



GSM Server

Installation and Configuration Guide

Rev. 1.1

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Documentation Classifications

In order to assist in the use of this product, GIGABYTE provides the following types of documentations:

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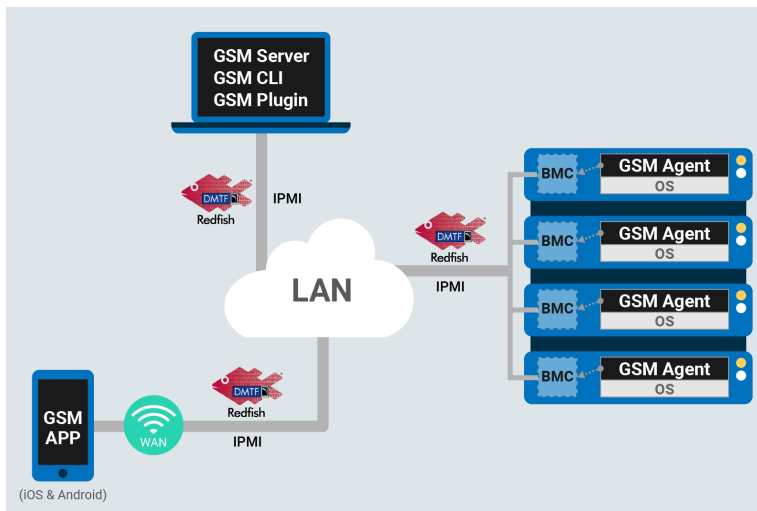
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Chapter 1 GSM Server Overview

1-1 GSM (GIGABYTE Server Management) Software Package Overview



GSM (GIGABYTE Server Management) is GIGABYTE's proprietary multiple server remote management software platform. GSM is compatible with either IPMI or Redfish (RESTful API) connection interfaces, and comprises the following

GSM Server, a software program with an easy to use browser-based GUI to enable global remote monitoring and management of multiple GIGABYTE servers via each server node's BMC.

GSM CLI (GBT Utility), a command-line interface program to enable global remote monitoring and management of multiple GIGABYTE servers via each server node's BMC.

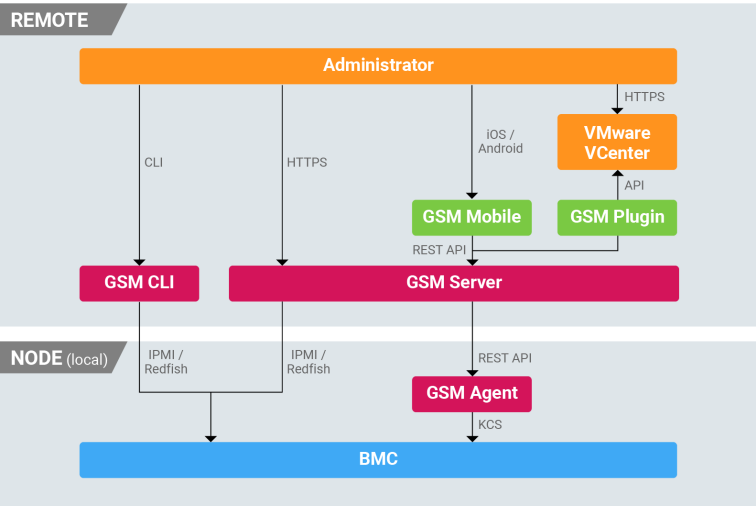
GSM Agent, a software program installed locally on each GIGABYTE server node that retrieves additional node information (CPU/Mem/HDD/PCI/...) from the OS and passes it to the BMC. This information can then be utilized by GSM Server or GSM CLI.

GSM Mobile, a remote server management mobile APP, available for both Android and iOS.

GSM Plugin, a plugin available for VMware's vCenter, allowing the user to perform remote

monitoring and management of GIGABYTE server nodes without having to switch to a separate software platform.

A logical diagram of these different software sub-programs can be seen below:



Each sub-program is available to download for free from each GIGABYTE server product page*.

*Depending on product compatibility, some programs may not be available. Please download GSM Mobile from the Google (Android) or iOS Store.

Chapter 2 GSM Server Installation

2-1 Using GSM Server

GSM (Gigabyte Server management) Server has a user-friendly Graphics User Interface (GUI) called the GSM Server 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 GSM Server GUI's various functions. Each function is described in detail.

2-2 Hardware Requirements

Before using GSM Server, please check your system for the following required configuration requirements:

- System Processor: 2 GHz and above
- System Memory: Minimum 4 GB RAM
- Free Disk Space: 1000 GB at least
- Node servers : 255 maximum

2-3 Software Requirements

2-3-1 Prerequisites for remote management server

Supported Browsers:

- Internet Explorer 9 or later
- Google Chrome 39.0.2171.65 m or later
- Mozilla Firefox 33.1.1

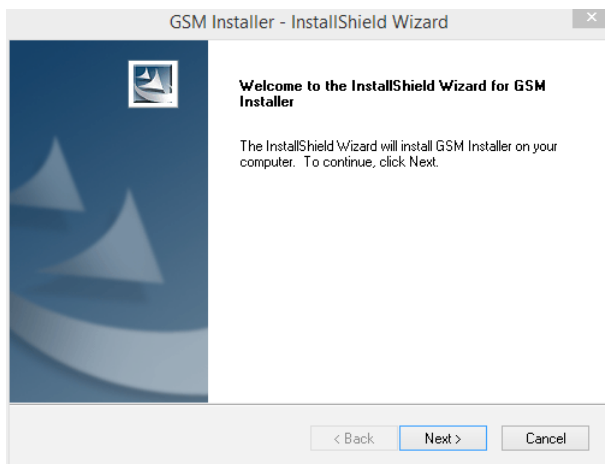
Operating System:

- Windows 2008 & 2012 R2
- Redhat/CentOS 6.3 or later

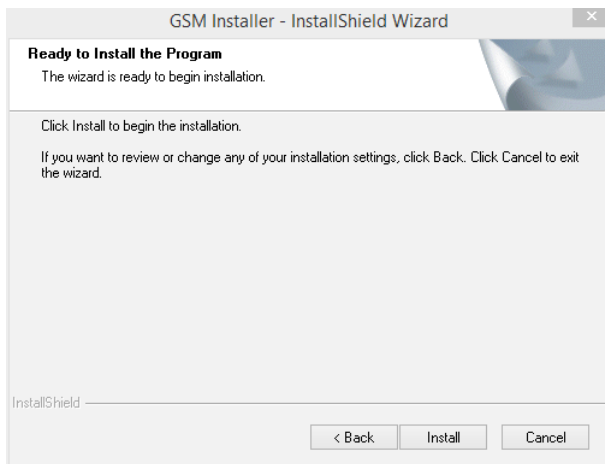
2-4 Installing GSM Server (Windows)

2-4-1 Installation Procedure

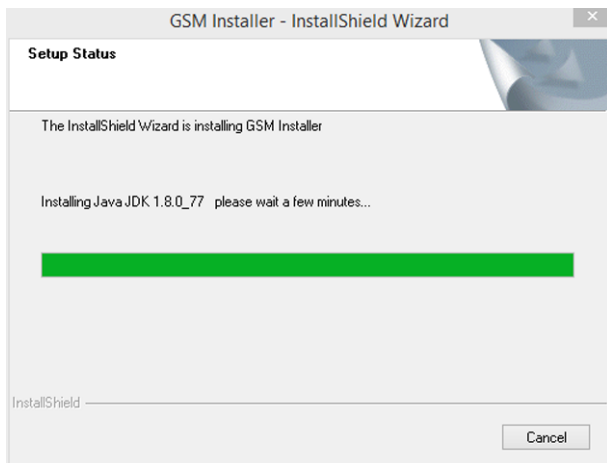
1. Unzip the file and run **GSM_Setup.exe**.
2. Then, a series of installation wizards appear.
3. Click **Next**.



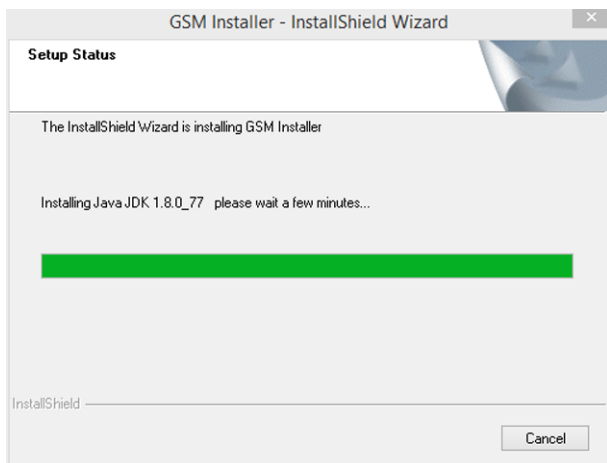
4. Click **Install** to start the installation.



