

# **Management Console User's Guide (AST 2500 Chipset)**

Version: 1.2

# Table of Contents

Using Your Management Console.....	2
Management Console Key Features and Functions .....	3
Software Install .....	4
Prerequisites on remote management PC.....	4
Install Java Tool.....	4
Management Console Network Configuration .....	5
Using the Web UI.....	6
Management Console Overview .....	7
Enter Management Console.....	8
Properties .....	8
Configuration .....	9
Network.....	9
Network Security .....	10
Security .....	11
Users .....	12
Services .....	13
Time Setting .....	14
Language.....	15
Sessions.....	16
LDAP .....	17
Updates .....	18
Utilities.....	19
Server Information .....	20
LEDs .....	20
Sensor Monitor.....	21
Power Control .....	22
Power Consumption.....	23
System Event Log .....	24
Platform Event .....	25
Trap Settings .....	26
Email Settings .....	27
Serial Over LAN.....	28
vKVM & vMedia .....	29
vKVM Viewer and Virtual Media Session Lanuch.....	29
vKVM & vMedia Session Configuration.....	31
System Information.....	32
Processor Information .....	32
Memory Device Information.....	33
Storage Information .....	34
System NIC Information .....	35

## Using Your Management Console

The Management Console has a user-friendly Graphics User Interface (GUI) called the Management Console GUI. It is designed to be easy to use. It has a low learning curve because it uses a standard Internet browser. You can expect to be up and running in less than five minutes. This chapter allows you to become familiar with the Management Console GUI's various functions. Each function is described in detail.



## Management Console Key Features and Functions

- Support IPMI v2.0
- Out-of-band monitoring and control for server management over LAN.
- FRU information report includes main board part number, product name, and manufacturer, etc.)
- Health status/Hardware monitoring report.
- Events log, view, and clear.
- Event notification via PET (Platform Event Trap).
- Platform Event Filtering (PEF) to take selected action for selected events.
- Chassis management includes power control and status report, front panel buttons and LEDs control.
- Support multi-session user, and alert destination for LAN channel.

## Software Install

### Prerequisites on remote management PC

Before installing Java tool, please check your system for the following required configuration requirements:

- Supported Browsers:
  - Internet Explorer 8 - 11
  - Google chrome Version 29.0.1547.66m
  - Firefox 2.0
- JAVA Recommended Version 6.45 or Below (file size: ~ 16691KB)

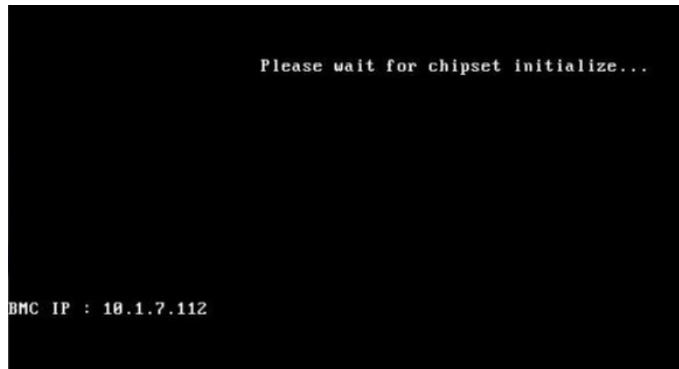
### Install Java Tool

Please follow the instruction to install Java in Windows operating system.

1. Go to <http://www.java.com>
2. Click Download on the middle of the home page.
3. Click on Agree and Start Free Download
4. Click see all Java downloads
5. Choose the folder location. (Save the file to a known location on your computer)
6. Click Save.
7. Click Yes to replace.
8. Verify that the
  - Name of the file is jre-6u45-windows-i586.exe
  - Size is approximately 16691KB.
9. Close all applications including the browser.
10. Double-click on the saved file icon to start the installation process.

## Management Console Network Configuration

Please follow the instruction to enable the console redirection function.  
You can gather the IP address.



## Using the Web UI

The BMC firmware features an embedded web server, enabling users to connect to the BMC using an Internet browser (Microsoft® Internet Explorer™).

The web server shall support 4 concurrent connections

Web-based GUI is supported on the following browsers:

### **Microsoft Windows:**

- Internet Explorer 8 ~ 11
- Mozilla® Firefox® 2.0 or later

### **Linux:**

Mozilla Firefox 2.0 or later

## Management Console Overview



Logon to:

Username:

Password:

OK Cancel

1. Open a web browser and type in your identified IP. The IP address can be found using your DHCP server.
2. A dialog box prompts you to enter Username and Password.
3. Enter the following values:  
Username: **admin**  
Password: **password**



When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.



# Enter Management Console

After you successfully log into your Management Console, the Remote Management Console GUI appears.

## Properties

Properties displays the firmware version of current remote client system.

