



IPMIView for Android

User's Guide

Revision 1.8.0

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Manual Revision 1.8.0
Release Date: 2020/11/27

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Revision History

Data	Rev	Description
2020/11/27	1.8.0	<ol style="list-style-type: none">1. Added the Maintenance Event tab in the event log.2. Added the login username and privilege label on the BMC page.3. Added support for Android 11.4. Added the BMC IPv6 addresses on the summary page.5. Added the dynamic IPv6 address list on the LAN setting page.6. Modified the detailed BMC information in the device list.
2020/03/27	1.7.0	<ol style="list-style-type: none">1. Updated KVM stunnel.2. Updated SEL descriptions.3. Fixed the known issues.
2018/12/06	1.6.0	<ol style="list-style-type: none">1. Supported secure login in SMC RAKP mode.2. Added the function of exporting diagnostic reports in the diagnostic view menu.3. Displayed IPv6 in Multi-Node information tab for Micro Cloud devices.4. Fixed the incorrect information of HDD physical size and logical strip size for systems installed with LSI MegaRAID 2108, 2208 or 3108.5. Fixed issues of IPMIView crashing and system stabilization.
2018/03/23	1.5.0	<ol style="list-style-type: none">1. Displayed IPv6 information in the LAN setting.2. Automatically converted a hostname to an IP address by DNS during run-time and when a new host was added.3. Added CA certification in P8 and P9 motherboard for iKVM.4. Added the autocomplete function for IP address searches.5. Fixed the known system crash and ANR issues.6. Fixed the problem of KVM missing in P9 systems.7. Fixed the issue that DUID did not show completely in the LAN setting.
2017/05/05	1.4.0	<ol style="list-style-type: none">1. Added the NVME function.2. Added the Power Cycle button on the IPM Device Page.3. Provided detailed information of the specified PSU status.4. Converted a host name to an IP address using DNS in the BMC info and search.5. Supported BigTwin Multi-Node.6. Added KVM SSL handshake support for stunnel certification7. Added the RMCP+ port number setting.8. Supported IPv6 address and hostname.9. Fixed the issue forcing the system to quit on the diagnostic page.10. Fixed the issue of wrong status in health check.
2016/06/29	1.3.0	<ol style="list-style-type: none">1. Changed date format to yyyy/mm/dd [hh:mm:ss]2. Supported IPv6 in KVM and a new BMC device.3. Fixed diagnostic summary issue.
2015/11/23	1.2.0	<ol style="list-style-type: none">1. Added more supported BMCs for KVM.2. Added information for diagnostic summary and email backup.3. Supported MicroCloud devices in Multi-Node.4. Supported ConfigID = 5 devices in Multi-Node.

2015/08/06	1.1.0	<ol style="list-style-type: none">1. Added the health check function.2. Added the multi-node function.3. Added BMC summary in BMC sliding menu.4. Added the function of separating SDRs by sensor types.5. Fixed bugs including KVM crush.6. Updated board ID and GUID.
2015/03/06	1.0.0	Initial version.

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1. Overview

IPMIView (IPMI-Over-LAN) is a management software program based on the IPMI specification revision 1.5 - 2.0. IPMIView sends IPMI messages to and from the BMC (Baseboard Management Controller) 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.

Now the Android app of this program has been developed to expand its use. With IPMIView for Android and a wireless connection, users can manage BMCs via their mobile devices with ease.

In addition, this app also provides you with a console to remotely and directly monitor and control your Supermicro servers.

2. Installation

2.1 Requirements

Make sure your device meets these requirements before installation.

- Android version 4.1.2 or higher
- Supports device resolution: hdpi, tvdpi and xdpi
- Supports English language
- Supports IPv6 in Android version 5.1.1 or higher.

Some devices partially support IPv6, below are the devices we tested that work well.

- Nexus 7, Android 5.1.1 LMY47V
- REDMI NOTE 3, Android 5.1.1 LMY47V
- Nexus 5, Android 6.0.1 MOB30M

2.2 List of Supported BMCs

- ASPEED AST2600 BMC on-Board (e.g., X12DPU, X12DPi boards)
- ASPEED AST2500 BMC on-Board (e.g., X11SPL-F, X11DPU, X11DGQ, and B11DPT)
- ASPEED AST2400 BMC on-Board (e.g., X10, X11SSH-F, B10, and B1)
- Renesas SH7757 BMC on-Board (e.g., X9 and B9)
- Nuvoton WPCM450 BMC on-Board (e.g., X9)
- Winbond WPCM450 BMC on-Board (e.g., X8)

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

2.3 Installation

To install IPMIView on your mobile device, follow these steps:

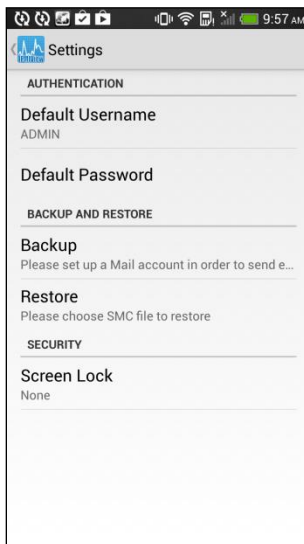
1. Search for “IPMIView” in the Google Play store.
2. Download and install the “IPMIView” application on your Android mobile device.