5. Installing preparation files.

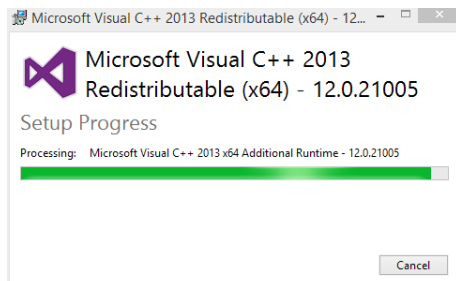


6. Installing Java JDK, this may take few mintues to complete installation.

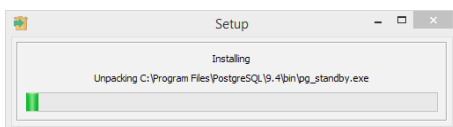


CAUTION! Please make sure you have enough space on your hard drive for the program.

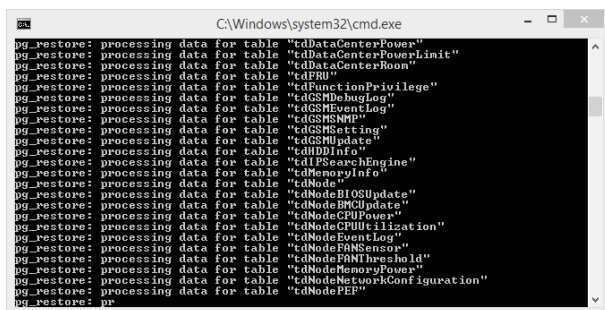
7. Installing Visual C++.



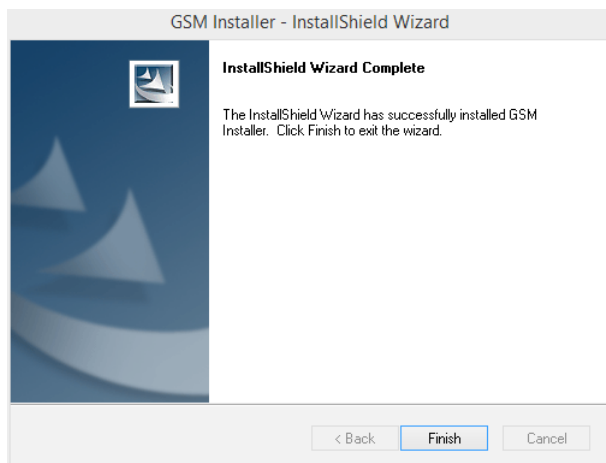
8. Installing PostgreSQL.



9. Setting Database of PostgreSQL.



10. Installation completed, click **Finish**.



2-5 Installing GSM Server (Linux)

2-5-1 Installation/Uninstallation Steps for Ubuntu, Debian (Login as root)

1. Before installation, please check the packages `sudo` and `ufw` are already installed. Otherwise, GSM Server installation will fail.
`#apt-get install sudo ufw`
2. Use deb package to install GSM Server.
`#dpkg -i gsm_x.x_all.deb`
3. Installer will patch PostgreSQL which does not install yet and ask user to set password to PostgreSQL.

```
## Initializing pg95 #####  
  
Superuser Password [password]:  
Confirm Password:  
Setting directory and file permissions
```

4. Make sure the package 'fontconfig' is already installed before starting GSM Server.
Install the package: 'fontconfig'.
`#apt-get install fontconfig`
5. Finish and start up the GSM Server web page.
Connect to GSM Server: `http://{your IP address}:8080/GSM`
6. Uninstall GSM Server
`#dpkg -r gsm`



NOTE!

1. Installation will detect PostgreSQL 9.5 and modify its configuration. Please backup PostgreSQL settings before you install GSM Server. However, if PostgreSQL 9.5 doesn't exist, do not install any PostgreSQL and skip this suggestion, please.
2. Installation will install and place Java and PostgreSQL sources for GSM Server to `/opt`. Do not modify and remove them. It's very important.
3. After finishing installation, installer adds firewall exception, such as 8080, 8443, 162, 69 and `tftp`, to public zone. If you do not use public zone as default, please add firewall exception manually.

2-5-2 Installation/Uninstallation Steps for CentOS 7, RHEL, Fedora (Login as root)

1. Before installation, please check the packages `sudo` and `firewalld` are already installed. Otherwise, GSM Server installation will fail.
`#yum install sudo firewalld`
2. Use RPM package to install GSM Server.
`# rpm -ivh gsm-x.x-1.x86_64.rpm`
3. Installer will patch PostgreSQL which does not install yet and ask user to set password for PostgreSQL.

```
## Initializing pg95 #####  
Superuser Password [password]:  
Confirm Password:  
Setting directory and file permissions
```

4. Make sure the package 'fontconfig' is already installed before starting GSM Server.
Install the package: 'fontconfig'.
`#yum install fontconfig`
5. Finish and start up the GSM Server web page
Connect to GSM Server: `http://{your IP address}:8080/GSM`
6. Uninstall GSM Server
`#rpm -e gsm-x.x-1.x86_64`



NOTE!

1. Installation will detect PostgreSQL 9.2 and modify its configuration. Please backup PostgreSQL settings before you install GSM Server. However, if PostgreSQL 9.2 doesn't exist, do not install any PostgreSQL and skip this suggestion, please.
2. Installation will install and place Java and PostgreSQL sources for GSM Server to `/opt`. Do not modify and remove them. It's very important.
3. After finishing installation, installer adds firewall exception, such as 8080, 8443, 162, 69 and tftp, to public zone. If you do not use public zone as default, please add firewall exception manually.

2-5-3 Restore dbGSMv0XX.backup

1. Modify pg_hba.conf file

[Ubuntu]

```
vi /etc/postgresql/9.3/main/pg_hba.conf
```

[CentOS / Red Hat]

```
vi /var/lib/pgsql/9.3/data/pg_hba.conf
```

2. Edit

TYPE	DATABASE	USER	ADDRESS	METHOD
Local	all	all→postgres		peer→trust
host	all	all→postgres	127.0.0.1/32	indent→trust
host	all	all→postgres	:::1/128	indent→trust

.wq to save edited file.

3. Start service

[Ubuntu]

```
service postgresql restart
```

[CentOS / Red Hat]

```
service postgresql-9.3 start
```

4. Create database

```
createdb -U postgres dbGSM
```

5. Restore dbGSMv0XX.backup to database

```
pg_restore -h 127.0.0.1 -p 5432 -U postgres -d dbGSM -v " dbGSMv0XX.backup"
```

2-5-4 pgadminIII Installation Procedure (Optional)

[CentOS]

1. Install pgadmin3
`yum install pgadmin3_93`
2. Execute pgadmin3
`pgadmin3 &`
3. File -> Add server

[Redhat]

1. Get wxBase
`curl -O`
`http://yum.postgresql.org/9.2/redhat/rhel-6.5-x86\_64/wxBase-2.8.12-1.el6.x86\_64.rpm`
2. Install wxBase
`rpm -ivh wxBase-2.8.12-1.el6.x86_64.rpm`
3. Get wxGTK
`curl -O`
`http://yum.postgresql.org/9.2/redhat/rhel-6.5-x86\_64/wxGTK-2.8.12-1.el6.x86\_64.rpm`
4. Install wxGTK
`rpm -ivh wxGTK-2.8.12-1.el6.x86_64.rpm`
5. Get PgAdmin3
`curl -O`
`http://yum.postgresql.org/9.3/redhat/rhel-6.5-x86\_64/pgadmin3\_93-1.18.1-2.rhel6.x86\_64.rpm`
6. Install PgAdmin3
`rpm -ivh pgadmin3_93-1.18.1-2.rhel6.x86_64.rpm`
7. Execute pgadmin3
`pgadmin3 &`
8. File -> Add server

2-5-5 Login to GSM Server

1. Open a browser and enter the URL

`http://localhost:8080/GSM/`



- Before using the GSM Server Management Console, it is necessary to set the ports (8080, 8443, 69) of TCP & UDP to pass through the firewall, otherwise some functions may not be work functionally.

2. Enter Database User Name

`postgres`



- This utility is supported CentOS 6.3 or later versions.

- PostgreSQL must be execute in root authority.

