5 only)**
This displays the configuration of the RS232 interface on the BMC. It is used to initialize the RS232 port and the installed modem, if any. The RS232 port is the box-header (Figure 7-2) on the BMC, and a dedicated serial port.
  
  o **Baud Rate**: It is the baud rate for serial connections, which will not affect paging settings.
  
  o **Modem Init String**: This is the modem initialization string for serial link connections, which will not affect paging settings.

Figure 7-2

• **LAN Interface**
- **Dedicated**: Click this radio box to use the IPMI-Dedicated LAN as the default LAN connection.
- **Onboard LAN1**: Click this radio box to use the onboard LAN port 1 as the default LAN connection.
- **Failover**: Click this radio box to enable Failover support.
- **Update**: Click this tab to update LAN connection status.
- **Refresh**: Click this tab to refresh the page.
8 Users

Figure 8-1 (For IPMI 2.0)

Figure 8-2 (For IPMI 1.5)
Click the Users tab of the IPMIView management session in the Viewing Window (as shown in Figure 8-1 and 8-2) to display detailed information on the Users management, and paging severity thresholds for IPMI 1.5.

We strongly recommend that you change the password immediately for security reasons.

- USERS
  - User Name
    IPMIView allows you to add or delete a user, to change a user’s password, to set and update user privilege settings by clicking the appropriate tabs.
  - Privilege
    This feature allows you to set and update privilege level for a user or delete a user from the list. There are six privilege levels, Callback, User, Operator, Administrator, OEM, and No Access. Only the first four privileges are supported. Privilege Levels determine which IPMI commands a user can execute over a channel. Privilege Limits set the maximum privilege level that a user is allowed to operate at. A user is granted certain privileges for each channel, and the user can operate at a privilege level that is granted. Click Update Privilege to change the privilege level setting for a user.

### Group Privilege Levels

<table>
<thead>
<tr>
<th>Callback</th>
<th>This may be the lowest privilege level. Only those commands that are used to initiate a Callback are allowed. (Available for IPMI 1.5 only.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>Only the basic commands are allowed. These commands are used to read and retrieve data, to modify BMC configuration settings, or to write data to the BMC or other controllers. Actions such as resets, power on/off, and watchdog activation are not allowed.</td>
</tr>
<tr>
<td>Operator</td>
<td>All BMC commands are allowed, except for commands that can modify out-of-band interface settings. For example, the Operator is not allowed to disable individual channels or change a user’s access privileges.</td>
</tr>
<tr>
<td>Administrator</td>
<td>All BMC commands are allowed, including modifying commands. An Administrator is allowed to execute configuration commands that disable the channel over which the Administrator is communicating.</td>
</tr>
</tbody>
</table>

- SOL (Serial-Over-LAN)
This feature allows the user to configure SOL settings. Click **Enable** to enable SOL support. Click **Update SOL Privilege** to update a user’s SOL privilege level.

Click **Paging Setting** to set the parameters for an individual user (Figure 8-3). There are two types of paging services: Numeric paging and alphanumeric paging. To use a paging service, a modem must be connected to the RS232 connector on the BMC (Figure 7-2).

![Paging Setting](image)

**Figure 8-3**

- **FRU (for IPMI 2.0 only)**

This provides useful information on the board and the product, including the serial number, part number, and the components of the motherboard. Click the **Update FRU** tab to update board information and product information, including information on the manufacturer, the name of firmware, the serial number/ the part number of the motherboard, and the part/model number of the BMC firmware, the version and the serial of the IPMI/BMC firmware. In some RoT system, fru data is considered as critical data. When there is an fru entry updated, it will be further backup to nand flash. Due to the backup action, writing fru data to system may take much longer in RoT platform than other platforms.

- **PAGING/SEVERITY (for IPMI 1.5 only)**

Use paging severity settings to determine when a user will be notified of an entry of the system event log (SEL).

The following settings are available for each group:
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>When this setting is selected, user notification for this group is disabled.</td>
</tr>
<tr>
<td>Warning</td>
<td>When this setting is selected, the RMC will notify the user when SEL entries for the group exceed the warning thresholds.</td>
</tr>
<tr>
<td>Critical</td>
<td>When this setting is selected, the RMC will notify the user when SEL entries for the group exceed the critical thresholds.</td>
</tr>
<tr>
<td>All</td>
<td>When this is selected, the RMC will notify the user of all entries of the SEL events for the group.</td>
</tr>
</tbody>
</table>

All warning and critical thresholds are predefined by Supermicro based on hardware design.
Click the **Text Console** tab on the bottom tool box (Figure 9-1) to enable Text Console Redirection support, which will allow you to control a remote system from a text mode console. Click the **Start** button to start the text console redirection. Click the **Stop** button to stop the text console.