Embedded Management Software Support Help About Logout

**Properties** [Refresh](#)

**Platform Information**

Manufacturer	GIGABYTE
Product Name	H261-NNN-NJ
BIOS Version	D11
BIOS Release Date	03/06/2017
GMC IPv4 Address	192.168.0.120

**Firmware Information**

Product Name	MergePoint EMS
Product Information	MergePoint Embedded Management Software
Firmware Version	0.42
Firmware Updated	17 Mar 2017, 09:24:24 (UTC+0000)
ASIC Type	ast2500

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:40:16 (UTC+0000)

## Configuration Network

You can view and modify the network settings on this screen. Select the Network **Mode** from the drop-down list.

### 1. Dedicate Mode

When set to Dedicate Mode, you can configure the BMC related settings through the BMC port.

### 2. Shared Mode\*\*

When set to Shared Mode, you can configure the BMC related settings through the NIC2 port. (Shared NIC Mode)

**NOTE: Function available on selected models.**

### 3. Failover Mode

When set to Failover Mode, you can configure the BMC related settings through the BMC or NIC2 port. (Backup Mode)

When you finish configuration, click **Apply Change**.

Please note that the changes may not take effect immediately, click "Refresh" to take effect of changes.

**NOTE: Function available on selected models.**

Embedded Management Software Support Help About Logout

### Network

[Apply Changes](#) [Refresh](#)

#### General Settings

**i** To change the Network settings may change IP address settings.  
Each change to settings may cause a loss in connectivity and the termination of all sessions.  
Changes may not take effect immediately.

Mode	<input type="text" value="1"/>
Host Name	<input type="text" value="ENS"/>
DNS Domain Name	<input type="text" value="gigabyte.intra"/>
Global DNS	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled
Global Dynamic DNS	<input type="radio"/> Enabled <input type="radio"/> Disabled <input checked="" type="radio"/> By Interface

#### Network Interface Configuration

Name	iF Enabled	IPv4 Enabled	IPv4 Address	IPv6 Enabled	IPv6 Address
eth1	Enabled	Enabled	IP	Enabled	IP

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:42:23 (UTC+0000)

## Network Security

You can configure the network security settings on this screen. Check the **IP Blocking Enabled** box and input the desire value of **IP Blocking Fail Count**, **IP Blocking Fail Window**, and **IP Blocking Penalty Time**. After you finish the configuration, click **Apply Change** to save the settings.

Embedded Management Software Support Help About Logout

### Network Security

[Apply Changes](#)

Use this page to configure the network security settings.

IP Blocking Enabled	<input type="checkbox"/>		
IP Blocking Fail Count	<input type="text" value="5"/>		
IP Blocking Fail Window	<input type="text" value="60"/>	Seconds	
IP Blocking Penalty Time	<input type="text" value="300"/>	Seconds	

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:42:52 (UTC+0000)

## Security

The Security page shows the current certificate status.

To generate a new certificate, click **Generate Certificate**.

To upload a certificate, click **Upload Certificate**.

The screenshot displays the 'Security' page in the Embedded Management Software interface. The page title is 'Security' and it features two buttons: 'Generate Certificate' and 'Upload Certificate'. Below these buttons, the 'Current Certificate:' section displays the following details:

```
Serial Number      : D04477A404A37178
Subject Information:
Country Code (CC) : US
State (S)         : FL
Locality (L)      : Sunrise
Organization (O)  : Avocent
Organizational Unit (OU) : AESS
Common Name (CN)  : avocent.com

Issuer Information:
Country Code (CC) : US
State (S)         : FL
Locality (L)      : Sunrise
Organization (O)  : Avocent
Organizational Unit (OU) : AESS
Common Name (CN)  : avocent.com

Valid From        : 09 Mar 2017, 06:10:15 (UTC+0000)
Valid To          : 07 Mar 2027, 06:10:15 (UTC+0000)
```

The interface includes a navigation menu on the left with categories like EMS, Configuration, Server Information, and Hardware. The top header shows 'Embedded Management Software' and 'Support Help About Logout'. The bottom status bar reads 'Welcome admin (Administrator)! Mon Feb 08 2016, 19:43:22 (UTC+0000)'.

## Users

To configure a specific user, click the Users ID. To display new user information, click **Refresh**.

**NOTE:** BMC convention for enabling an 'anonymous' login is to configure the entry for User ID 1 with a null username (all zero's) and a null password (all zero's). Applications may then present this to the user as an anonymous login.

Embedded Management Software Support Help About Logout

---

- EMMS
- Properties
- Configuration
  - Network
  - Network Security
  - Security
  - Users
  - Services
  - Time Settings
  - Language
- Sessions
- LDAP
- Update
- Utilities
- Fan Profiles
- Server Information
- LEDs
- Sensor Monitor
  - Power
  - Control
  - Consumption
- System Event Log
- Event Management
  - Platform Events
  - Trap Settings
  - Email Settings
- Serial Over LAN
- vKVM & vMedia
  - Launch
  - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Users

[Apply Changes](#) [Refresh](#)

To configure a particular user, click the User ID. If Password policy check is enabled, password strength checking will be enabled while updating user configuration.