In Fedora 19, you have to install package in the following:

Locate and edit your distributions .repo file, located:

`vi /etc/yum.repos.d/fedora.repo` and `/etc/yum.repos.d/fedora-updates.repo`
([fedora] sections)

Install PGDG RPM file:

`curl -O`

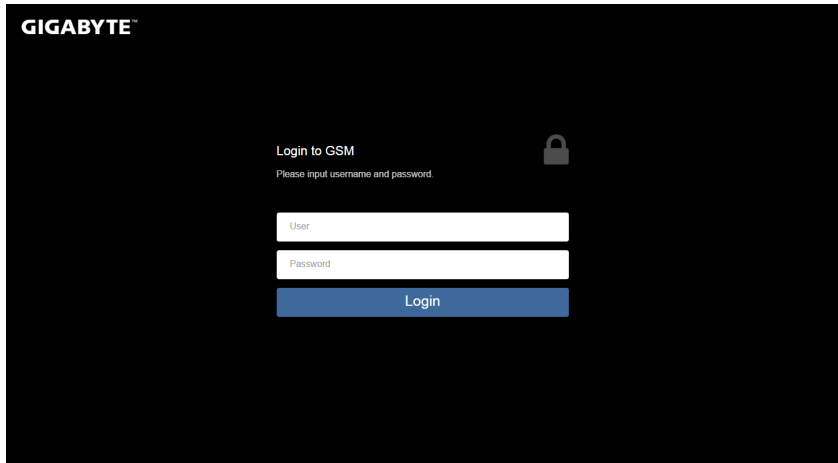
`http://yum.postgresql.org/9.3/redhat/rhel-6-x86_64/pgdg-centos93-9.3-1.noarch.rpm`

Initialize:

`/usr/pgsql-9.3/postgresql93-setup initdb`

Chapter 3 Using GSM Server

3-1 Overview



1. Open a web browser and type in your identified IP. The IP address can be found using your DHCP server.
2. 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.

3-1-1 GSM Server Setup Wizard

When you log into your GSM Server management console for the first time, you will be required to configure the basic settings via the setup wizard.

Setup Procedures:

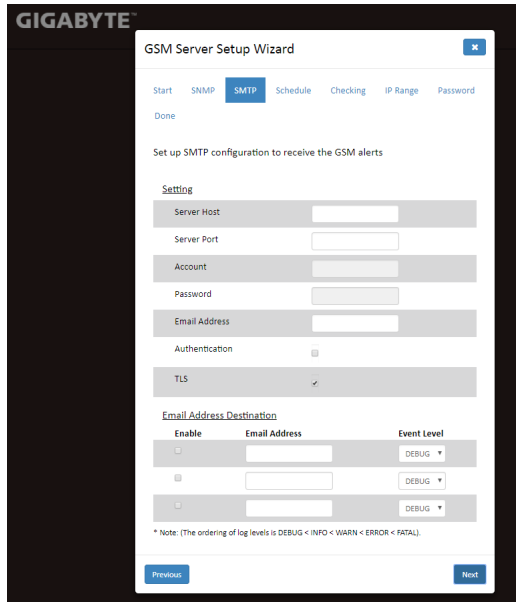
1. Select your preferred language and click **Next**.

The screenshot shows the 'GSM Server Setup Wizard' window. The 'Start' tab is selected in the top navigation bar. Below the tabs, the text 'Start the GSM Server setup wizard, please select your language:' is displayed. A dropdown menu shows 'English' as the selected language. At the bottom, there are 'Previous' and 'Next' buttons.

2. Configure the SNMP setting and click **Next**.

The screenshot shows the 'GSM Server Setup Wizard' window with the 'SNMP' tab selected. The text 'Set up SNMP configuration to receive the GSM alerts' is displayed. Under the 'Setting' section, there are three configuration items: 'Alerting Enable' (a toggle switch set to 'OFF'), 'Host Address' (a dropdown menu showing '10.1.7.77'), and 'Alerting Level' (a dropdown menu showing 'DEBUG'). A note below states: '* Note: (The ordering of log levels is DEBUG < INFO < WARN < ERROR < FATAL)'. Under the 'IPv4 Destination' section, there are four rows, each with an 'Enable' toggle switch (all set to 'OFF') and an 'IPv4 Address' input field (all showing '0.0.0.0'). At the bottom, there are 'Previous' and 'Next' buttons.

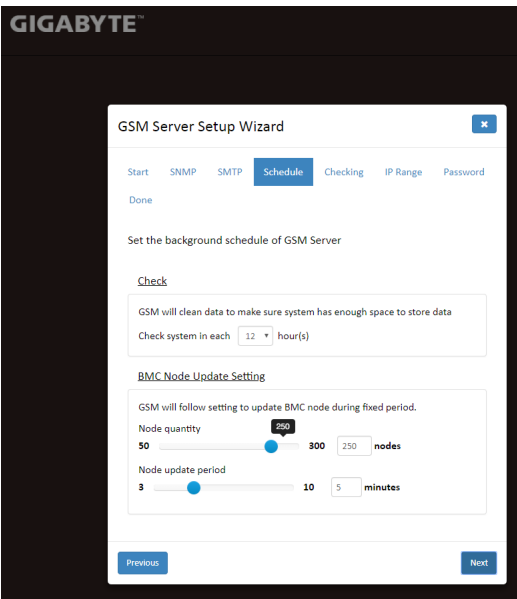
3. Configure the SMTP setting and click **Next**.



The screenshot shows the 'GSM Server Setup Wizard' window, specifically the 'SMTP' tab. The wizard has a progress bar at the top with steps: Start, SNMP, SMTP (selected), Schedule, Checking, IP Range, and Password. Below the progress bar, the text 'Set up SMTP configuration to receive the GSM alerts' is displayed. The 'Setting' section includes input fields for 'Server Host', 'Server Port', 'Account', 'Password', and 'Email Address'. There are checkboxes for 'Authentication' and 'TLS' (which is checked). The 'Email Address Destination' section has a table with three rows, each with an 'Enable' checkbox, an 'Email Address' input field, and an 'Event Level' dropdown menu (all set to 'DEBUG'). A note at the bottom states: '* Note: (The ordering of log levels is DEBUG < INFO < WARN < ERROR < FATAL)'. 'Previous' and 'Next' buttons are at the bottom.

Enable	Email Address	Event Level
☐		DEBUG
☐		DEBUG
☐		DEBUG

4. Set the Schedule and click **Next**.



The screenshot shows the 'GSM Server Setup Wizard' window, specifically the 'Schedule' tab. The progress bar at the top shows: Start, SNMP, SMTP, Schedule (selected), Checking, IP Range, and Password. The text 'Set the background schedule of GSM Server' is displayed. The 'Check' section has a text box stating 'GSM will clean data to make sure system has enough space to store data' and a dropdown menu 'Check system in each' set to '12' with the unit 'hour(s)'. The 'BMC Node Update Setting' section has a text box stating 'GSM will follow setting to update BMC node during fixed period.' It includes a 'Node quantity' slider from 50 to 300 (set to 250) and a 'Node update period' slider from 3 to 10 (set to 5) with the unit 'minutes'. 'Previous' and 'Next' buttons are at the bottom.

5. Set the check process and click **Next**.

The screenshot shows the 'GSM Server Setup Wizard' window with the 'Checking' tab selected. The 'Start' tab is also visible. The 'Checking' tab contains the following configuration options:

- Database:** A slider for 'In each routine check, GSM will check database usage and data date. If disk usage over the settings, GSM will delete data from database' is set to 90% (between 0% and 100%). Below it, 'Keep database data in' is set to 365 day(s).
- Log:** A text box for 'In each routine check, GSM will check log date' is empty. Below it, 'Keep log file in' is set to 7 day(s).

At the bottom, there are 'Previous' and 'Next' buttons.

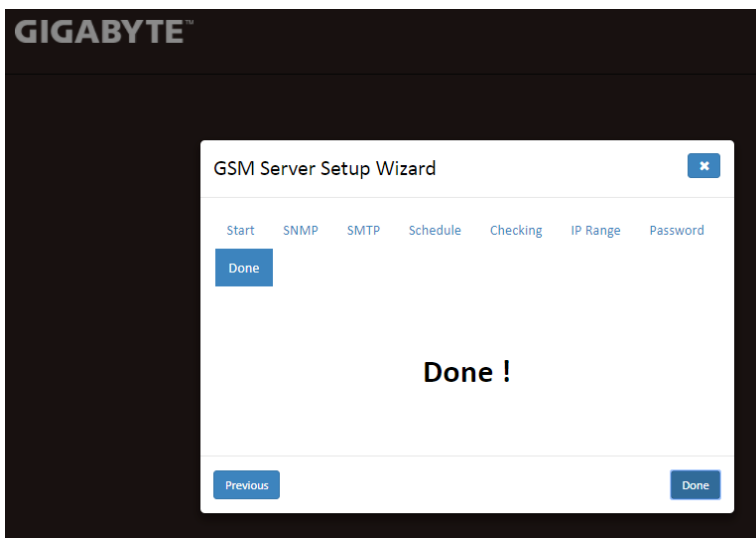
6. Configure the IP range and click **Next**.