- **BMC for IPMI 1.5**

Console Redirection is not supported by the IPMI specification V1.5. Supermicro provides this useful feature for a manager to control the managed system from a remote location. When a managed system is booting up during the POST routine, and no other software application are available for you so that you can gain control over console redirection, IPMIView provides you with this valuable feature.
Console Redirection will redirect the monitor of a managed system for IPMIView use and allows you to send the key codes to the managed system.

When a managed system changes its video mode from Text Mode to Graphics Mode, a termination notice will be sent to IPMIView to terminate the console redirection. Text Console Redirection only works with the text mode.

**Important Note:** Console Redirection can cast a very heavy load on a managed system. It will redirect the whole monitor to the manager’s system, and it will slow down the managed system significantly. We suggest that you use this function only when you absolutely need it. For other applications, a proper console redirection software application (pcAnywhere, Symantec Corporation) or a remote login protocol (telnet) is recommended. When you finish your remote operation, click **Stop** to terminate console redirection to take the load off the managed system.

- **BMC for IPMI 2.0**

Serial-Over-LAN (SOL) was designed to support Text Console Redirection based on the IPMI specification V2.0. This function performs better in IPMI 2.0 than in IPMI 1.5. The Text mode console is supported by the Windows 2003, even when the OS is running. To support Text Console Redirection on the Windows 2003, Special Administration Console (SAC) must be enabled. To enable SAC, follow these steps:

1. Enable Console Redirection in the BIOS, and set it to COM 2 (or COM B)
2. Modify boot.ini in C:\. Boot.ini is a hidden file. An example of boot.ini is listed below.

```
[boot loader]
redirect=com2
redirectbaudrate=19200
timeout=30
default=multi(0)disk(0)rdisk(0)partition(1)\WINDOWS
[operating systems]
multi(0)disk(0)rdisk(0)partition(1)\WINDOWS="Windows Server 2003, Standard" /fastdetect
```

/redirect
To enable Text Console Redirection support on a Linux Platform:

1. Host A with the IPMI BMC installed (for the Linux Platform):

   a) BIOS POST:

      (i) Enable "Console Redirection" in BIOS Setup. For example, COM2 / 19.2Kbps / 8N1

      (ii) Disable "Enable Console Redirection after POST" in the BIOS setup.

   b) Boot Loader:

      (i) For GRUB, add the following TWO lines into /boot/grub/grub.conf, but comment out "splashimage=(hd0,0)/grub/splash.xpm.gz"

             serial --unit=1 --speed=19200 --word=8 --parity=no --stop=1
             terminal --timeout=10 serial console
             #splashimage=(hd0,0)/grub/splash.xpm.gz

      (ii) Then add "serial console=ttyS1,19200n8" to the end of kernel /vmlinuz in

             /boot/grub/grub.conf.

             For example:

             kernel /vmlinuz-2.6.5-1.358smp ro root=LABEL=/ rhgb quiet serial console=ttyS1,19200n8

             This will result in all boot messages being output to the console ttyS1, but you will not see. All
             these boot messages on the local console until the login message prompts.

   c) LINUX OS:

      (i) Add the following line into /etc/inittab.

             s0:2345:respawn:/sbin/agetty ttyS1 19200

      (ii) Edit /etc/securetty and add ttyS1

2. Host B with IPMIView installed:

   a) Install and run IPMIView.

   b) Log in Host A with the IPMI BMC installed as Admin.

   c) Start Console Redirection in IPMIView immediately after the Host A reboots.

   You will see the BIOS POST, the boot loader, and the Linux OS messages and prompts.
10 KVM Console (KVM-Over-IP for Video Redirection)

KVM Console Redirection is a new feature included in the Supermicro Intelligent Management (SIM) Module. If Video Console Redirection support is enabled, the remote screen will be redirected to IPMIView. BIOS POST, BIOS settings, DOS, Windows or Linux OS screens can all be redirected to IPMIView. KVM Console will be disconnected if user perform FW update or BIOS update. Administrative privileges are required (Linux: sudo, Windows: run as administartor) to perform virtual storage mounting function.