Password Policy Check Enable

User ID	State	User Name	User Role	IPMI LAN Privilege	IPMI Serial Privilege	Serial Over LAN
1	Disabled		None	Administrator	Administrator	Enabled
2	Enabled	admin	Administrator	Administrator	Administrator	Enabled
3	Enabled	ADMIN	Administrator	Administrator	Administrator	Enabled
4	Disabled		None	None	None	Disabled
5	Disabled		None	None	None	Disabled
6	Disabled		None	None	None	Disabled
7	Disabled		None	None	None	Disabled
8	Disabled		None	None	None	Disabled
9	Disabled		None	None	None	Disabled
10	Disabled		None	None	None	Disabled
11	Disabled		None	None	None	Disabled
12	Disabled		None	None	None	Disabled
13	Disabled		None	None	None	Disabled
14	Disabled		None	None	None	Disabled
15	Disabled		None	None	None	Disabled
16	Disabled		None	None	None	Disabled

**Welcome admin (Administrator) ! Mon Feb 08 2016, 19:43:39 (UTC+0000)**

## Services

You can configure the web server parameters (such as, HTTP Port Number, HTTPS Port Number, and Timeout) on a remote computer. By default, the timeout is 1800 seconds.

When you finish the configuration, click **Apply Changes**.

Embedded Management Software Support Help About Logout

---

- EMS
- Properties
  - Configuration
    - Network
    - Network Security
    - Security
    - Users
    - Services
    - Time Settings
    - Language
  - Sessions
  - LDAP
  - Update
  - Utilities
  - Fan Profiles
- Server Information
  - LEDs
  - Sensor Monitor
  - Power
    - Control
    - Consumption
  - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
  - vKVM & vMedia
    - Launch
    - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Services

[Apply Changes](#)

#### Web Server

HTTP Port Number	<input type="text" value="80"/>
HTTPS Port Number	<input type="text" value="443"/>
Timeout	<input type="text" value="1800"/> seconds
Max Sessions	32
Active Sessions	1

## Time Setting

This page provides the mechanism to configure the Network Time acquisition method. With Administrator or Operator privilege level, you can modify configuration settings and click the Apply Changes button to execute the settings, as well as click the Sync Time Now button (when in Requested Mode) to request an immediate clock set.

## Operation Mode

Configures the NTP Mode. You can Disable NTP, set **Requested Mode**, or **Daemon Mode** in this parameter.

In **Requested Mode**, you can request an immediate clock synchronization with the NTP server; request will be sent when click the Sync Time Now button.

The **Daemon Mode** runs NTP daemon which sends a NTP request at approximately 5 minute intervals. Multiple NTP servers may be specified to provide redundancy.

## Time Synchronization Method

Specifies the synchronization method for Requested Mode. Select **Slew mode** when you want to adjust the time smoothly over time if there are time sensitive applications in place. Select **Step mode** to aggressively change the time using settimeofday() system call.

Embedded Management Software Support Help About Logout

### Time Settings

[Sync Time Now](#) [Apply Changes](#) [Refresh](#)

Use this page to configure the Network Time Protocol and Time Zone settings.

#### Network Time Protocol

Operation Mode	Disabled
NTP Server 1	
NTP Server 2	
NTP Server 3	
Requested Mode's Update Frequency (minutes)	3
Time Synchronization Method	<input checked="" type="radio"/> Step Mode <input type="radio"/> Slew Mode

#### Time Zone Setting

**i** The Client Time Zone can be changed from modify the time zone of client operating system.

Use Server or Client Time Zone	<input checked="" type="radio"/> Server Time Zone <input type="radio"/> Client Time Zone
Server Time Zone	UTC <a href="#">Select...</a> <a href="#">Set to UTC</a>

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:44:17 (UTC+0000)

# Language

This page allow users to choose preferred language when using the WebUI.

When you finish the configuration, click **Apply Change**.

The screenshot shows the 'Language' configuration page in the Embedded Management Software (EMS) web interface. The page has a blue header with 'Embedded Management Software' on the left and 'Support Help About Logout' on the right. A left-hand navigation menu is visible, listing various configuration categories such as EMS, Properties, Configuration, Network, Security, Users, Services, Time Settings, Language, Sessions, LDAP, Update, Utilities, Fan Profiles, Server Information, LEDs, Sensor Monitor, Power, Control, Consumption, System Event Log, Event Management, Platform Events, Trap Settings, Email Settings, Serial Over LAN, vKVM & vMedia, Launch, Configuration, Hardware, CPU, Memory, Storage, and System NIC. The main content area is titled 'Language' and contains a text box with a dropdown menu set to 'English'. Below the text box is a description: 'This page provides the language display setting for WebGUI, Virtual KVM Viewer, and Virtual Media Session.' To the right of the text box are two buttons: 'Apply Changes' and 'Refresh'. At the bottom right of the page, a status message reads: 'Welcome admin (Administrator) ! Mon Feb 08 2016, 19:44:46 (UTC+0000)'.



## Sessions

This screen displays information on Active Sessions. Additionally, the trash can icon provides the delete function for privileged users. Click Session log to view the session log. Click **Refresh** to refresh the Sessions status.