The screenshot shows the 'GSM Server Setup Wizard' window with the 'IP Range' tab selected. The 'Checking' tab is also visible. The 'IP Range' tab contains the following configuration options:

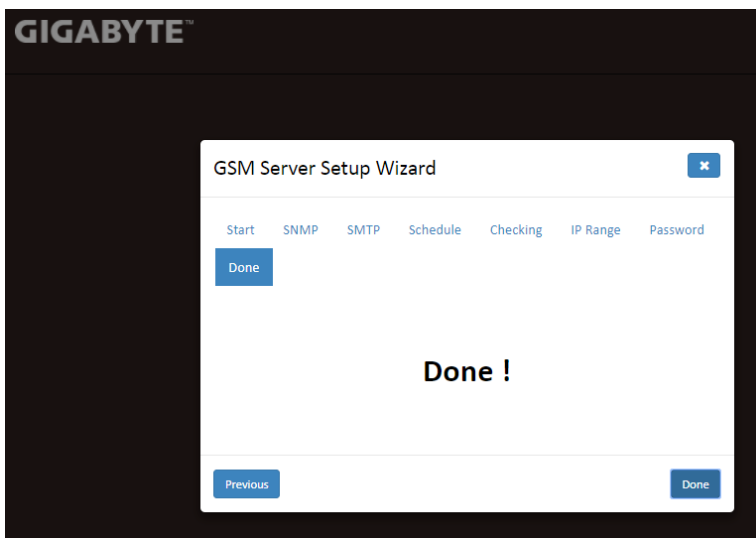
- Connection Interface:** A dropdown menu set to 'Auto'.
- Start IP:** A text box containing '10.1.7.1'.
- End IP:** A text box containing '10.1.7.255'.
- BMC, RMC, CMC:** Three checkboxes, all of which are checked.
- Policy Name:** A text box containing 'New policy'.

At the bottom, there are 'Previous' and 'Next' buttons.

7. Set the password for administrator and click **Next**.

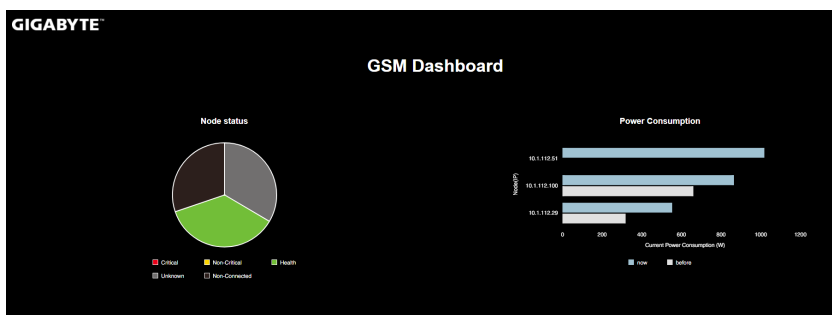


8. Setup completed, click **DONE** to close the wizard.



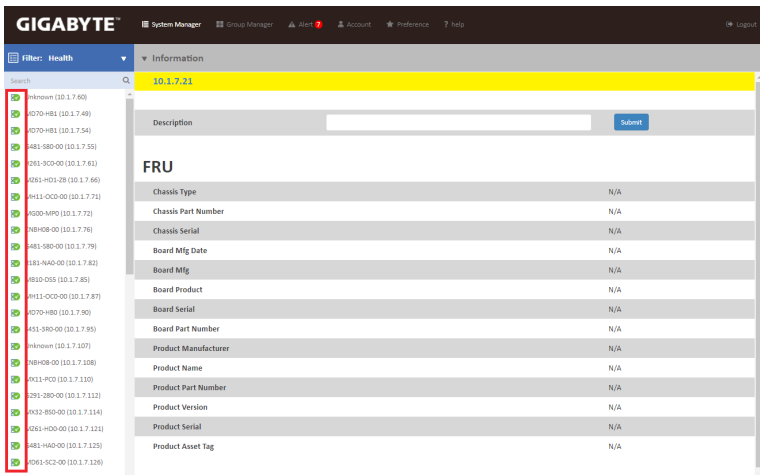
3-2 Enter GSM Server

After you successfully log into GSM Server, the Remote Management GUI appears. Click **Node Status image** for advanced configuration.



After you entering into your Management Console, the Management Console GUI appears.

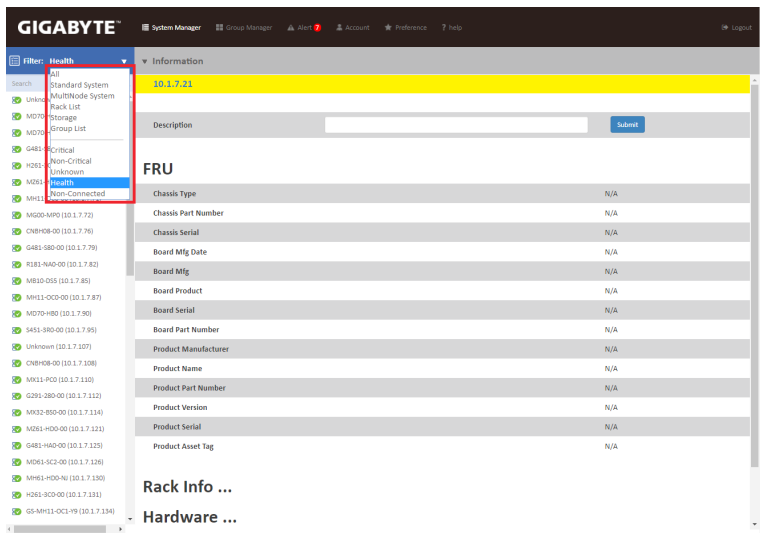
Management Console Information shows the general system health status of the current remote node. The node health status will appear on the left side in different colors, the definition of each color is described below:



Icon	Decription/Resulting Action
	Normal: All nodes and sensors are normal and there's no sensor that has any alert.
	Warning: There's at least one node/sensor that has warning alert.
	Unknown: There's a non-critical alert or an alert classified as unknown status.
	Critical: There's at least one node/sensor that has a critical alert.
	Not Connected: This indicates the identified node is not connected.

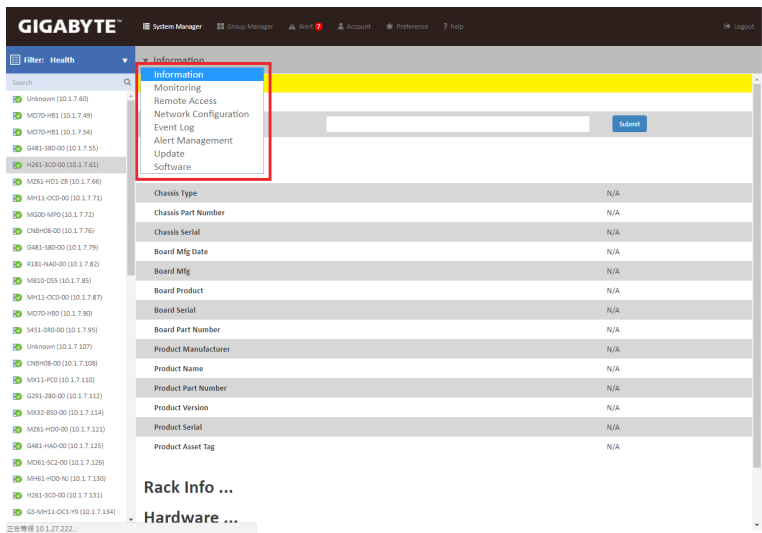
3-3 System Manager

System Manager lists all connected node systems. Click the drop-down list to filter and select specific node group.



Parameter	Decription/Resulting Action
Standard System	Server Node connected via BMC function.
MultiNode System	System Node connected via CMC function.
Rack List	System Node connected via RMC function.
Storage	Lists JBOD System nodes information.
Group List	Lists the grouped system node information.
Critical	There's at least one sensor that has a critical alert.
Non-critical	There's at least one sensor that has a warning alert.
Unknown	There's at least one sensor that has a unknown alert.
Health	All sensors are normal and there's no sensor that has any alert.
Non-Connected	There's non system node is connected.

And the click the drop-down list for advanced configuration.



3-3-1 Information

The **Information** is a display page for basic system health information, such as FRU information, Rack Information, Hardware Information, Software Information, and BIOS Information. Items on this window are non-configurable.