Click the Launch KVM Console tab to launch KVM console redirection.

Figure 10-1 shows sample screenshots of Video Console redirection. The screen of a remote managed system will be redirected to IPMIView. You will see the screen of the remote system just as if you were sitting in front of the system.
Figure 10-1-1
Figure 10-1-2

Figure 10-1-3
Figure 10-1-4
Toolbar

There are several tool buttons that can be used for video console as shown in Figure 10-2.

![Toolbar Diagram]

**Start Video Redirection:**
This button is used to start video redirection. IPMIView will automatically start the video redirection when you click the Video console tab.

**Stop Video Redirection:**
This button is used to stop video redirection. To stop video redirection, press this button again to stop it. Please note that the drive redirection will continue to work when it is enabled.

**Full Screen:**
This button is used to maximize the size of the remote video screen on the local computer display. You may press <Alt + Enter> to return to the original mode. Please refer to Figure 10-3.
Screen Capture:
This button is used to capture the screenshots of the remote managed systems. You will see a file-save dialog box with a preview image. Select the directory and filename to save it. The file format can be PNG or JPG.

Quick Shot:
This button is used to capture quick screenshots. You will need to first specify a directory where you want to store quick shot images. You will see the quick shot images in the quick shot panel. Please refer to Figure 10-4.
Open or Close a Quick Shot Panel:
This button is a switch used for opening or closing the quick shot panel. Double-click the image in this panel to show a full-size window for viewing.

Zoom In:
This button is used for zooming in the screen (up to 300%). Please refer to Figure 10-5.
Zoom Out:

This button is used for zooming out. The maximum zoom out percentage is 10%. Please refer to Figure 10-6.

Select percentage for Scaling Screen:

This combo box allows you to select the setting of screen scaling, either 10%, 25%, 50%, 75%, 100%, 200%, 250% or 300%. An additional selection allows you to scale to fit with the IPMIView window size.

Send Ctrl + Alt + Del to Remote:

This button is used to send the <Ctrl + Alt + Del > key combination to the remote system. It is useful when the remote system is running in the BIOS, DOS or Windows environment.

Auto Adjust Screen:

This button is used to adjust the screen automatically. Click this button if it’s difficult for you to see the whole screen.

Options:

You can select more options here. The list of options is listed below.

- **Monitor Only**: Use this feature to display the remote screen only. The keyboard and mouse will be disabled.
- **Readability Filter**: This item uses algorithm to improve screen display. This will allow you to see the text content easier when you scale the screen.
- **Local Cursor**: Use this to change local cursor settings.
- **Chat Window**: This feature allows the user to chat with each other via the IPMI connection. Please refer to Figure 10-7.
Figure 10-7 Chat Window

- **Video Settings:** This feature allows you to configure the advanced video settings. Please refer to Figure 10-8.

Figure 10-8 Video Settings

- **Refresh Video:** This feature allows you to refresh the video screen.
- **Soft Keyboard:** A virtual keyboard is provided for easy input. It also provides localized keyboard mapping. Please refer to Figure 10-9.

Figure 10-9 Soft Keyboard

- **Local Keyboard:** This feature allows you to set local keyboard mapping settings.
- **Encoding:** This feature supports encoding for the video screen. The options for encoding are “Predefined”, “Compression” and “Color Depth”.

-----

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Status Bar

Figure 10-10 displays the status bar for the video redirection.

Figure 10-10

Message:
This section displays tool tip information and the video redirection status.

This section indicates the number of the frames displayed per second, and Input (Kbytes per second)/Output (bytes per second).

Share Mode:
This icon indicates the status of screen-sharing on the remote system. If there is only one user using the video redirection of a remote system, the icon will look like . If two or more users using the video redirection of the same remote system, the icon will look like .

Monitor Mode:
This icon displays the status of monitor mode. When the display looks like , it indicates that you can use the local keyboard and the mouse to control the remote screen. When the display looks like , it indicates that the local keyboard and the mouse are not available. If you select the option “monitor only”, the keyboard and mouse will be disabled.
11 Virtual Media

The Supermicro Intelligent Management (SIM) Module provides a Virtual Media feature, which includes a Virtual USB Floppy, a CD-ROM image and Drive Redirection.