3. Grouping BMCs

3.1 Basic Setup


Before use, enter the username and password set up in your IPMIView at the control site.

1. Tap the IPMIView app icon  on the screen page.
2. Tap the **Menu** button on the device or the icon  in the action bar.
3. Select **Settings**. This screen page appears.





4. Tap **Default Username** and enter the username.
5. Tap **Default Password** and enter the password.

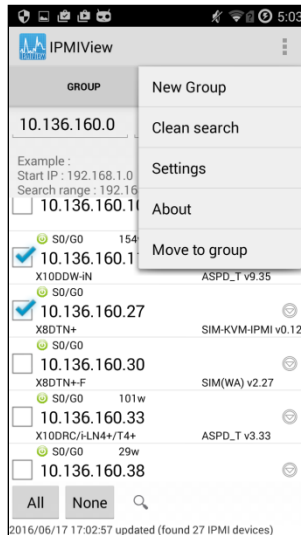
3.2 Creating a Group



1. Tap the function tab **GROUP**, and tap the **Menu** button on the device or the icon  in the action bar.
2. Select **New Group**, and enter a name for this group.

3.3 Searching for BMCs

To search for BMCs, follow these steps:

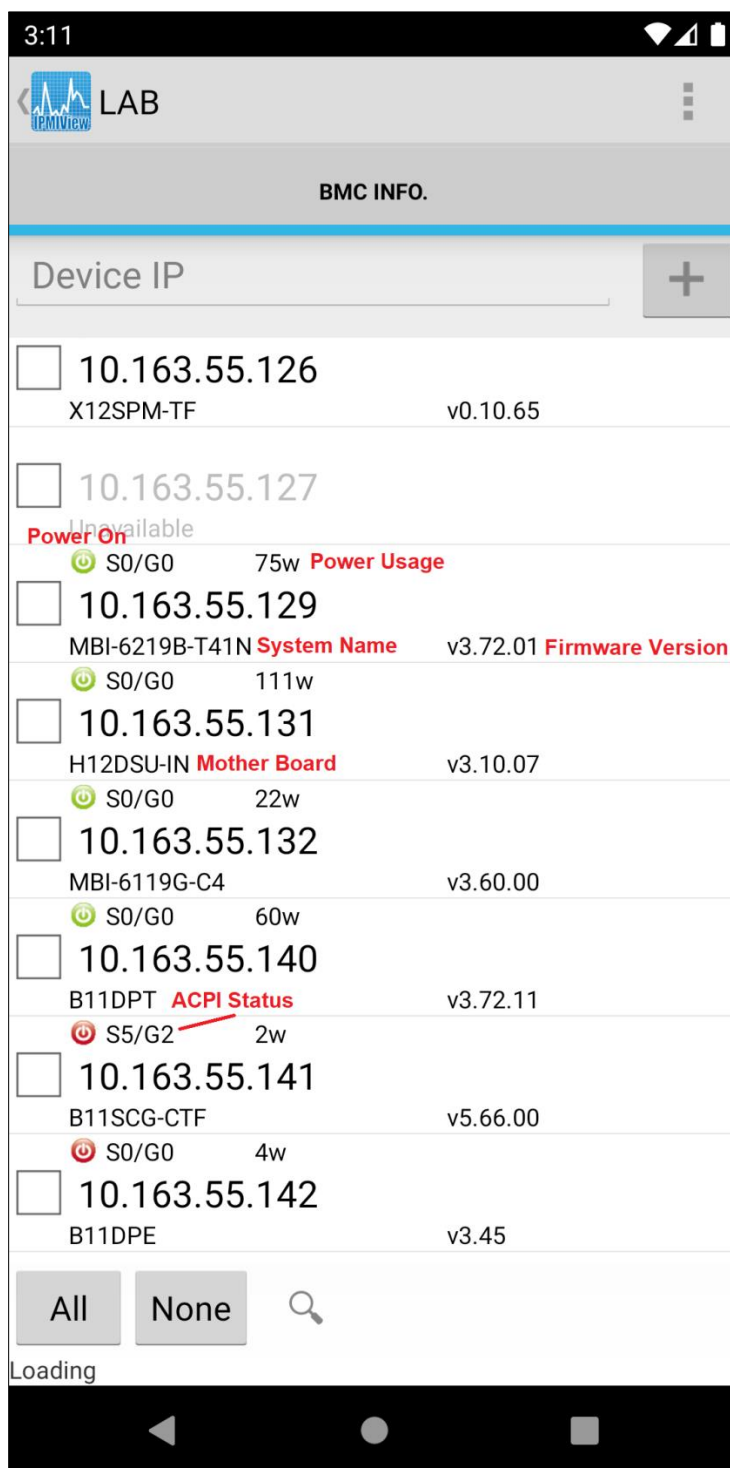
1. Tap the **SEARCH** tab, enter the desired IP range in the field or leave it blank for automatic search, and then tap the icon .
2. Select the desired BMCs to be collected in the same group, tap the **Menu** button on the device or the icon  in the action bar, and select **Move to group** or select **New Group**.