Embedded Management Software Support Help About Logout

---

- EMS
- Properties
  - Configuration
    - Network
    - Network Security
    - Security
    - Users
    - Services
    - Time Settings
    - Language
  - Sessions
  - LDAP
  - Update
  - Utilities
  - Fan Profiles
- Server Information
  - LEDs
  - Sensor Monitor
  - Power
    - Control
    - Consumption
  - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
  - vKVM & vMedia
    - Launch
    - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Sessions

[Session Log](#) [Refresh](#)

Use this page to view information about the active sessions. Additionally, privileged users can click on the trash can icon to kill an active session.

Session ID	User Name	IP Address	Session Type	Kill
1	admin	10.1.7.51	GUI	N/A

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:45:00 (UTC+0000)

## LDAP

LDAP screen allows download user list of LDAP server then create Management Console user account from this list directly.

Check the box below to enable LDAP authentication and enter the required information to access the LDAP server. Click **Apply Changes** to save your changes.

Embedded Management Software Support Help About Logout

### LDAP Configuration Page

[Apply Changes](#) [Refresh](#)

Use this page to configure Lightweight Directory Access Protocol (LDAP).

Enable LDAP

ⓘ Before uploading certificate, any change to Certificate File Path should be saved.

File Path  [Upload Certificate](#)

Enable Encryption for LDAP client	<input checked="" type="checkbox"/>
Validate Server Certificate at Binding	<input type="checkbox"/>
Certificate File Path	<input type="text" value="/etc/certs/cacerts/ldap.cert"/>
Use DNS to find servers	<input type="checkbox"/>
Domain Source	<input type="text" value="Use Domain from Login"/>
Domain Name for DNS SRV request	<input type="text"/>
Service Name	<input type="text" value="ldap"/>
Domain Controller 1	<input type="text"/>
Domain Controller 1's Port	<input type="text" value="389"/>
Domain Controller 2	<input type="text"/>
Domain Controller 2's Port	<input type="text" value="389"/>

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:45:17 (UTC+0000)

## Updates

The firmware can be updated remotely.

To update firmware, follow the instruction below:

1. Select Update Type.
2. Select the file on your local system by using **Browse**.

Click **Upload** to update to the new version of firmware.

The screenshot shows the 'Firmware Update' page in the Embedded Management Software (EMS) interface. The page has a blue header with 'Embedded Management Software' on the left and 'Support Help About Logout' on the right. A left-hand navigation menu lists various system settings categories such as EMS, Configuration, Server Information, and Hardware. The main content area is titled 'Firmware Update' and includes a 'Dump Bios Image' button. Below this is an 'Upload' section with an information icon and a warning: 'Select an image file and click upload. The upload process will terminate all other sessions including Virtual KVM Viewer and Virtual Media Session. After the upload process is started, any attempt to refresh, logout or navigate away from the update page will restart the system.' The form contains a 'Firmware Type' dropdown menu set to 'BMC' and a 'File Path' input field with a '浏览...' (Browse) button. An 'Upload' button is positioned to the right of the file path field. At the bottom right of the page, a status bar reads 'Welcome admin (Administrator) ! Mon Feb 08 2016, 19:45:32 (UTC+0000)'.

## Utilities

Utilities provides BMC reboot and Factory default restore functions.

1. To reboot system, click **Reboot**.
2. To restore factory default, click **Factory Default**.
3. To Adjust the PWM offset for the system fans, enter offset values and click **Submit**.
4. To update Logo, select the file on your local system using **Browse** and click **Update**.

The screenshot displays the Embedded Management Software (EMS) interface. The top navigation bar includes 'Support', 'Help', 'About', and 'Logout'. The left sidebar menu is expanded to show 'Utilities'. The main content area is titled 'Utilities' and contains two functional sections:

- Reboot**: A section with the instruction 'Click 'Reboot' button to reboot Embedded Management Software.' and a blue 'Reboot' button.
- Factory Default**: A section with the instruction 'Click 'Factory Default' button to reset Embedded Management Software to default.' and a blue 'Factory Default' button.

The status bar at the bottom of the page indicates the user is 'admin (Administrator)' and the date/time is 'Mon Feb 08 2016, 19:45:56 (UTC+0000)'.

# Server Information

## LEDs

Click **Turn On** to light on the front panel ID indication LED remotely.

Embedded Management Software Support Help About Logout

---

- EMS
  - Properties
    - Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - Time Settings
      - Language
    - Sessions
    - LDAP
    - Update
    - Utilities
    - Fan Profiles
  - Server Information
    - LEDs
    - Sensor Monitor
      - Power
        - Control
        - Consumption
    - System Event Log
    - Event Management
      - Platform Events
      - Trap Settings
      - Email Settings
    - Serial Over LAN
    - vKVM & vMedia
      - Launch
      - Configuration
  - Hardware
    - CPU
    - Memory
    - Storage
    - System NIC

### LEDs

[Refresh](#)

Use the page to view the status of the LEDs. Note that turning on/off LED may not take effect immediately. You may need to refresh the page to view the latest status of the LEDs.

#### Chassis Identifier LED

Status	Action
Ⓜ	<a href="#" style="background-color: #0056b3; color: white; padding: 2px 5px; border: 1px solid #0056b3;">Turn On</a>

# Sensor Monitor

The Sensor monitor provides general configuration for related system hardware monitoring. To view the Probe list, click **Show Graph**. And click **Refresh** to update current probe list.