Figure 11-1 shows the Virtual Media GUI. The Virtual Media Status section displays the current virtual device status. There are two virtual drives available.

Floppy Image Upload allows the user to upload a floppy image as "floppy" located at the remote host. The floppy image uploaded shall be in the binary format with a maximum size of 1.44MB. It will be loaded to the Supermicro SIM card and emulated to the host as a USB device.

The CD-ROM Image on the “Windows Share” allows the user to configure Windows-Share settings. It allows you to decide how you want to share the data stored in your shared folder with the users on the remote host system.

Drive Redirection makes local drives accessible to other users via console redirection. This function allows you to share your local drives (floppy, CD-ROM and HDDs) with users on remote systems.
Floppy Image Upload

As shown in Figure 11-2, click Open File to select the file that you wish to upload to a specific host drive of your choice. Click Upload to upload the floppy image. Please wait for the uploading process to complete. The virtual floppy will be activated after the floppy image is uploaded.

![Floppy Image Upload](image)

Figure 11-2

CD-ROM Image on Windows Share

Please refer to Figure 11-3 for the following items.

- **Drive**: Specify the drive that you want the remote host to share.
- **Share Host**: Enter the IP Address or the name of the system you wish to share data with via “Windows Share”.
- **Share Name**: Enter the name of the shared data in the remote host.
- **Path to Image**: Enter the location of the source file that you wish to share via “Windows Share”.
- **User/Password (Optional)**: Enter the user and password for the person to access the data that you want to share, and click the **Set** button to enter your selections as shown in Figure 11-3.

![CD-ROM Image on Windows Share](image)

Figure 11-3
Drive Redirection
As shown in Figure 11-4, Drive Redirection supports both local drive and the ISO file. When you click the Connect Drive button, a dialog box (Figure 11-5) will show up.

- **Local Drive List:** This box displays a list of local drives available for remote access. Select from the list a local drive that you want to make accessible for a remote server.
- **Refresh List:** Click this button to refresh the local drive list.
- **Write Support:** Check this button to allow the remote operating system to have write access to the drive that you have selected. This function allows a user to alter, overwrite, erase and destroy data stored in the drive selected. This feature should only be used with non-critical data. Select the drive and click OK to start direct redirection.

The second type of drive redirection is “Connect ISO”. You may redirect the ISO file directly from your file system. Click this button and select an ISO file to start this function.

Stop Active Drives
As shown in Figure 11-6, click **Stop Drive 1** to disable Drive 1 and Click **Stop Drive 2** to disable Drive 2. The Refresh button is used for refreshing the Virtual Media settings. If you want to stop or change the type of a virtual drive, you first need to stop it.
12 Group Management

Group management is a way to manage multiple servers at the same time. For example, you can query the fan sensor readings from multiple servers and note their differences. Also, you can simultaneously power on or off multiple servers at the same time. As shown in Figure 12-1, click the Manage Group button to show the Group Management screen. In Group Management, you can select multiple servers from the host group on the left and manage them with the functions provided. You may rearrange groups of servers in the group list to make server group management easier.

In the group management, a Login ID and password are required. Click Manage > Setting to set the login information. Please note that IPMIView will use this account to login to multiple servers. (Figure 12-2)

IPMIView allows servers to be grouped in the following categories:
• Fans
• Temperature
• Voltages
• Sensors
• Event Log
• ACPI
• Power
• LAN Configuration
• FRU
• Text Console
• General Information

Figure 12-3
Fans

After you’ve selected multiple servers and clicked the Fan tab, a window will display as shown in Figure 12-4. You can press <Ctrl+Click>, <Shift+Click> or dragging your mouse to select servers. Click the Query button for IPMIView to collect the fan readings from the selected servers. The information listed in the table shows the fan status of the selected servers. If a fan reading is colored in red, the fan may be broken, not installed, or the reading is below the lower limit. When this occurs, the Administrator should take precautionary measures to ensure that the system functions properly.

You may refresh the fan status by checking the Re-flash checkbox. IPMIView will refresh the fan status based on a preset schedule. Please note that IPMIView will not refresh if you switch to another tab.

Figure 12-4
Temperatures

The screen shown in Figure 12-5 indicates that multiple servers have been selected, and the Temperature tab is pressed. Clicking the **Query** button allows IPMIView to collect the temperature readings from the selected servers. The information listed in the table shows the temperature settings of the selected servers.