3. Assign the selected BMCs to the desired group.
4. Tap the icon  in the action bar and select **Clean search**.
5. The search covers network segments but the number of BMC devices is limited to 1024.
6. BMCs shown in blue have not been added to any groups yet, and those shown in black have already been added. To view the groups the desired BMC belongs to, tap the icon  of the desired BMC.


3.4 Group Overview

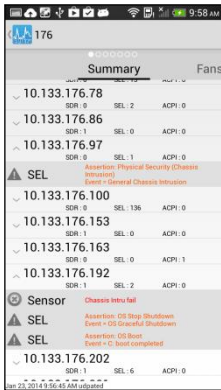
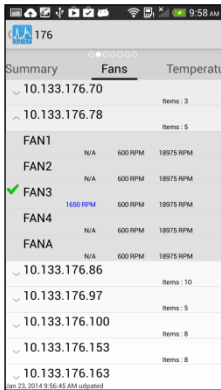
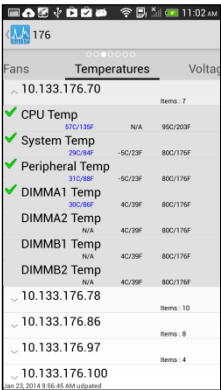
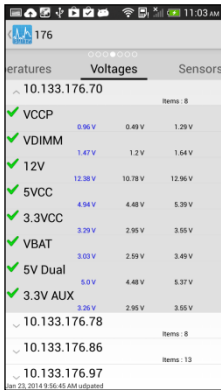
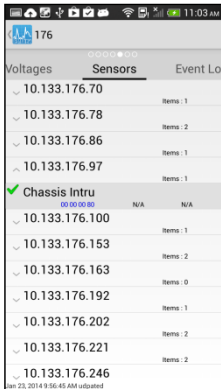



Tap the desired group for an overview of the BMCs in this group.




3.5 Diagnosing a Group

To view the status of each BMC in the group, follow these steps:

1. Tap the **GROUP** tab, select the desired group, and then tap the icon .
2. A diagnostic report is generated. The report includes the following information: Summary, Fans, Temperatures, Voltages, Sensors, Event Log and ACPI. Scroll each tab for details.

Summary	Fans	Temperatures	Voltages
			
Sensors	Event Log	ACPI	Report Exportion
			

3. Click each sub item to enter the desired BMC function view.
4. Tap the **Menu** button on the device or the icon  in the action bar, and select **Export report to file**.





Note: BMCs and their event logs are displayed in Summary. The events are categorized as assertion or desassertion types. Event timestamps date back to three days.

1	2	A	B	C	D	E	F	G	H	I	J
	1	Event Log ID	Sensor	Type	Time Stamp	Description					
	2	10.136.160.21									
+	146	10.136.160.27									
+	659	10.136.160.30									
+	847	10.136.160.36									
+	883	10.136.160.86									
•	884		27 #0xFF	Session Audit	2018/05/14 20:31:25	Assertion: Invalid Username or Password					
•	885		26 #0xFF	Session Audit	2018/05/14 20:31:25	Assertion: Invalid Username or Password					
•	886		25 #0xFF	Session Audit	2018/05/14 20:31:25	Assertion: Invalid Username or Password					
•	887		24 #0xFF	Session Audit	2018/05/03 22:40:10	Assertion: Invalid Username or Password					
•	888		23 #0xFF	Session Audit	2018/05/03 22:40:10	Assertion: Invalid Username or Password					
•	889		22 #0xFF	Session Audit	2018/05/03 22:40:10	Assertion: Invalid Username or Password					
•	890		21 12V	Temperature	2018/03/21 23:38:07	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	891		20 12V	Temperature	2018/03/21 23:37:47	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	892		19 12V	Temperature	2018/03/21 23:28:33	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	893		18 12V	Temperature	2018/03/21 23:27:36	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	894		17 12V	Temperature	2018/03/21 23:25:38	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	895		16 12V	Temperature	2018/03/21 23:05:26	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	896		15 12V	Temperature	2018/03/21 23:04:56	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	897		14 12V	Temperature	2018/03/11 21:14:18	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	898		13 12V	Temperature	2018/02/27 02:57:08	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	899		12 12V	Temperature	2018/02/27 02:29:28	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	900		11 12V	Temperature	2018/02/27 02:24:53	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	901		10 12V	Temperature	2018/02/27 02:15:08	Assertion: Upper Critical - going highReading = 16.22 C, Threshold = 16.22 C					
•	902		9 CPU1 Temp	OS Boot	2018/01/15 19:09:21	Assertion: Base OS/Hypervisor Installation completed					
•	903		8 CPU1 Temp	OS Boot	2018/01/15 18:57:51	Assertion: Base OS/Hypervisor Installation started					
•	904		7 CPU1 Temp	OS Boot	2018/01/09 01:42:55	Assertion: Base OS/Hypervisor Installation completed					
•	905		6 CPU1 Temp	OS Boot	2018/01/09 01:32:53	Assertion: Base OS/Hypervisor Installation started					
•	906		5 CPU1 Temp	OS Boot	2018/01/09 00:53:25	Assertion: Base OS/Hypervisor Installation completed					
•	907		4 CPU1 Temp	OS Boot	2018/01/09 00:44:39	Assertion: Base OS/Hypervisor Installation started					
•	908		3 CPU1 Temp	OS Boot	2018/01/09 00:38:59	Assertion: Base OS/Hypervisor Installation started					
•	909		2 CPU1 Temp	OS Boot	2018/01/08 23:41:42	Assertion: Base OS/Hypervisor Installation completed					
•	910		1 CPU1 Temp	OS Boot	2018/01/08 19:35:34	Assertion: Base OS/Hypervisor Installation started					
-	911	10.136.160.176									
+	923	10.136.160.183									
+	1436										
+	1437										