Information

10.1.112.66

Description

Submit

FRU

Chassis Type	RackMountChassis
Chassis Part Number	01234567
Chassis Serial	HGAP9500018
Board Mfg Date	Mon Jan 01 00:06:00 CST 1996
Board Mfg	GIGABYTE
Board Product	CMBH20-00
Board Serial	HGAP9500018
Board Part Number	123456789AB
Product Manufacturer	GIGABYTE
Product Name	CMBH20-00
Product Part Number	000000000001
Product Version	0100
Product Serial	01234567890123456789AB
Product Asset Tag	01234567890123456789AB

Rack Info ...

Hardware ...

Software ...

BIOS Info ...

3-3-2 Monitoring

Monitoring displays a real-time record of the node system fan and voltage information. Click **View** to check SDR of specified device.

SDR

Show detail

Show 10 entries

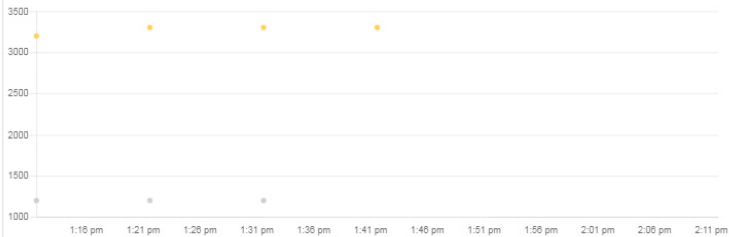
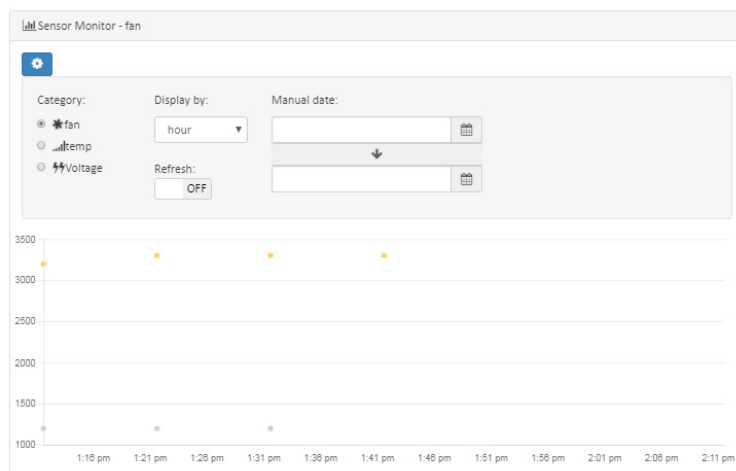
Search:

Status	Probe Name	Reading
Ok	VR_D_AB_P3V3	3.22 volt
Ok	CPU0_TEMP	41 °C
Ok	P_VBAT	3.07 volt
N/A	DIMM_P0_B0	Unavailable
N/A	DIMM_P0_B1	Unavailable
Ok	P_VDDQ_AB	1.23 volt
Ok	P_VDDQ_EF	1.24 volt
Ok	P_1V05_STBY_PCH	1.06 volt
Ok	P5V	5.01 volt
Ok	CPU1_TEMP	32 °C

Previous 1 2 3 4 5 ... 8 Next

Sensor Monitoring

Click  to monitor specified sensor and timeframe.



3-3-3 Remote Access

Remote Access provides the following remote functions:

- Power Control Configuration
- Chassis Identify
- Boot Option
- Launch iKVM
- Reboot BMC
- Restore BIOS default settings
- BIOS Setup information
- Mount/Unmount Virtual Media
- Network Time Protocol Configuration
- BMC Account Configuration
- BMC Agent Account Configuration
- BMC Backup/Restore Configure

Power Control

User can power on/off/cycle/and hard reset the remote host system in **Power Control**.

▼ Remote Access

10.1.7.226

Node Type:OFF

Power Control



Chassis Identify

Light on chassis identify in

0

 seconds|

Submit

Boot Option

Legacy

NONE

PXE

DISK

CDROM

BIOS

Icon	Decription/Resulting Action
	Power on system.
	Power off system.
	Power cycle system.
	Hard reset system.

- 29 -

GSM Server

Chassis Identify

Chassis Identify

Light on chassis identify in

0

 seconds

Submit

Boot Option

Boot Option

Legacy

NONE

PXE

DISK

CDROM

BIOS

iKVM

iKVM

Launch

Reboot BMC

Reboot BMC

RebootBMC

Restore BIOS default settings

Restore BIOS settings

Select files for restore BIOS settings. (File format: .log/.txt)

RemoveRestore

For BIOS load settings setup, need to check below files contain:
nvram.log
biosinfo.txt

BIOS Setup information

BIOS Setup information

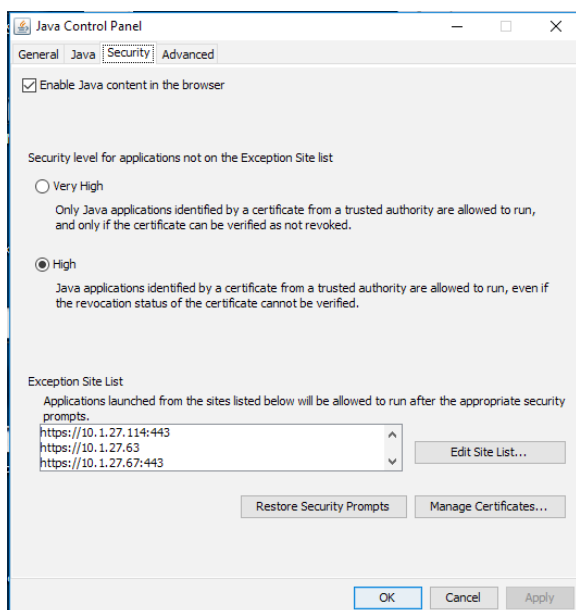
Select .JSON file for importing BIOS Setup information.

RemoveImportExport

Virtual Media
(Not yet supported on windows.)

Parameter	Decription/Resulting Action
Chassis Identify	Define the chassis lighting time. When you finish the configuration, click Submit .
Boot Option	Select boot option by clicking specified device tab.
iKVM	Click Launch to launch the redirection console and manage the server remotely. Please ensure that you have latest version of JAVA tool to active the Java KVM console. NOTE! Before using the KVM console, you need to set the Java security settings first. Then set the IP address of the remote system in the Exception Site List area.
Reboot BMC	Click RebootBMC to restart BMC.
Restore BIOS default settings	Click Browse and select the file on your local system and click Restore to restore BIOS default setting.
BIOS Setup Information	Click Export to retrieve the BIOS information Click Browse to select the file. Click Import to load the BIOS information into GSM Sever.

JAVA Security Settings



Virtual Media

The User can mount an ISO Image via Virtual Media function page.

Follow the instructions below to mount or unmount an ISO image.

1. To mount an ISO image, select the ISO image and click **Mount**.
2. To unmount an ISO image, select the ISO image and click **Unmount**.

Virtual Media

(Not yet supported on windows.)

Select by File (iso or imgl)

Select

File Name

File Size (MB)

Path

Select by Local Devices

Select

Name

Type

Size

Model

☐	/dev/sda	disk	465.8G	ST500DM002-1BD14
☐	/dev/sda1	part	54G	
☐	/dev/sda2	part	1.9G	

Port Number (Default:2068) : 2068

Mount

Unmount



NOTE! Virtual Media does not support Windows operating system.

Network Time Protocol

Network Time Protocol provides Network configuration. User can view and modify the network settings on this screen. Select the Operation Mode from the drop-down list.

Network Time Protocol

Operation Mode

Disabled

Network Time Protocol Server 1

XXXX.XXX.XXXX.XXXX

Network Time Protocol Server 2

XXXX.XXX.XXXX.XXXX

Network Time Protocol Server 3

XXXX.XXX.XXXX.XXXX

Requested Mode's Update Frequency (minutes)

byte 1

byte 2

Time Synchronization Method

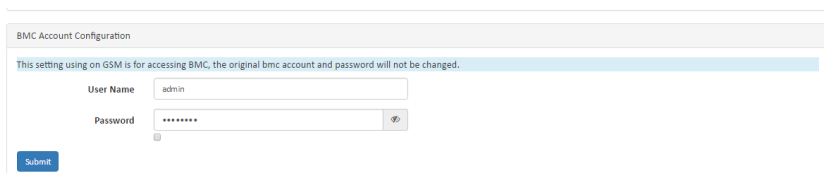
☒ Step Mode ☐ Slew Mode

Setting

Parameter	Decription/Resulting Action
Dedicate Mode	Request an immediate clock synchronization with the NTP server; the request will be sent when you click the Sync Time Now button.
Daemon Mode	Runs NTP daemon which sends a NTP request at approximately 5 minute intervals. Multiple NTP servers may be specified to provide redundancy.