![Figure 12-5](image-url)
Voltages

After selecting multiple servers and Voltages settings, you will see the display as shown in Figure 12-6. Clicking the Query tab will allow IPMIView to collect the voltage readings from the selected servers. The information listed in the table shows the voltage status of the selected servers.

![Figure 12-6](image-url)
Sensors

After selecting multiple servers and clicking the Sensors tab, you will see the window as shown in Figure 12-7. Click the Query button for IPMIView to collect the sensor readings from the selected servers. The information listed in the table shows the sensor status of the selected servers. The window here shows the chassis status and power supply status. If the chassis is opened or a power supply has failed, the reading will be in red.
Event log

After selecting multiple servers and clicking the Event Log tab, you will see a display as shown in Figure 12-8. Click the Query button for IPMIView to collect the event logs from the selected servers. The table below displays the event log of the selected servers. Select the Host combo box to filter the event log data in the table.
ACPI

After selecting multiple servers and clicking the ACPI tab, you will see a display as shown in Figure 12-9. Click the Query button for IPMIView to collect the ACPI state from the selected servers. The table displays the ACPI state of the selected servers.

![Figure 12-9](image-url)
Power

After selecting multiple servers and clicking the **Power** tab, you will see a display as shown in Figure 12-10. Click one of the Power Control buttons to send a command to the selected server. The text area will show the result.

![Figure 12-10](image)
LAN Configuration

After selecting a single server and clicking the **LAN Config** tab, you will see a display as shown in Figure 12-11. Click **Query** to get the information needed from a single server and copy it to other servers for data-sharing. The text area will show the results of the query and provide updates. The **Clear** button is used to clear the text field only; it will not clear the actual LAN configuration from the server.

![Figure 12-11](image-url)
FRU

After selecting a single server and clicking the FRU tab, you will see a display as shown in Figure 12-12. Click the Query button for IPMIView to get the FRU information from a single server, and copy it to other servers for data-sharing. The text area will show the results of a query and provide updates. The Clear button is used to clear the text field only; it will not clear the actual FRU data from the server.

![Figure 12-12](image-url)
Text Console

After selecting a single server and clicking the Text Console tab, you will see a display as shown in Figure 12-13. Click the Open button for IPMIView to create an internal text console window for the selected server. Click Start to start the text console redirection. The power control buttons displayed on the status bar provides power on, power off and reset commands, allowing you to easily power on or power off a remote server. The Encode checkbox is for RMCP+ encoding. Check it to enable packet encoding between the IPMIView and a server.

Figure 12-13
General Information

After selecting multiple servers and clicking the General Info tab, you will see a display as shown in Figure 12-14. Select the fields you want to query from the servers, and click the Query button to allow IPMIView to collect the information from the selected servers.

Figure 12-14
13 Trap Receiver

The Trap Receiver is a utility used for receiving traps from the BMC. In the event of a sensor error or a sensor reading that exceeds a threshold, the BMC will send SNMP traps to the destinations set in the BMC. The Trap Receiver is executed on the destination site and receives the SNMP trap from multiple senders (BMCs). If you select a category, you can see all the traps in that category. Furthermore, when you click a trap in the trap list, you can see its details in the Trap Structure window. Please refer to the BMC Setting page in IPMIView to set the SNMP destination.

As shown in Figure 13-1, there are several components to the IPMI Trap Receiver.

- **Menu Bar**: contains pull-down menus for exiting the programs, getting help, etc.
- **Tool Bar**: contains all IPMI Trap Receiver features.
- **Category**: categorizes the traps by the sender, community and sensor.
- **Trap Structure**: It is a tree structure that displays traps in detail.
- **Status Bar**: shows messages regarding the current status of related components.
- **Trap List**: shows detailed information for traps received.

![Figure 13-1](image-url)
Tool Bar functions

The tool bar provides the following features as shown in Figure 13-2.

- **Start**: starts the Trap Receiver.
- **Stop**: stops the Trap Receiver.
- **Save**: saves the traps received into a file.
- **Load**: loads a saved trap file into the Trap Receiver.
- **Clear**: clears all the traps in the trap list.
- **Email**: displays an “Email-Alert Settings” dialog box (see Figure 13-3). Fill the “SMTP server”, “From (email address)” and “To (email address)” fields. The “From” and “To” addresses must be valid in the SMTP server. If the SMTP server requires authentication, please enter the username and password. Once entering needed information, click the Test button to verify if your email works properly.