3.6 Manually Sorting the List

To sort the BMCs on the group list, follow these steps:

1. Tap the **Menu** button on the device or the icon  in the action bar, and select **Manually Sort**.
2. Select the desired BMC to be moved around, and then drag and drop the icon  next to it.
3. Tap the option **Done** in the upper right to save the change.

3.7 Customizing the Sorting List

To sort the BMCs on the group list in a customized manner, follow these steps:

1. Tap the **Menu** button on the device or the icon  in the action bar, and select **Customize Sort**.
2. Select one type (IP, Alias, ACPI, Watts, MB model, Firmware type, Firmware version) of sorting.
3. Tap **Ascending** or **Descending** to finish.




Note: IPv6 sorting isn't supported.


3.8 Changing Names of IP Addresses

To modify the name, RMCP+ port or IP address of a BMC, long press the desired BMC on the screen, enter the new information, and click **Confirm**.


3.9 Adding a BMC to a Group

To add a BMC to a group, input its IP (IPv4 or IPv6) address in textbox above and tap the icon .


3.10 Adding a BMC to Another Group

To add a BMC to one or more groups, tap the **Menu** button on the device or the icon  in the action bar, and then select **Copy to group**.


3.11 Deleting a BMC from a Group

To delete a BMC from a group, tap the **Menu** button on the device or the icon  in the action bar, and then select **Delete IPMI device**.


3.12 Filtering for Specific BMCs

To locate specific BMCs, tap the icon  on the bottom, and then enter the keywords in the Filter device field.


3.13 Copying Selected BMCs to Another Group

To copy BMC(s) to another group, check the BMCs and tap the **Menu** button on the device or the icon  in the action bar, and then select **Copy to group**.

3.14 Moving Selected BMCs to Another Group

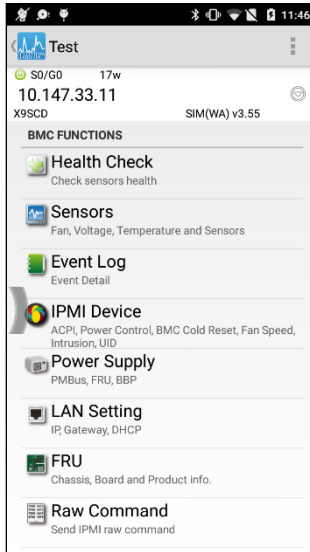
To move BMC(s) to another group, click the checkboxes of the selected BMCs and tap the **Menu** button on the device or the icon  in the action bar, and then select **Move to group**.

3.15 Power Management for Specific BMCs

To power control BMC(s), check the BMCs and tap the **Menu** button on the device or the icon  in the action bar, and then select **Power Control**.

4. Managing a BMC

To view the details of a BMC, tap the desired group then tap the IP address of the desired BMC. This page screen appears.




Scroll down to find more about the types of BMC functions listed. Tap any desired function to further manage the BMCs.

- Health Check
- Sensors
- Event Log
- IPMI Device
- Power Supply
- NVME
- HDD
- LAN Setting
- FRU
- Raw Command
- User
- KVM
- Multi-Node
- Preference
- Summary

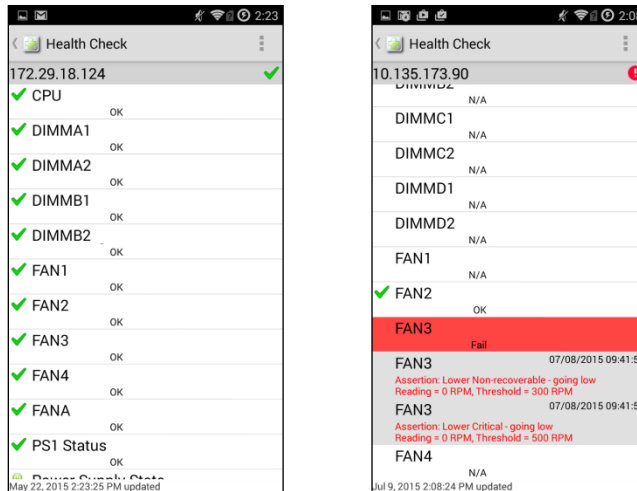


Note: Depending on the login level, these BMC functions: LAN Setting, User, Power Supply, KVM, Multi-Node, Hard Disk Drive and NVMe - may be restricted or unavailable. To access all functions, logging in as an Administrator is thus recommended.