**Sensor Monitor**

Auto Refresh Interval: Never Auto-Refresh  
 Sensor Type: Temperatures  
 Display Type:  All Sensors  Active Sensors

**Probe List**

Status	Probe Name	Reading	Lower Non-Critical	Upper Non-Critical	Lower Critical	Upper Critical	Lower Non-Recoverable	Upper Non-Recoverable
?	CPU0_TEMP	Unavailable	5 °C	93 °C	0 °C	96 °C	N/A	N/A
?	CPU0_DTS	Unavailable	N/A	N/A	N/A	N/A	N/A	N/A
?	CPU1_TEMP	Unavailable	5 °C	88 °C	0 °C	93 °C	N/A	N/A
?	CPU1_DTS	Unavailable	N/A	N/A	N/A	N/A	N/A	N/A
?	DIMMG0_TEMP	Unavailable	5 °C	75 °C	0 °C	80 °C	N/A	N/A
?	DIMMG1_TEMP	Unavailable	5 °C	75 °C	0 °C	80 °C	N/A	N/A
?	DIMMG2_TEMP	Unavailable	5 °C	75 °C	0 °C	80 °C	N/A	N/A
?	DIMMG3_TEMP	Unavailable	5 °C	75 °C	0 °C	80 °C	N/A	N/A
?	PCH_TEMP	Unavailable	5 °C	111 °C	0 °C	116 °C	N/A	N/A
✓	MB_TEMP1	29 °C	5 °C	55 °C	0 °C	60 °C	N/A	N/A
✓	MB_TEMP2	35 °C	5 °C	55 °C	0 °C	60 °C	N/A	N/A
✓	VR_P0_TEMP	35 °C	5 °C	88 °C	0 °C	93 °C	N/A	N/A
?	VR_P1_TEMP	Unavailable	5 °C	88 °C	0 °C	93 °C	N/A	N/A

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:46:56 (UTC+0000)

## Power Control

The Power Control allows you to power on/off/cycle, Hard Reset/NMI/Soft Off System the remote host system. Additionally you can see the remote power status.

To perform the power control operation, select the operation and click **Apply Changes**.

Embedded Management Software Support Help About Logout

**Power Control**

In this page, you can view your server's power status and click Refresh to refresh the screen. To perform a power control operation, select the operation you wish to perform and click Apply Changes.

**Power Status**  
ON

**Power Control Operations**

- Power On System
- Power Off System
- Power Cycle System
- Hard Reset (Restart)
- NMI
- Soft Off System

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:48:01 (UTC+0000)

# Power Consumption

This section allows user to configure the power policies for the system.

Embedded Management Software Support Help About Logout

- EMS
  - Properties
  - Configuration
    - Network
    - Network Security
    - Security
    - Users
    - Services
    - Time Settings
    - Language
  - Sessions
  - LDAP
  - Update
  - Utilities
  - Fan Profiles
- Server Information
  - LEDs
  - Sensor Monitor
  - Power
    - Control
      - Consumption
  - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
  - Email Settings
- Serial Over LAN
- vKVM & vMedia
  - Launch
  - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

## Power Consumption

[Show Watts Graph](#) [Apply Changes](#) [Refresh](#)

### Power Reading

Current Power Consumption	0 W   0 BTU/hr
Max Power Consumption	0 W   0 BTU/hr
Min Power Consumption	0 W   0 BTU/hr
Average Power Consumption	0 W   0 BTU/hr

### Power Limit

Power Limit Management Activated	<input type="checkbox"/>
Power Limit in Watts	<input type="text" value="0"/>
Sampling Period	<input type="text" value="0"/> seconds
Correction Time Limit	<input type="text" value="0"/> milliseconds
Exception Action	OEM defined actions

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:48:29 (UTC+0000)



# System Event Log

It records the event when sensor has an abnormal state. When the log matches the pre-defined alert, the system sends out the notification automatically, if it is pre-configured.

The screenshot shows the 'System Event Log' page in the Embedded Management Software. The interface includes a navigation menu on the left, a main content area with a table of events, and a status bar at the bottom.

**System Event Log**

Buttons: Clear Log, Save Log, Refresh

To sort system event logs, click the 'Date/Time'.

System Event Count (Current / Maximum) 13 / 1024

Severity	Date/Time	Description
✓	2016-02-08 16:36:02 (UTC+0000)	CPU0_Status: Processor sensor, Processor Presence detected was asserted
✓	2016-02-08 17:04:47 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 17:04:52 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 17:04:57 (UTC+0000)	System Software event: System Event sensor, Timestamp Clock Synch was asserted
✓	2016-02-08 17:06:00 (UTC+0000)	System Software event: System Event sensor, Timestamp Clock Synch was asserted
✓	2016-02-08 18:40:27 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 18:40:31 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:26:42 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:26:47 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:30:46 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:30:50 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:32:06 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted
✓	2016-02-08 19:32:10 (UTC+0000)	System Software event: System Event sensor, OEM System Boot Event was asserted

1 |

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:48:44 (UTC+0000)

## Platform Event

A platform event filter (PEF) can trigger an action and generate an alert when a critical hardware-related event occurs. For each PEF, you can choose the action to be taken when a platform event occurs.