**Note**: For some mail servers, the Enable TLS checkbox should be clicked so that emails can be sent.
Category

There are three categories including: Sender, Community and Sensor as shown in Figure 13-4. The Sender page lists all sender IP addresses. The Community page lists all SNMP communities. The Sensor page lists all sensor types from the traps. Clicking on each category type will act as a filter for all traps in the traps list. Click the All button to cancel all filters.

Once a category has been selected, the filter condition will be displayed at the bottom of the “trap” list. See Figure 12-5 for reference. As displayed in Figure 13-5, the filter is “Sender = 192.168.10.245, Community = public, Sensor = CPU 1”. The trap list displays only those traps whose contents are included in each of the three filters.
**Trap Structure**

The Trap Structure displays detailed information for the selected item in the trap list. Information includes the “SNMP Header”, “PDU Header”, “PDU Body”, “Bind” and “PET” data.

<table>
<thead>
<tr>
<th>Num</th>
<th>Sender</th>
<th>Community</th>
<th>Sensor</th>
<th>Description</th>
<th>Local Time Stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Lower Non-Critical - going High</td>
<td>2055/1/01 15:48:22...</td>
</tr>
<tr>
<td>11</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Non-Critical - going High</td>
<td>2055/1/01 15:48:28...</td>
</tr>
<tr>
<td>12</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Critical - going High</td>
<td>2055/1/01 15:48:36...</td>
</tr>
<tr>
<td>13</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Non-Recoverable - goi</td>
<td>2055/1/01 15:48:46...</td>
</tr>
<tr>
<td>20</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Non-Critical - going High</td>
<td>2055/1/01 15:48:49...</td>
</tr>
<tr>
<td>21</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Critical - going High</td>
<td>2055/1/01 15:48:56...</td>
</tr>
<tr>
<td>22</td>
<td>192.168.10.245</td>
<td>public</td>
<td>CPU1</td>
<td>Upper Non-Recoverable - goi</td>
<td>2055/1/01 15:48:59...</td>
</tr>
</tbody>
</table>

---

![Figure 13-5](image)

**Figure 13-5**

---

![Figure 13-6](image)

**Figure 13-6**
Receiving a Trap

When the Trap Receiver receives a trap from the BMC, an alert bar will display on the screen for about 10 seconds to notify you that a trap has occurred. In addition, an email alert will be sent according to the information field in the Email Alert dialog box. Please refer to Figure 13-7.

The email will include the following information.

A SNMP trap received
Sender: 192.168.10.247
Sensor: FAN 2
Description: Lower Non-recoverable - going low
Time: 2005/11/22 14:27:07 Tue

![Figure 13-7](image-url)
Appendix A: SIM Firmware Update

- Select a remote system on the System list and click **File > Update IPMI Firmware** to start the firmware update.

![Figure A-1](image1)

- Click the **Open** button to select the firmware you desire and then click **Start** to continue.

![Figure A-2](image2)
• A login dialog will appear. Please enter the Login_ID and the password. This user will be granted the privilege as an Administrator.

Figure A-3

• A firmware information dialog will appear. It shows detailed information on the current and new firmware. Click Yes to continue.

Figure A-4

• The firmware file will start to upload. This process may take few minutes to complete.

Figure A-5
• Please wait for the firmware to upload. Once uploading is completed, the BMC will start to flash the firmware internally. This step may take about a minute. Please try to connect to the system after two minutes.
Appendix B: SIM(W) KVM Console and Virtual Media

SIM(W) KVM Console allows the user to perform console redirection via KVM (Keyboard/Video/Mouse) support as shown in Figure B-1.

![Figure B-1 SIM(W) KVM Console Main Screen](image-url)
SIM(W) Console Toolbar

The SIM(W) Console Toolbar provides seven tool buttons which will allow the user to perform the following actions as shown in Figure B-2.

![SIM(W) KVM Console Toolbar](image)

**Start Video Redirection:**
Click this button to start SIM(W) KVM console redirection.

**Stop Video Redirection:**
Click this button to stop video redirection. Please note that the drive redirection will continue to work when it is enabled.

**Full Screen:**
Click this button to maximize the size of the remote video screen displayed on the local computer screen as shown in Figure B-3.