4.1 Health Check

This option displays the health status of each sensor. To set a date range for filtering status and SEL, tap the icon  in the action bar and select **Health check date**.

Click the failed item, and check the details from sub items.




Sensor status:

- OK
- Fail
- Unknown
- N/A
- Fail(N/A): A BMC mistakes a sensor for being existent.

Power Status:

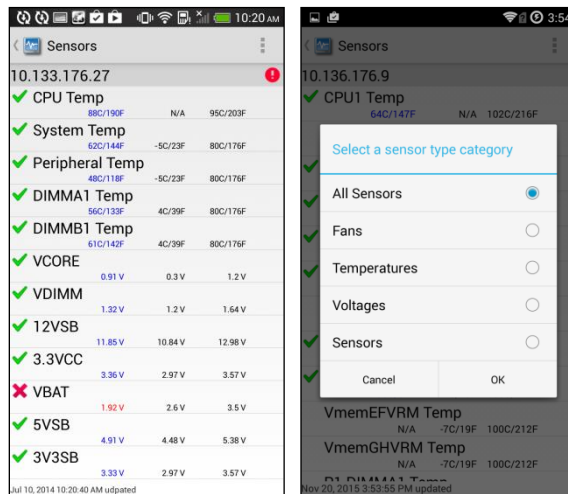
- ON
- OFF
- Unknown



Note: You can tap the icon  in the action bar and select **Refresh** to retrieve the latest SEL and SDR. An SEL timestamp ranges from five hours prior to the current time.

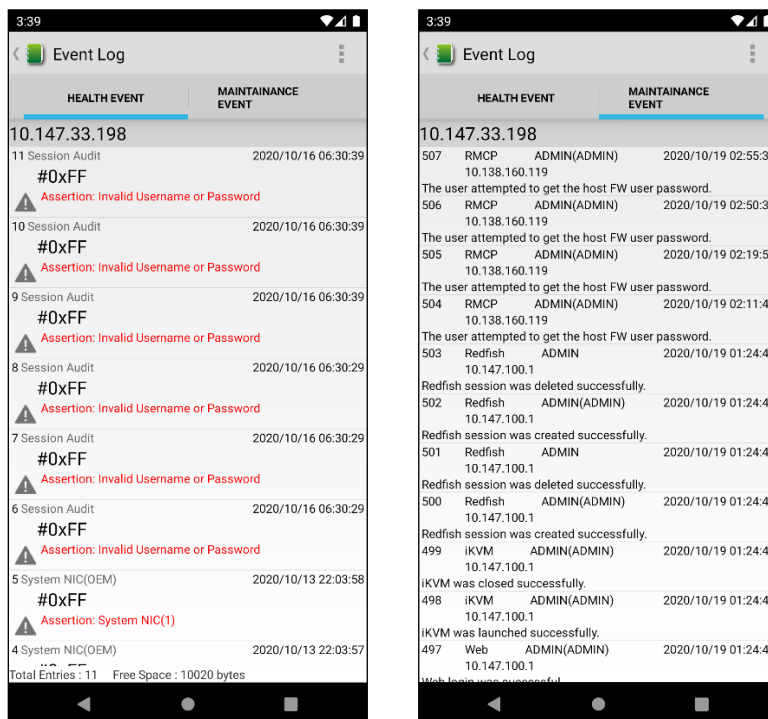
4.2 Sensors

This option displays the status of each sensor used to monitor system health.



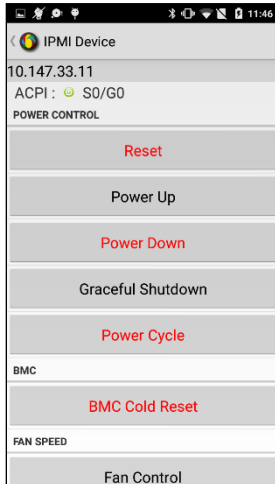
4.3 Event Log

This function allows you to access the health and maintenance event log.



4.4 IPMI Device

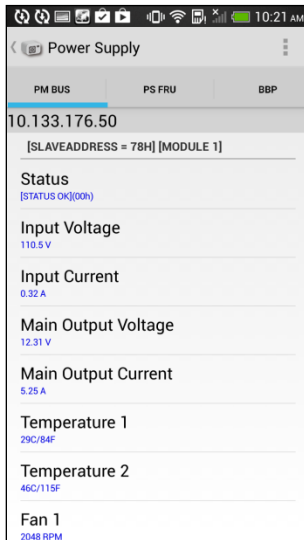
This option is used to display the information and functionality of the BMC firmware installed in the system.