BMC Account Configuration

User can configure the administrator ID and password in this section. After finishing configuration, click **Submit**.



BMC Account Configuration

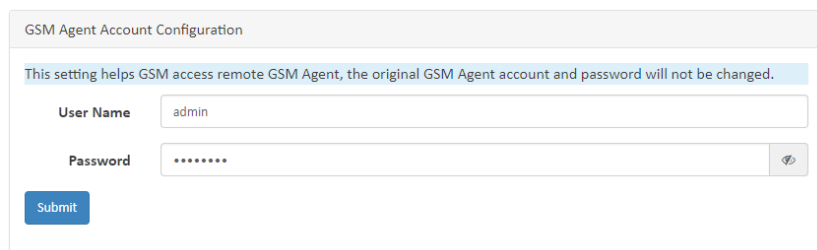
This setting using on GSM is for accessing BMC, the original bmc account and password will not be changed.

User Name

Password

GSM Agent Account Configuration

User can set the User Name and password to connect to the GSM Agent account. Click **Submit** when setting is complete.



GSM Agent Account Configuration

This setting helps GSM access remote GSM Agent, the original GSM Agent account and password will not be changed.

User Name

Password

BMC Back/Restore Configure

The BMC Back/Restore Configure allows users to backup and restore functions for the configured settings.

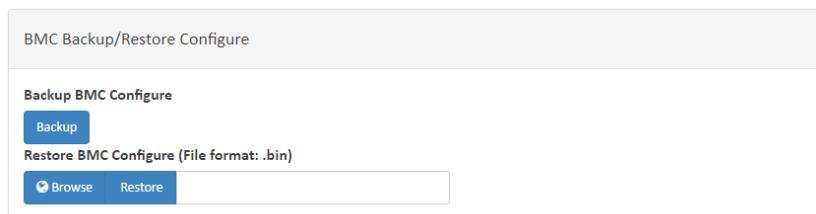
Click **Backup** to backup configured settings.

Click **Browse** and select the file on your local system.

Then click **Restore** to restore configured settings.



NOTE! BMC Back/Restore Configure function is only available on selected models.



BMC Backup/Restore Configure

Backup BMC Configure

Restore BMC Configure (File format: .bin)

3-3-4 Network Configuraiton

This page provides Group IPv4 and IPv6 DHCP configuration.

▼ Network Configuration

10.1.27.159

IPv4 Settings

Enabled

Enable

Use DHCP

ON

IP Address

10.1.27.159

Subnet Mask

255.255.255.0

Gateway

10.1.27.253

Submit

IPv6 Settings

Enabled

Enable

Use DHCP

ON

IP Address

:::0

Gateway

::

Link Local Address

fe80::a28d:5cff:feb1:ee6c/64

Submit

Parameter	Decription/Resulting Action
IPv4 setting	
IPv6 Setting	
Use DHCP	Click on tab to enable or disable this function
IP Address	Identify the IP address.
Subnet Mask	Configure the Subnet Mask address.
Gateway	Define the Gateway address

When you finish the configuration, clclick **Submit** to save your configuration.

3-3-5 Event Log

Event Log displays the connected Node system event log information.

Click **Clear** to clear current system event log.

Click **Download** to download current system event log.

NOTE!

Users can configure Severity, Event Dir & Sensor Type by selecting the drop-down bar.

Event Log

10.1.7.85

Node SEL

Clear

Download

Severity: Show All Event Dir: Show All Sensor Type: Show All

Show 10 entries

Search:

	Source	TimeStamp	Description
System	2016-05-14 09:01:21+08	System: "EventLoggingDisabled sensor" event was deassertion.	
System	2016-05-14 09:01:40+08	System: "OsBoot sensor" event was assertion. Event messa	
System	2016-05-14 09:03:21+08	MB_TEMP1: "Temperature sensor" event was assertion. Ev	
System	2016-05-14 09:03:54+08	MB_TEMP1: "Temperature sensor" event was assertion. Ev	
System	2016-05-14 09:04:22+08	CPU0_TEMP: "Temperature sensor" event was assertion. B	
System	2016-05-14 09:04:55+08	CPU0_TEMP: "Temperature sensor" event was assertion. B	
System	2016-05-14 09:08:48+08	System: "Processor sensor" event was assertion. Event mes	
System	2016-05-14 09:17:03+08	System: "SystemEvent sensor" event was assertion. Event r	
System	2016-05-14 09:17:04+08	System: "Processor sensor" event was deassertion. Event n	
System	2016-05-14 09:17:05+08	System: "SystemEvent sensor" event was assertion. Event r	

Showing 1 to 10 of 577 entries

Previous 1 2 3 4 5 ... 58 Next

3-3-6 Alert Management

Alert Management contains two categories: **SNMP Trap Setting** and **Platform Events Filters (PEF)**. Each category will be described in the following section.

SNMP Trap Setting

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 **Submit** to save configuration.

▼ Alert Management

10.1.27.159

SNMP Trap Setting

IPv4 Destination	Enable	IPv4 Address
1	☒	10.1.7.141
2	☒	10.1.7.44
3	☒	10.1.7.124
4	☒	192.168.58.1

IPv6 Destination	Enable	IPv6 Address
1	☐	::
2	☐	::
3	☐	::
4	☐	::

Submit

Platform Events Filters (PEF)

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. When you finish configuration, click **Submit**.

▼ Alert Management

Platform Events Filters (PEF)

Platform Events Filters (PEF) Action Global Control List

Action Name

☒ Reboot

☒ Power Cycle

☒ Power Off

☒ Generate PET

Events List

☒ Global Alerting Enable * Note: (This enables/disables both PEF alerts).

Filter Name	None	Reboot	Power Cycle	Power Off	Generate PET
Threshold Type, Temperature Critical Filter	☒ None	☐ Reboot	☐ Power Cycle	☐ Power Off	☐
Threshold Type, Temperature Warning Filter	☒ None	☒ Reboot	☒ Power Cycle	☒ Power Off	☐
Threshold Type, Voltage Critical Filter	☒ None	☐ Reboot	☐ Power Cycle	☐ Power Off	☐
Threshold Type, Voltage Warning Filter	☒ None	☒ Reboot	☒ Power Cycle	☒ Power Off	☐
Threshold Type, Fan Critical Filter	☒ None	☐ Reboot	☐ Power Cycle	☐ Power Off	☐
Threshold Type, Fan Warning Filter	☒ None	☒ Reboot	☒ Power Cycle	☒ Power Off	☐
Sensor-specific Type, Chassis Intrusion Critical Filter	☒ None	☐ Reboot	☐ Power Cycle	☐ Power Off	☐
Sensor-specific Type, Chassis Intrusion Informational Filter	☒ None	☒ Reboot	☒ Power Cycle	☒ Power Off	☐
Sensor-specific Type, Biosensor Critical Filter	☒ None	☐ Reboot	☐ Power Cycle	☐ Power Off	☐

3-3-7 Updates

The user can configure the TFTP server and update node last log, PSU/BMC/BIOS firmware, logo, CPLD and GSM Agent in this page.

To Configure the TFTP, follow the instruction below:

1. Select **ON** and define **Local** or **Remote**.
2. Enter the identified IP address and click Submit to complete the configuration.

To update specific items, follow the instructions below:

1. Select package from the drop-down list.
2. Select the file on your local system using **Browse**.
3. Click **Update** to update to the new version of firmware.

The screenshot shows a web interface for system updates. At the top, there's a yellow header bar with the text 'Update' and a version number '10.1.7.82'. Below this, the 'TFTP' section has two radio buttons, 'ON' and 'Local', with 'Local' selected. Next to it is a text field containing '10.1.27.22' and a 'Submit' button. The 'Update node' section displays 'BIOS Version: F17' and 'BMC Version: 11.48.45842'. It includes a dropdown menu for 'Select package and update (File format: .hex)' with 'PSU' selected, and 'Browse' and 'Update' buttons. The 'Update Logo' section has a text field for 'Select image and update (File format: .tar)' and 'Browse' and 'Update' buttons, with a note below: 'The upload file should include logo_left.png and logo_background.png packaged as tar, and should smaller than 50KB.' The 'Update CPLD' section has a text field for 'Select files and update (File format: .jbc)' and 'Browse' and 'Update' buttons, with a note: 'The upload file extensions should follow the rules: [bpb] xxx.vme / [mb] xxx.jbc.' The 'Update GSM Agent' section has a text field for 'Select files and update (File format: .war)' and 'Browse' and 'Update' buttons.



NOTE! To make sure the Update function works properly, please ensure the GSM Server and the BMC network connections are in the same domain before processing the Update function.