You can also choose to generate and send an alert when a platform event occurs. In the Platform Events screen, you can enable the generation of platform event alerts globally by clicking Global Alerting Enable.

When you finish the configuration, click **Apply Changes**.

**Platform Events**

Platform Event Filters (PEF) Action Global Control List

Action Name
<input checked="" type="checkbox"/> Reboot
<input checked="" type="checkbox"/> Power Cycle
<input checked="" type="checkbox"/> Power Off
<input checked="" type="checkbox"/> Generate PET

Platform Event Filters (PEF) List

Global Alerting Enable Note: (This enables/disables both PEF and email alerts).

Filter Name	None	Reboot	Power Cycle	Power Off	Generate PET
Threshold Type, Temperature Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Temperature Warning Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Voltage Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Voltage Warning Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Fan Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Threshold Type, Fan Warning Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Chassis Intrusion Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Processor Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Sensor-specific Type, Power Supply Critical Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:49:05 (UTC+0000)

## Trap Settings

In the Trap Settings, user can set the IPv4 and Ipv6 Destination List.

IPv6 and IPv4 are two completely separate protocols. IPv6 is not backwards compatible with IPv4, and IPv4 hosts and routers will not be able to deal directly with IPv6 traffic.

IPv6 has a significantly larger address space than IPv4. This results from the use of a 128-bit address, whereas IPv4 uses only 32 bits.

When you finish the configuration, click **Apply Changes**.

Embedded Management Software Support Help About Logout

---

- EMS
- Properties
  - Configuration
    - Network
    - Network Security
    - Security
    - Users
    - Services
    - Time Settings
    - Language
  - Sessions
  - LDAP
  - Update
  - Utilities
  - Fan Profiles
- Server Information
  - LEDs
  - Sensor Monitor
  - Power
    - Control
    - Consumption
  - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
- vKVM & vMedia
  - Launch
  - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Trap Settings

[MIB Download](#) [Apply Changes](#)

ⓘ Before sending test trap, please make sure changes to the target Destination and Community String have been saved by clicking Apply Changes.

#### IP Destination List

Destination	Enable	IPv4/IPv6	IP Address	Test
IP Destination 1	<input type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 2	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 3	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 4	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 5	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 6	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 7	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>
IP Destination 8	<input type="checkbox"/>	<input type="radio"/> <input checked="" type="radio"/>	<input type="text" value="0.0.0.0"/>	<a href="#">Send Test Trap</a>

#### Community String

Community Name

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:49:45 (UTC+0000)

## Email Settings

If you want the alert to be sent by email, you can configure to specify the e-mail address, subject and message in the Email Settings. After you finish the configuration, click Apply Change to save the settings.

### SMTP

Set E-mail (SMTP) server IP address for sending alert notification to user.

Check the SMTP Authentication **Enabled** box and enter the **SMTP IP address**, **User Name**, **Password**; select the **STARTTLS Mode** and **SASL Mode** from the drop-down list.

When you finish the configuration, click “Apply Changes”.

The screenshot shows the 'Email Settings' configuration page in the Embedded Management Software. The page is titled 'Email Settings' and includes an 'Apply Changes' button in the top right corner. A warning message states: 'Before sending alert, please make sure changes to Sender Information, target Destination Email Address, SMTP (email) Server Settings, and SMTP Authentication have been saved by clicking Apply Changes.'

**Sender Information**

From: EMS@gigabyte.intra

**Destination Email Addresses**

	Enable	Destination Email Address	Email Description	Test
Email Alert 1	<input type="checkbox"/>		EMS_email_alert	Send Alert 1
Email Alert 2	<input type="checkbox"/>		EMS_email_alert	Send Alert 2
Email Alert 3	<input type="checkbox"/>		EMS_email_alert	Send Alert 3
Email Alert 4	<input type="checkbox"/>		EMS_email_alert	Send Alert 4

**SMTP (email) Server Settings**

SMTP IP Address: 0.0.0.0  
SMTP Port Number: 25

**SMTP Authentication**

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:50:07 (UTC+0000)

## Serial Over LAN

You can configure the Serial Over LAN settings on this screen. Check the **Enable Serial Over LAN** box and select the **Baud Rate** and **Channel Privilege Limit** from the drop-down list. After you finish the configuration, click **Apply Change** to save the settings.

The screenshot shows the 'Serial Over LAN' configuration page in the Embedded Management Software. The page has a blue header with 'Embedded Management Software' on the left and 'Support Help About Logout' on the right. A left sidebar contains a navigation menu with categories like EMS, Configuration, Sessions, Server Information, and Hardware. The main content area is titled 'Serial Over LAN' and features three configuration rows: 'Enable Serial Over LAN' with a checked checkbox, 'Baud Rate' with a dropdown menu set to '115.2 kbps', and 'Channel Privilege Level Limit' with a dropdown menu set to 'Administrator'. An 'Apply Changes' button is located in the top right corner of the configuration area. At the bottom right of the page, a status bar reads 'Welcome admin (Administrator)! Mon Feb 08 2016, 19:50:24 (UTC+0000)'.