- **Reset:** Resets the server.
- **Power up:** Turns on the server.
- **Power Down:** Turns off the server.
- **Graceful Shutdown:** Shuts down the server with software.
- **Power Cycle:** Resets the server with software.
- **BMC Cold Reset:** Cold Resets the BMC.
- **Fan Control:** Sets the fan speed on the server.
- **Clear Chassis Intrusion:** Clears the record of chassis intrusions.
- **Blinking on/off:** Sets the server to blink on/off.
- **Web View:** Opens a browser view of BMC management.

4.4 Power Supply

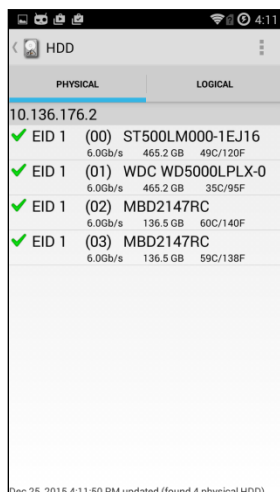
This option is used to display the system's power supply information.



- **PM Bus:** Displays the PMBus information of the power supply.
- **PS FRU:** Displays the FRU information of the power supply.
- **BBP (Battery Backup Power):** Select **Set the battery discharge setting** to configure how a battery is discharged or **View the current battery status** for information on the battery in use.

4.5 HDD

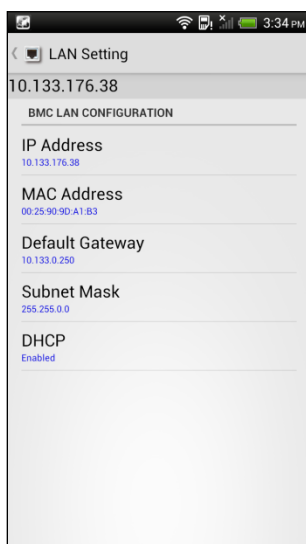
This option provides information on two types of disk drives in the system. Tap the **PHYSICAL** or **LOGICAL** tabs for details.



Note: This option is only available when the accessed server has Supermicro storage add-on card with LSISAS 2108, 2208 or 3108 installed.

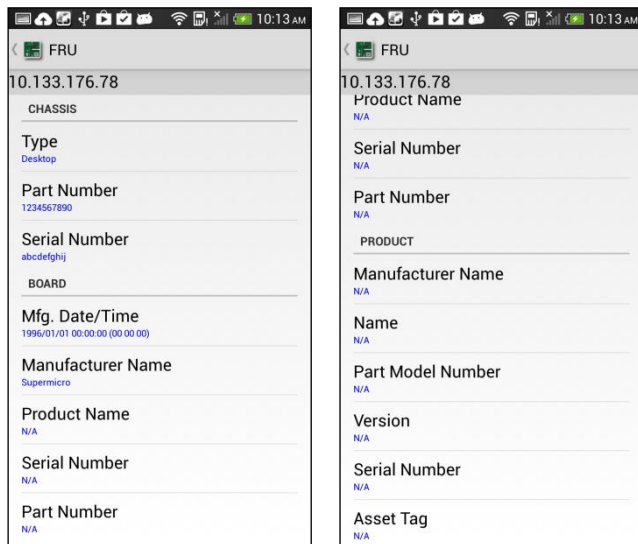
4.6 LAN Setting

This option displays the network settings.



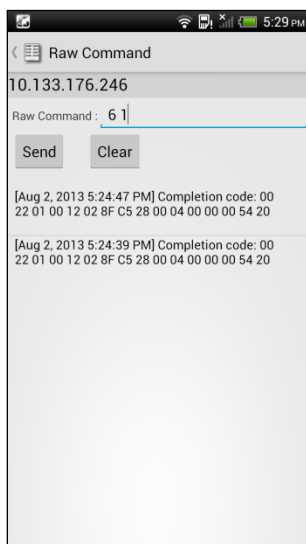
4.7 FRU

This option provides information on FRUs, including the serial number, part number, and the components of the motherboard.



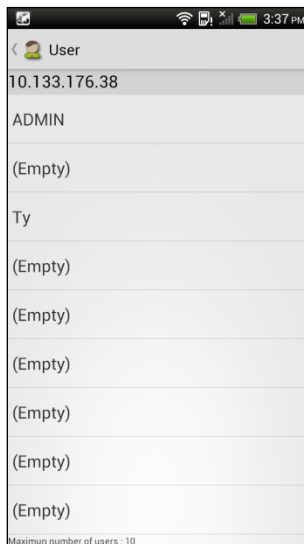
4.8 Raw Command

This option allows for executing raw IPMI commands.



4.9 User

This option is used to access or edit the user information.



- To add or modify the user information, tap the desired item.
- To clear the user information, long press the desired item.



Note: The user “ADMIN” cannot be deleted.