![Full Screen](image)
**Virtual Media:**

Click this button to enable Virtual Media support as shown in Figure B-4.

![Virtual Media screenshot](image)

**Figure B-4 Virtual Media**

- **Floppy/USB key Media:** This feature allows the user to redirect Floppy/USB Media.
- **CD Media:** This feature allows the user to redirect CD/DVD or ISO image file.
- **Connect Floppy:** Click this button to start to redirect your Floppy Image or USB Key Media.
- **Connect CD/DVD:** Click this button to start to redirect your CD/DVD or ISO image file.
**Soft Keyboard:**

Click this button to use the Soft Keyboard for console redirection as shown in Figure B-5.

![Soft Keyboard](image)

**Figure B-5 Soft Keyboard**

- **Language:** This feature allows you to select a proper language setting for your soft keyboard.
- **Combination:** Check this button if you want to use a combinations of modifier keys
- **Single Key:** Check this button if you want to use a modifier key as single key.
- **Lock:** Check this button to hold the modifier key you’ve clicked.

The menu is same as web KVM UI.
Appendix C: SIM(WA) iKVM Console and Virtual Media

Click **Launch KVM Console** to open SIM(WA) iKVM Window as in Figure C-1.

![Figure C-1 SIM(WA) iKVM Window](image)

Figure C-1 SIM(WA) iKVM Window
Please note that SIM(WA) iKVM window supports same features as other versions of Web KVM as shown in Figure C-2.

![iKVM Window](image)

**Figure C-2 iKVM Window**

**Virtual Media (USB Floppy & Flash)**

Click **Virtual Media** on the menu bar and then click **Virtual Storage** to display the Virtual Media (USB Floppy & Flash screen) as shown in Figure C-3.

![Virtual Media (USB Floppy & Flash)](image)

**Figure C-3 Virtual Media (USB Floppy & Flash)**
- **Logical Drive Type:** From the pull-down menu select the logical drive type.
- **Image Filename and Full Path:** Enter the image file name and the full path to the file. It is available only for ISO files.
- **Refresh:** Click this button to refresh the page.
- **Plug In:** Click this button to mount your logical drive as virtual media.
- **Plug Out:** Click this button to un-mount virtual media.
- **OK:** Click this button to confirm and exit.
- **Connection Status History:** This window displays the connection and the status of virtual media.

**Virtual Media (CDROM & ISO)**

Click **CDROM & ISO** to display the Virtual Media (CDROM & ISO) as shown in Figure C-4.

![Virtual Media (CDROM & ISO)](image_url)

**Figure C-4 Virtual Media (CDROM & ISO)**

- **Logical Drive Type:** From the pull-down menu select the logical drive type.
- **Image Filename and Full Path:** Enter the image file name and the full path to the ISO file.
- **Refresh:** Click this button to refresh the page.
- **Plug In:** Click this button to mount your logical drive as virtual media.
- **Plug Out:** Click this button to un-mount virtual media.
- **OK:** Click this button to confirm and exit.
- **Connection Status History:** This window displays the connection and the status of Virtual Media.
iKVM Virtual Keyboard

Virtual Keyboard provides soft keyboard support and allows the user to click a key on the soft keyboard by using the mouse when a keyboard is not available. Refer to Figure C-5 for Virtual Keyboard.

![Figure C-5 Virtual Keyboard](image_url)
Appendix D: SIM(W) Firmware Update

1. To re-flash SIM(W) Firmware, please select an SIM(W) device and then Update firmware in the menu. A dialog box appears.

![Confirmation dialog box](image)

Figure D-1 SIM(W) Firmware Re-flash

2. Make sure that you select the correct firmware for update, and click OK. This dialog box appears.

![YAFU Flash window](image)

Figure D-2 YAFU Flash
3. The selected firmware is checked for validation before remote flashing starts.

![YAFU Flash](image)

**Figure D-3 YAFU Flash**

- **IP**: This item displays the IP Address of the IPMI device.
- **Browse**: Enter the file name or browse the database to select a file that you want to perform remote flashing.
- **Preserve BootLoader**: Check this box to preserve the settings of BootLoader.
- **Preserve Config Module**: Check this box to preserve the settings of Configuration Module.
- **Firmware Version**: The new firmware version will be displayed.
- **Flash**: Click <Flash> to commit the file for remote flashing.