# vKVM & vMedia

## vKVM Viewer and Virtual Media Session Launch

This screen allows you to start a Remote Console session with the host system.

Embedded Management Software Support Help About Logout

---

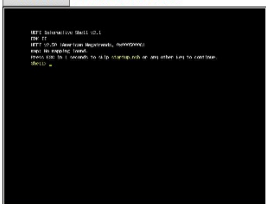
- EMS
  - Properties
    - Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - Time Settings
      - Language
    - Sessions
    - LDAP
    - Update
    - Utilities
    - Fan Profiles
  - Server Information
    - LEDs
    - Sensor Monitor
    - Power
      - Control
      - Consumption
    - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
  - vKVM & vMedia**
    - Launch**
    - Configuration
  - Hardware
    - CPU
    - Memory
    - Storage
    - System NIC

### Virtual KVM Viewer and Virtual Media Session Launch

[Launch Java vKVM Viewer](#)

**1** Use above button to launch KVM client. VM functionality can be activated in KVM client.  
Also you can preview console screen here. The preview image will be updated every 30 seconds automatically, or you can click the 'Refresh' button to refresh it manually. Note that console image will be unavailable if Virtual KVM Viewer does not detect video signal.  
The HTML5 vKVM Viewer works with these browsers: Mozilla® Firefox® 35+ Google Chrome™ 40+ Microsoft® Internet Explorer® (IE) 11+ Safari® 8+

[Refresh](#) Resolution : 800x600

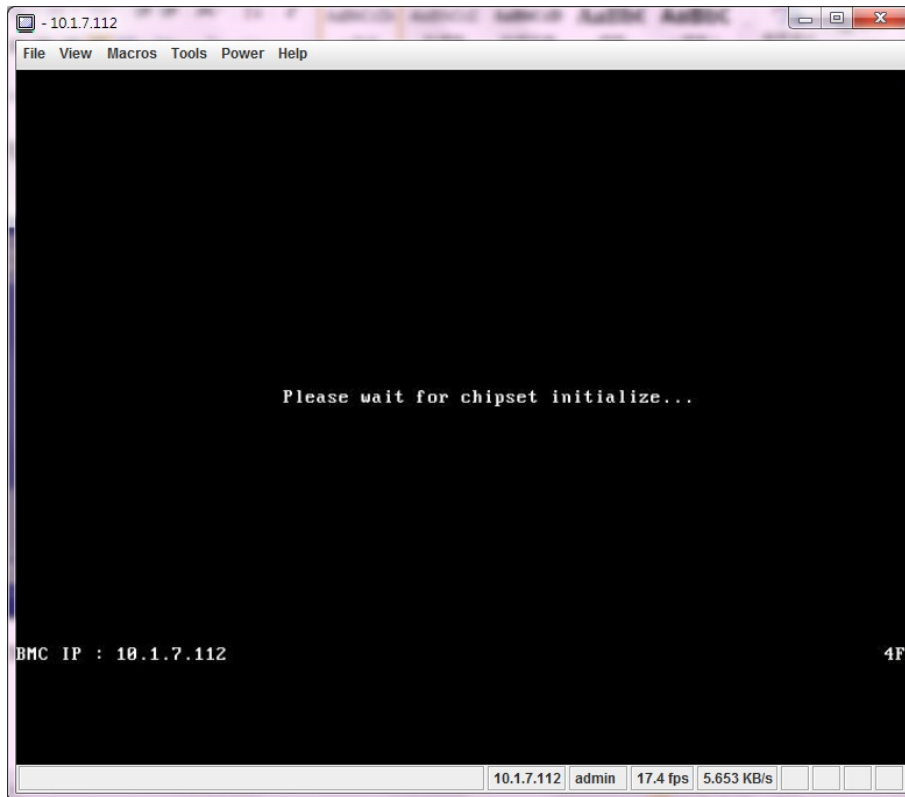


Virtual KVM Viewer Configuration		Virtual Media Session Configuration	
Enabled	Yes	Enabled	Yes
Max Sessions	4	Max Sessions	1
Active Sessions	0	Active Sessions	0
Remote Port	2068	Encryption Enabled	No
Video Encryption Enabled	Yes		
Preferred Client Type	Java		

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:50:53 (UTC+0000)

### Launch Java KVM Viewer

Click **Launch Java KVM Viewer** to launch the redirection console and manage the server remotely. After clicking the button, a console appears as below:



## vkVM & vMedia Session Configuration

This screen allows you to configure the Remote Console settings. Check the Virtual KVM Configuration **Enabled** box or Virtual Media Configuration **Enabled** box, and select the **Max Sessions**, **Remote Port**, **Video Encryption Enabled**, and **Preference Client** from the drop-down list. After you finish the configuration, click **Apply Change** to save the settings.