4.10 KVM

This option allows you to perform console redirection via KVM (Keyboard/Video/Mouse) support. Note that Administrator permission is required.



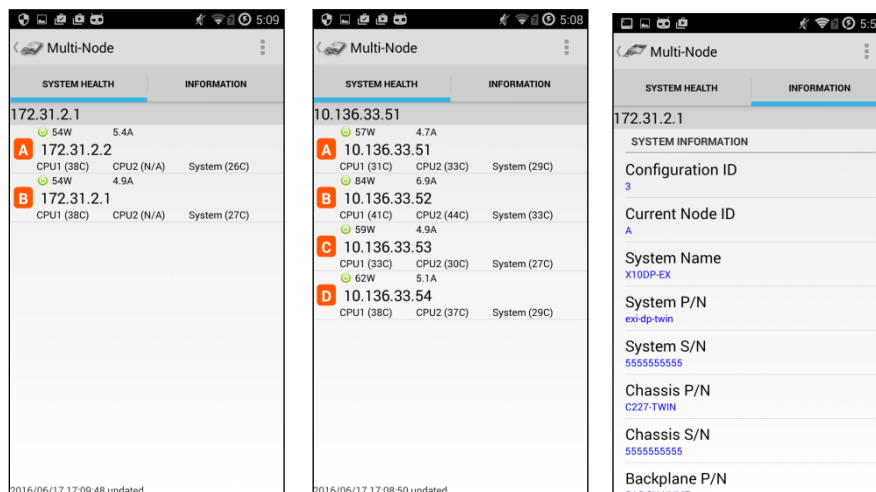
To control the cursor, use these multi-touch gestures:

- Moving the mouse: Drag the screen and move.
- Double-clicking the left mouse button: Double-tap the screen.
- Clicking the left mouse button: Tap the screen once.
- Clicking the right mouse button: Long press the screen.
- Using the mouse wheel: Use two fingers to scroll up or down.
- Using the mouse to draw a selection rectangle or drag a window: Double-tap the screen or the desired window and drag.

For details on the use of a virtual keyboard, see *5. Using the KVM Keyboard*.

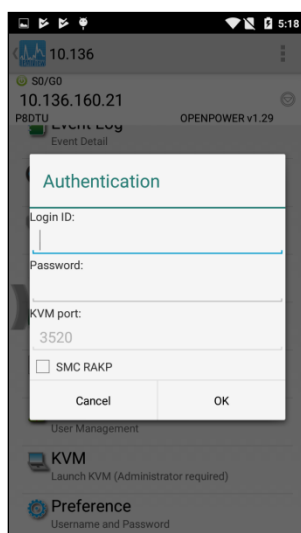
4.11 Multi-Node


This option displays the health status of multi-node systems. Tap the **INFORMATION** tab for detailed information.



4.12 Preference

This option allows you to specify the login ID and password of the desired BMC.



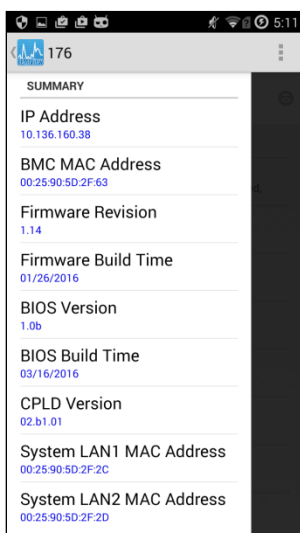
If any information has been modified, tap the **Menu** button on the device or the icon  in the action bar, and then select **Refresh** to update.



Note: BMC authentication priority is the specific BMC > group > global settings.

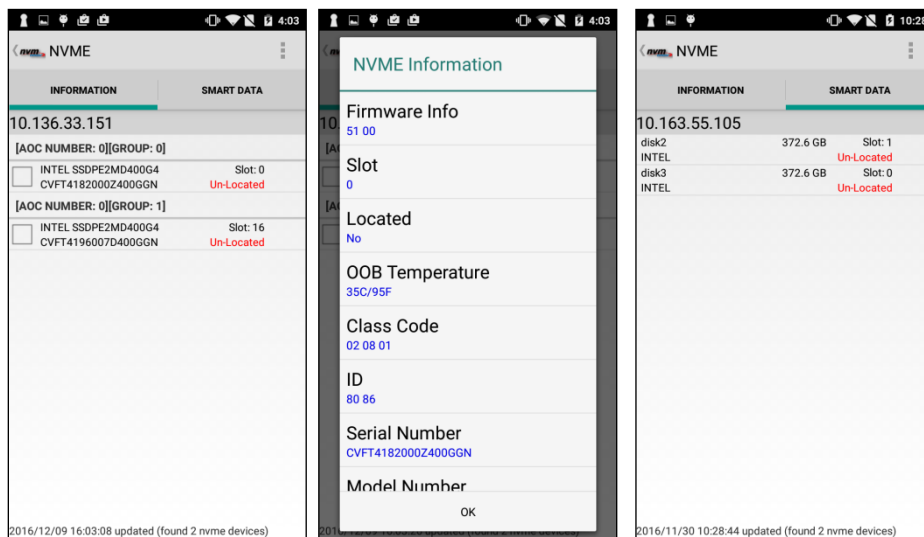
4.13 Summary

Slide the screen from left to right to show the BMC summary.




