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Using Your Gigabyte Content Management System Console

The Gigabyte Content Management System Console has a user-friendly Graphics User Interface (GUI) called the Gigabyte Content Management System 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 Gigabyte Content Management System Console GUI’s various functions. Each function is described in detail.
Gigabyte Content Management System 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.
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 6 and 7
- Mozilla® Firefox® 2.0 or later

**Linux:**

Mozilla Firefox 2.0 or later
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

The default user name and password are in lower-case characters.

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 Gigabyte Content Management System Console

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

Properties

Properties displays the firmware version of current remote client system.
Configuration

Network

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

**Dedicate Mode**

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

**Shared Mode**

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

**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.
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.
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.
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.
IPMI
This screen contains two sections: IPMI Serial and IPMI Settings.

IPMI Serial
There are four serial configuration in IPMI Serial: Connection Mode Settings, Baud Rate, Flow Control, and Channel Privilege Level Limit.

The Connection Mode Settings allows user to select the Console redirection type and to manage the system from a remote location.

Once the connection mode is set, select the Baud Rate and Flow Control from the drop-down list.

With Channel Privilege Level Limit, users can be configured to operate with a particular maximum Privilege Level. Privilege levels tell the BMC which commands are allowed to be executed. The following table shows the Channel Privilege Level.

<table>
<thead>
<tr>
<th>Users</th>
<th>This may be considered the lowest privilege level.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator</td>
<td>All BMC commands are allowed, except for configuration commands that can change the behavior of the out-of-band interfaces. For example, Operator privilege does not allow the capability to disable individual channels, or change user access privileges.</td>
</tr>
<tr>
<td>Administrator</td>
<td>All BMC commands are allowed, including configuration commands. An Administrator can even execute configuration commands that would disable the channel that the Administrator is communicating over.</td>
</tr>
</tbody>
</table>
IPMI Settings
IPMI Settings provides remote configuration over LAN. To activate IPMI remote configuration by LAN, check Enable IPMI Over LAN option, define the Channel Privilege Level Limit, and enter the Encryption Key.
When you finish the configuration, click “Apply Changes”.

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

LDAP screen allows download user list of LDAP server then create Gigabyte Content Management System 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.
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 using Browse.
Click **Upload** to update to the new version of firmware.
Utilities
Utilities provides BMC reboot and Factory default restore functions.

1. To reboot system, click **Reboot**.
2. To restore factory default, click **Factory Default**.
Server Information

Power Control

The Power Control allows you to power on/off/cycle 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.
Voltages

This screen displays the status of system power consumption.
Each sensor displays different color to indicate the health status of a specified device.

- The green color indicates the device is healthy and there’s no sensor that has any alert.
- The yellow color indicates the device has at least one sensor that has warning alert.
- The red color indicates the device has at least one sensor that has a critical alert.

Click **Refresh** to update current system voltages.
Thermal
This screen displays the Fans and Temperatures sensors of a remote host system.
Click **Refresh** to update current health status for both Fans and Temperatures.

- The green color indicates the device is healthy and there’s no sensor that has any alert.
- The yellow color indicates the device has at least one sensor that has a warning alert.
- The red color indicates the device has at least one sensor that has a critical alert.

Fans

<table>
<thead>
<tr>
<th>Status</th>
<th>Probe Name</th>
<th>Reading</th>
<th>Warning Threshold</th>
<th>Failure Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>GPG FAN1</td>
<td>0 RPM</td>
<td>3000 RPM</td>
<td>3000 RPM</td>
</tr>
<tr>
<td></td>
<td>GPG FAN1</td>
<td>700 RPM</td>
<td>4000 RPM</td>
<td>3000 RPM</td>
</tr>
<tr>
<td></td>
<td>GPG FAN2</td>
<td>0 RPM</td>
<td>4000 RPM</td>
<td>3000 RPM</td>
</tr>
<tr>
<td></td>
<td>GPG FAN3</td>
<td>0 RPM</td>
<td>4000 RPM</td>
<td>3000 RPM</td>
</tr>
</tbody>
</table>

GIGABYTE™
Welcome root [administrator]!
Wed Oct 12 20XX 10:20:14

Gigabyte Content Management System
- Properties
- Network
- Security
- Users
- Server Information
- Events
- System Event Log
- FailSafe
- Remote Control
- Remote Control Configuration
## Temperature

### Temperatures

<table>
<thead>
<tr>
<th>Status</th>
<th>Probe Name</th>
<th>Reading</th>
<th>Warning Threshold Minimum</th>
<th>Warning Threshold Maximum</th>
<th>Failure Threshold Minimum</th>
<th>Failure Threshold Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>89°F Temp1</td>
<td>37°C</td>
<td>NA</td>
<td>50°</td>
<td>NA</td>
<td>60°</td>
</tr>
<tr>
<td></td>
<td>89°F Temp2</td>
<td>37°C</td>
<td>NA</td>
<td>60°</td>
<td>NA</td>
<td>60°</td>
</tr>
<tr>
<td></td>
<td>CPU Temp</td>
<td>40°C</td>
<td>NA</td>
<td>50°</td>
<td>NA</td>
<td>50°</td>
</tr>
</tbody>
</table>
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.
Event Management
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**.
**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**.
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”.
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.
Remote Console

Console Redirection

This screen allows you to start a Remote Console session with the host system.
Click **Launch Java KVM Client** to launch the redirection console and manage the server remotely. After clicking the button, a console appears as below:
Console Redirection 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.