Embedded Management Software Support Help About Logout

---

- EMS
- Properties
- Configuration
  - Network
  - Network Security
  - Security
  - Users
  - Services
  - Time Settings
  - Language
- Sessions
- LDAP
- Update
- Utilities
- Fan Profiles
- Server Information
- LEDs
- Sensor Monitor
- Power
  - Control
  - Consumption
- System Event Log
- Event Management
  - Platform Events
  - Trap Settings
  - Email Settings
- Serial Over LAN
- vkVM & vMedia
  - Launch
  - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Virtual KVM Viewer and Virtual Media Session Configuration

[Apply Changes](#)

**Use this page to configure Virtual KVM Viewer and Virtual Media Session.**  
KVM/VM sessions using the HTML5 client when invoked using a HTTPS: webpage will always use encrypted connections and the encryption settings indicated here are not used.

Virtual KVM Viewer Configuration	
Enabled	<input checked="" type="checkbox"/>
Max Sessions	4
Remote Port	2068
Video Encryption Enabled	<input checked="" type="checkbox"/>
Preferred Client Type	Java

Virtual Media Session Configuration	
Enabled	<input checked="" type="checkbox"/>
Encryption Enabled	<input type="checkbox"/>

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:51:08 (UTC+0000)



# System Information

## Processor Information

This page displays the technical specifications of the installed processor.

Embedded Management Software Support Help About Logout

---

- EMS
  - Properties
    - Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - Time Settings
      - Language
    - Sessions
    - LDAP
    - Update
    - Utilities
    - Fan Profiles
  - Server Information
    - LEDs
    - Sensor Monitor
    - Power
      - Control
      - Consumption
    - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
  - vKVM & vMedia
    - Launch
    - Configuration
- Hardware
  - CPU
  - Memory
  - Storage
  - System NIC

### Processor Information

[Refresh](#)

Status	Name	Processor Brand	Processor Version	Current Speed	State	Core Count
	CPU0	Intel(R) Corporation	Intel(R) Genuine processor	2400 MHz	Processor Presence Detected	12
	CPU1	NOT SPECIFIED	NOT SPECIFIED	0 MHz	Processor Presence Detected	0

# Memory Device Information

This page displays the technical specifications of the installed memory.

Click **Refresh** to refresh current installed memory information.

Embedded Management Software Support Help About Logout

---

- EMS
  - Properties
    - Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - Time Settings
      - Language
    - Sessions
    - LDAP
    - Update
    - Utilities
    - Fan Profiles
  - Server Information
    - LEDs
    - Sensor Monitor
      - Power
        - Control
        - Consumption
    - System Event Log
  - Event Management
    - Platform Events
    - Trap Settings
    - Email Settings
  - Serial Over LAN
    - vkVM & vMedia
    - Launch
    - Configuration
  - Hardware
    - CPU
    - Memory
    - Storage
    - System NIC

## Memory Information

[Refresh](#)

### Memory Attributes

Installed Capacity	8.00 GB
Maximum Capacity	Information Not Available
Slots Available	Information Not Available
Slots Used	1
Error Correction	Information Not Available

### Individual Memory Details

Summary Management

Status	Connector Name	Type	Size	State	Rank	Speed
?	DIMM_P0_A0	DDR4	8.00 GB	Information Not Available	Single Rank	2133 MHz
?	DIMM_P0_A1	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_B0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_C0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_D0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_D1	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_E0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P0_F0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P1_G0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P1_G1	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz
?	DIMM_P1_H0	Unknown	0.00 GB	Information Not Available	Information Not Available	0 MHz

## Storage Information

This page displays the connected hard disk drive and hardware health information.

Click **Refresh** to view connected hard disk drive hardware health status.

Embedded Management Software Support Help About Logout

**Storage** Refresh

**SATA Device**

Device Name	Device Size	Serial Number	FW Version	Security Status
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support

**sSATA Device**

Device Name	Device Size	Serial Number	FW Version	Security Status
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support
NO HDD	0 MB	No Support	No Support	No Support

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:52:07 (UTC+0000)

## System NIC Information

This page displays the connected hard disk drive and hardware health information.

Click **Refresh** to view the onboard LAN device related information .

Embedded Management Software Support Help About Logout

---

- EMS
  - Properties
    - Configuration
      - Network
      - Network Security
      - Security
      - Users
      - Services
      - Time Settings
      - Language
    - Sessions
    - LDAP
    - Update
    - Utilities
    - Fan Profiles
  - Server Information
    - LEDs
    - Sensor Monitor
      - Power
        - Control
        - Consumption
    - System Event Log
    - Event Management
      - Platform Events
      - Trap Settings
      - Email Settings
    - Serial Over LAN
    - vKVM & vMedia
      - Launch
      - Configuration
  - Hardware
    - CPU
    - Memory
    - Storage
    - System NIC

### System NIC

[Refresh](#)

**System NIC status**

Information on this page will be updated only when system boot.

Manufacturer	MAC Address	OnBoard LAN
N/A	1C:1B:0D:B6:AA:92	N/A
N/A	1C:1B:0D:B6:AA:93	N/A

Welcome admin (Administrator) ! Mon Feb 08 2016, 19:52:30 (UTC+0000)