4.14 NVME

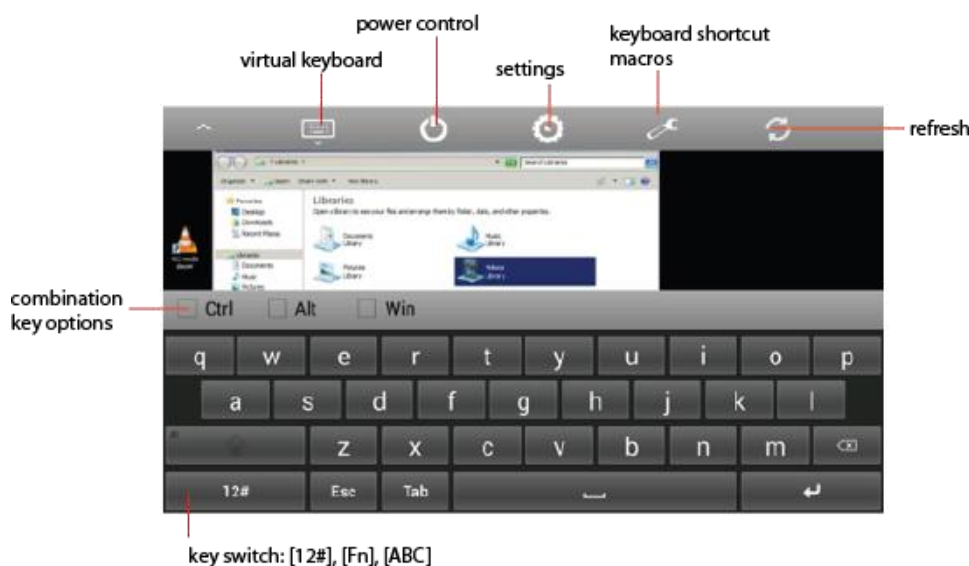
This option displays the status of an NVME system. The SMART tab will need TAS installed to provide OS information.




5. Using the KVM Keyboard

A virtual keyboard on the screen is provided when you access the KVM console. To call up the virtual keyboard, tap the icon  on the menu bar.

5.1 Overview of Virtual Keyboard




- The options [Ctrl], [Alt] and [Win] above on the virtual keyboard act as combination keys.
- The key  is used to switch between caps and symbol keypads.
- The keys [12#], [Fn] and [ABC] are combined into one key. Tap the key to switch between different keyboards for input options.

6. Backup and Restoration

6.1 Backup

To back up the IPMIView settings for Android, follow these steps:


1. Tap the **Menu** button on the device or the icon  in the action bar, select **Settings**, and then select **Backup**.
2. The data is stored in .smc format. Two storage options are provided:
 - E-Mail: The backup file is sent to the designated e-mail address.
 - External storage: The backup file is automatically saved in an SD card installed in the device.



Note: For Gmail of Android 6.0, go to **Settings**, select **App**, select Gmail, select Permissions, and enable **Storage**.

6.2 Restoration


To restore the previous settings with the backup file, follow these steps:

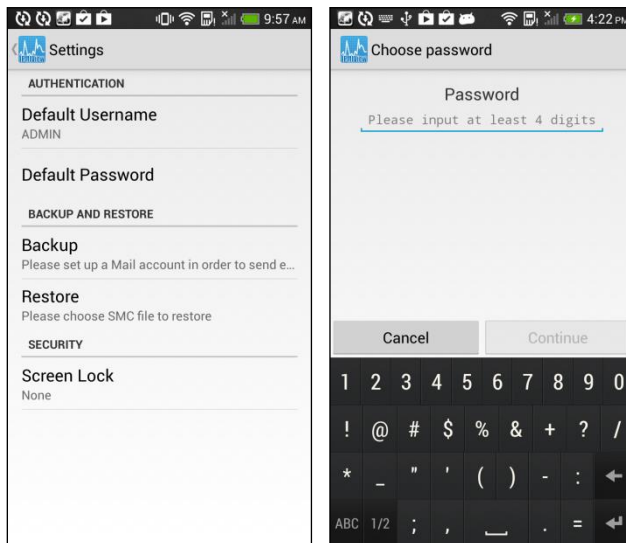
1. Tap the **Menu** button on the device or the icon  in the action bar, select **Settings**, and then select **Restore**.
2. The SD card page screen appears. Scroll down to locate and open the Supermicro folder.
3. Tap the backup data file to start restoration.

7. Security Lock Screen

7.1 Enabling/Disabling Screen Lock

If you want your application to be secure, follow these steps:

1. Tap the **Menu** button on the device or the icon  in the action bar, select **Settings**, and then select **Screen Lock**.
2. Enter a password, and click **Continue** to finish the setup.



3. If you want to disable the function, follow the steps above.

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