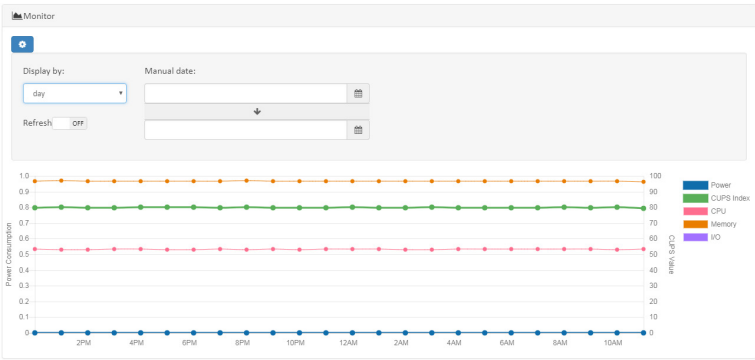
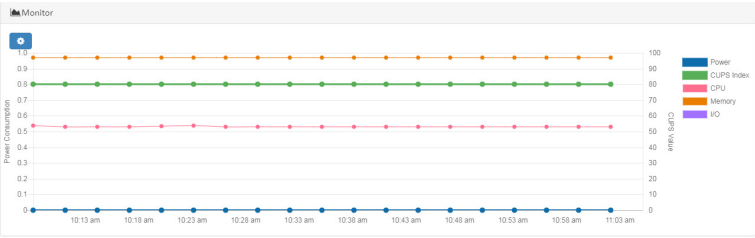
3-3-8 Power Consumption

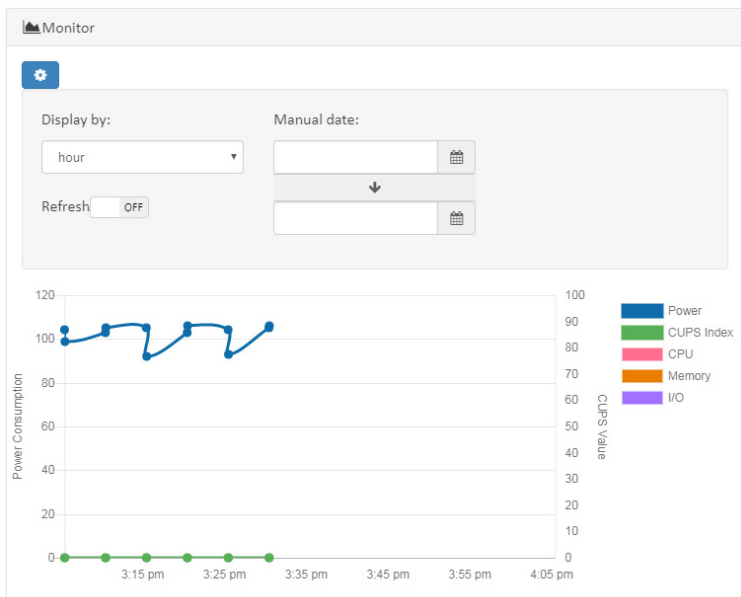
This screen displays information on the system power consumption. The information includes Current Power Consumption, Power Consumption Configuration and Power Consumption Monitoring.

To configure power limit, set Power Limit Management Activated to **ON** and input the value in the respective column. Click **Submit** to save the configuration.

Monitor

Click  to activate advanced configuration. When activating this function, the user can monitor power consumption and the CUPS value in different time periods.





3-3-9 GSM Agent

Use the GSM Agent to view the related software information. Software information includes System Info, Network Info, PCI Info, RAID Information and SMART Information. Please install GSM Agent separately on each server / node for which you wish to monitor this related information. Please see "GSM Agent User Manual" for more information.

▼ Software	
10.1.7.49	
Agent Status:On-line	
System Info	
OS version	Microsoft Windows 10 Enterprise 10.0.15063 N/A Build 15063
CPU Info	Genuine Intel(R) CPU 0000 @ 2.00GHz
Memory Info	N/A
Hostname	DESKTOP-OPFKSG6
BMC version	4.88
CPU usage	0.29%
Memory usage	20.57%
Network Info	
Ethernet	
NIC IPv4 Address	10.1.27.169
NIC IPv6 Address	0:0:0:0:0:0:0
NIC MAC Address	00:ED:4C:36:33:27
NIC Description	Realtek USB FE Family Controller
▼ Software	
NIC Description Realtek USB FE Family Controller	
PCI Info	
PCI Express Root Port	
PCI Manufacturer	(Standard system devices)
PCI Type	System
Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D DDBIG Global Broadcast - 6FAF	
PCI Manufacturer	INTEL
PCI Type	System
PCI Express Root Port	
PCI Manufacturer	(Standard system devices)
PCI Type	System
Intel(R) Xeon(R) E7 v4/Xeon(R) E5 v4/Xeon(R) E3 v4/Xeon(R) D Home Agent 0 - 6F30	
PCI Manufacturer	INTEL
RAID Information	
N/A	
SMART Information	
Disk pd0	
Name	
Self assessment test result	
Raw read err rate	
▼	

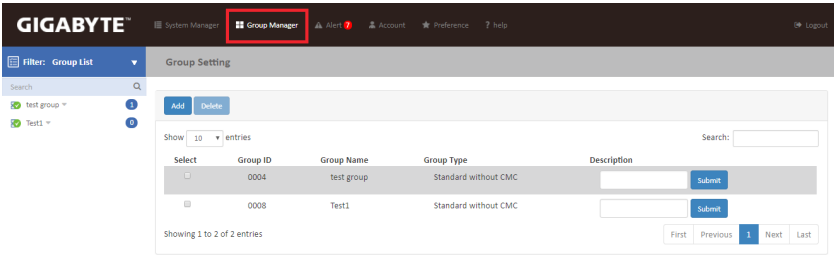


NOTE!

1. To connect the GSM Agent remotely, enter `http://<GSM Agent IP>:8080/GSM_Agent` in the browser window.

3-4 Group Manager

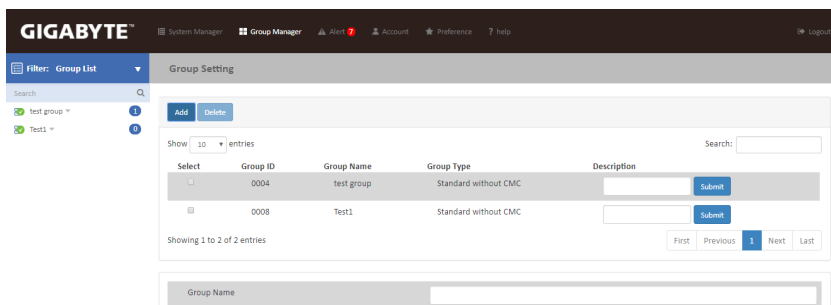
Group Manager provides the function of Create group, Edit group, Delete group, and Search function of current remote grouped client systems. Click **Group Manager**



Parameter	Description/Resulting Action
Select	Check Select box to configure connected nodes in the same group.
Group ID	Displays the connected group ID information.
Group Name	Displays the group name. Click on selected Group Name to view the Group dashboard information and Group remote management functions.
Group Type	Displays the group type information.

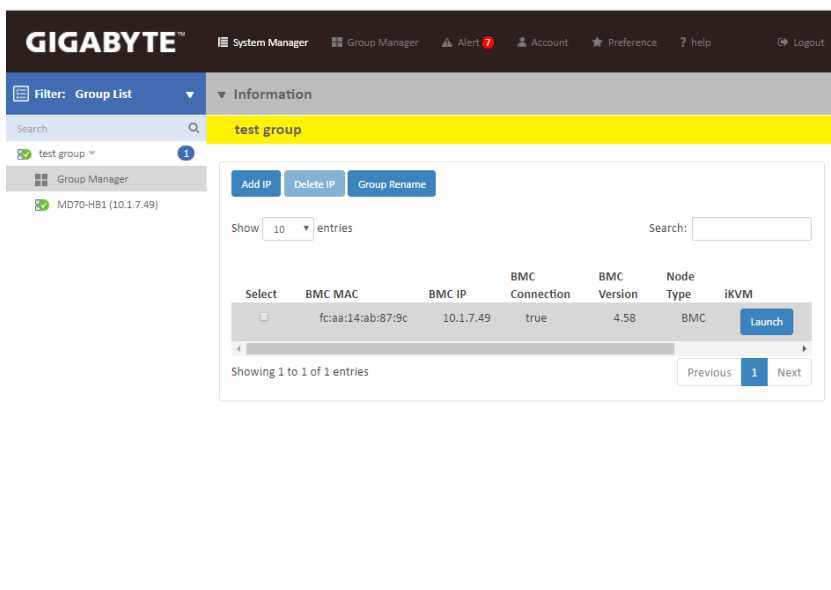
Create a Group

1. Click **Add**.
2. Define the new group name in the respective column.
3. Select Group type from the drop-down list.
4. When you have finished configuration, click **Submit**.