4. Click **FW Version**. Remote Flashing can only be performed by an Administrator. If you are an administrator, enter your ID and your password in the dialog box below. Then click **OK**.

![ID and Password (Administrator)](image)

**Figure D-4 ID and Password (Administrator)**

5. After you check the firmware versions and click **Flash**, firmware flashing will start. See the figures below.
Figure D-5 Display of Current Firmware Version

Figure D-6 Remote Flash #1
When the flashing is complete, the status field displays “Finished.” Click Finish to exit this dialog box.
Appendix E: SIM(WA) Firmware Update

1. Select an SIM(WA) device and select **Update Firmware** in the menu for SIM(WA) Firmware re-flashing. A dialog box appears.

![Figure E-1 Firmware Update](image)

2. Make sure that you have the correct firmware for update, and click **OK**. The dialog box below appears.

![Figure E-2 Flash](image)

3. Click **Browse** to select the desired firmware file for remote flashing. It will be checked for validation before remote flashing starts.

![Figure E-3 Flash](image)
4. Click **FW Version**. Remote flashing can only be performed by an administrator. If you are an administrator, enter your ID and password in the dialog box.

![Figure E-4 ID/Password](image)

5. After you check the firmware versions and click **Flash**, firmware flashing will start.

![Figure E-5 Firmware Versions](image)

![Figure E-6 Remote Flash #1](image)
6. When the flashing is complete, the status field displays “Finished”. Click **Close** to exit this dialog box.
Appendix F: ASPEED X10 Firmware Update

1. Select an ASPEED BMC device and select **Update Firmware** in the menu for ASPEED Firmware Re-flashing. The dialog box below appears.

   ![Figure F-1 Firmware Update](image)

   **Figure F-1 Firmware Update**

2. Make sure that you have the correct firmware for the update, and click **OK**. The dialog box below appears.

   ![Figure F-2 Flash](image)

   **Figure F-2 Flash**

3. Click **Browse** to select the desired firmware file for remote flashing. It will be checked for validation before remote flashing starts.

   ![Figure F-3 Flash](image)

   **Figure F-3 Flash**
4. Click **FW Version**. Remote flashing can only be performed by an administrator. If you are an administrator, enter your ID and password in the dialog box. Then click **OK**.

![Figure F-4 ID/Password](image)

Figure F-4 ID/Password

5. After you check the firmware versions and click **Flash**, firmware flashing will start.

![Figure F-5 Firmware Versions](image)

Figure F-5 Firmware Versions

6. When the flashing is complete, the status field displays “Done. (BMC needs 1 minute to restart.)”. Click **Close** to exit this dialog box.

![Figure F-6 Remote Flash](image)

Figure F-6 Remote Flash
Appendix G: Q&A and Supported BMC List

Q: Why can’t I save configuration/open KVM window on Windows platform?
A: To solve this problem, there are two ways:
• Running the IPMIView using the Administrator permission
  a. Right-click the IPMIView20 icon, click More and then click Run as administrator.
  b. When prompted for an administrator password or for a confirmation, type the administrator password, and click Continue.
• Installing the IPMIView to another location
  Select a drive other than C drive. However, when you install the IPMIView, do not install it to the default path (C:\Program Files).

Q: How can I enable logging in IPMIView?
A: Navigate to IPMIView folder and manually launch IPMIView by “java -jar IPMIView20.jar d” to enable logging, and then there is a log.txt file be created and saved in IPMIView folder.
Note: The log size will increase rapidly if the transaction is busy.

Q: Why show the permissions error when installation on Windows platform?
A: Please execute the installation with “Run as administrator” mode due to IPMIView some functionality need OS write permission.
Supported BMC List

- ASPEED AST2500 BMC on-Board (e.g., X11SPL-F, X11DPU, X11DGQ, B11DPT boards)
- ASPEED AST2400 BMC on-Board (e.g., X10, X11SSH-F, B10, B1 boards)
- Renesas SH7757 BMC on-Board (e.g., X9, B9 boards)
- Nuvoton WPCM450 BMC on-Board (e.g., X9 boards)
- Winbond WPCM450 BMC on-Board (e.g., X8 boards)

* KVM-over-LAN supports BMCs with ATEN solution in ASPEED AST2500 (e.g., X11, B11), AST2400 (e.g., X10, B10, B1) and WPCM450 (e.g., X9)
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