Group Manager

Group Manager provides Add IP, Delete IP, and rename a specified group of nodes.



3-4-1 Information

Configure IPv4 and IPv6 to DHCP mode.

To add a new BMC node to a group, follow the steps as below:

1. Click **Add IP** and select the BMC node you want to add in a group.
2. When you have finished configuration, click **Submit**.

To delete an existing BMC node, follow the steps as below:

1. Click **Delete IP** and select the BMC node you want to delete from a group.

To rename the group, follow the steps as below:

1. Click **Group Rename** and enter the new name for the group.
2. Click **Submit** to apply changes.

▼ Dashboard

s1

Add IP

Delete IP

Group Rename

Show 10 entries

Search:

Select	BMC MAC	BMC IP	BMC Connection	BMC Version	Node Type	IKVM	BIOS Info	Download Last Crash Screen
☐	1c:1b:0d:b6:aa:70	10.1.7.50	false	1.19.33124	BMC	Launch	View	Download
☐	74:d4:35:ef:2f:35	10.1.7.54	true	4.18	BMC	Launch	View	Download
☐	1c:1b:0d:0a:bc:3c	10.1.7.58	true	1.16.30106	BMC	Launch	View	Download
☐	00:c0:a8:12:34:57	10.1.7.63	true	8.57	BMC	Launch	View	Download
☐	1c:1b:0d:ba:19:48	10.1.7.64	true	8.42	BMC	Launch	View	Download
☐	00:11:22:33:44:99	10.1.7.77	true	1.0.33538	BMC	Launch	View	Download
☐	1c:1b:0d:fa:a3:e7	10.1.7.91	true	1.19.33124	BMC	Launch	View	Download
☐	1c:1b:0d:fa:a4:8d	10.1.7.92	true	1.19.33124	BMC	Launch	View	Download

Add

Show 10 entries

Search:

Select	BMC MAC	BMC IP	Node Type
☒	00:11:22:33:44:55	10.1.7.97	BMC
☐	00:c0:a8:12:34:58	10.1.27.20	BMC
☐	40:8d:5c:ba:a7:9a	10.1.27.21	BMC
☐	40:8d:5c:ba:c9:1e	10.1.27.42	BMC
☐	40:8d:5c:16:a5:08	10.1.27.62	BMC
☐	40:8d:5c:ba:a7:86	10.1.27.65	BMC
☐	40:8d:5c:ba:c0:48	10.1.27.80	BMC
☐	74:d4:35:6a:90:59	10.1.27.83	BMC
☐	1c:1b:0d:68:7b:d8	10.1.27.95	BMC
☐	40:8d:5c:b1:ee:80	10.1.27.96	BMC

Showing 1 to 10 of 12 entries

Previous

1

2

Next

Submit

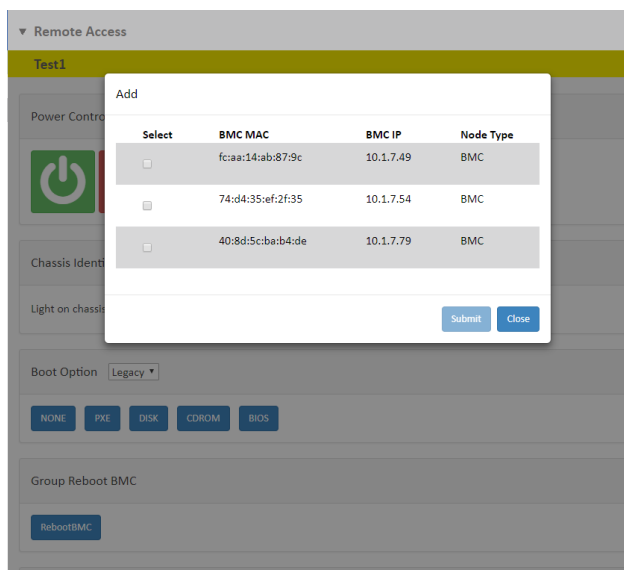
Close

3-4-2 Remote Access

Remote Access provides the following remote functions for managing grouped nodes:

- Power Control Configuration
- Chassis Identify
- Boot Option
- Launch iKVM
- Reboot BMC
- Restore BIOS default settings
- BIOS Setup information
- Mount/Unmount Virtual Media
- Network Time Protocol Configuration
- BMC Account Configuration
- BMC Agent Account Configuration
- BMC Backup/Restore Configure

Please refer section 2-2-1-3 Remote Access for advanced configuration.



NOTE!

1. Specify the node system from the group list and click **Submit** to complete the configuration.

3-4-3 Updates

Users can configure the TFTP server and update node last log, PSU/BMC/BIOS firmware, logo, and CPLD in this page. Follow the steps below to update group firmware remotely.

1. Select the BMC node you want to update firmware.
2. Then select the package type by using **Browse**.
3. Click Update to update the firmware.
4. To update image file, select the package type by using **Browse**.
5. Click Update to update the image file.

▼ Update

MD7-HB1 Group Update

Update process: (0 / 1) Completed

Please select nodes:

select	BMC IP	BMC Version	BIOS Version	Progress	Last Log
☐	192.168.1.223	4.58	R06		Watch

Select package and update

BMC ▾

[Browse](#)

[Update](#)

Select image and update

[Browse](#)

[Update](#)

The upload file should include logo_left.png and logo_background.png packaged as tar, and should smaller than 50KB.

3-4-4 Event Log

Event Log records an event when a sensor is in an abnormal state. When the log matches a pre-defined alert, the system will send out a notification automatically if it is pre-configured.

1. Click **Clear** to clear all history log information.
2. Click **Download** to download current system event log.

▼ Event Log

test group

ClearDownload

Show entries Search:

Timestamp	Level	Description
2018-03-23 02:00:04.396+08	1	Disable power limit
2018-03-23 01:59:04.713+08	1	Set power limit to 200
2018-03-23 01:59:04.429+08	1	Enable power limit
2018-03-23 01:53:04.672+08	1	Set power limit to 200
2018-03-23 01:53:04.383+08	1	Enable power limit
2018-03-23 01:47:04.636+08	1	Set power limit to 200
2018-03-23 01:47:04.37+08	1	Enable power limit
2018-03-23 01:41:04.622+08	1	Set power limit to 200
2018-03-23 01:41:04.34+08	1	Enable power limit
2018-03-23 01:35:04.656+08	1	Set power limit to 200

Showing 1 to 10 of 28 entries Previous123Next

3-4-5 Power Consumption Monitor

Power Consumption Monitor displays a Group's power usage status for each system and the average usage status of a Group. This function also allows users to configure the power policies for the system.

▼ Power Consumption

Test1

Policy

AddDelete

Show10▼ entries

Search:

Select	Power Limit in Watts	Start Time	Duration (hour)
☐	2000	0:00:00	1:00:00

Showing 1 to 1 of 1 entries

Previous1Next

Current total watts: 1295

Show10▼ entries

Search:

BMC MAC	BMC IP	Power Limit	Average Power	Power Limit in Watts
00:c0:a8:12:34:57	10.1.7.60	0	0	Disable
1c:1b:0d:b6:aa:50	10.1.7.61	86	87	Disable
74:d4:35:ca:72:de	10.1.112.15	0	0	Disable
74:d4:35:ef:2f:35	10.1.7.54	0	0	Disable
74:d4:35:ef:2f:92	10.1.112.25	134	194	Disable
e0:d5:5e:1a:41:eb	10.1.112.29	706	655	Disable
e0:d5:5e:58:79:20	10.1.112.24	0	0	Disable
e0:d5:5e:58:86:d8	10.1.112.16	0	0	Disable

Parameter	Description/Resulting Action
Policy	Click Add to add the execution time of Power limit. The start time is the initial time, and Duration (hour) is to set the duration. You can check the setting item and click Delete to cancel the setting of Power Limit.
Current total watts	Displays the power limit of each System and its average value.

3-4-6 Network Configuration

Network Configuration provides Group IPv4 and IPv6 DHCP configuration.

Network Configuration

MD7-HB1

Network configuration

IPv4 Settings:

DHCP

IPv6 Settings:

DHCP

3-4-7 Alert Management

Please refer section 4-3-6 Alert Management for advanced configuration.

NOTE! Only all system nodes in a group can be configurable.

GIGABYTE

System ManagerGroup ManagerAlertAccountPreferenceHelp

Filter: Group List

Search

Test

AAA

Group Manager

MD61-SC2-00 (10.1.27.102)

CL2200 Gen10 (10.1.27.106)

G481-HAO-00 (10.1.27.107)

777

Alert Management

AAA

Trap Setting

IPv4 Destination	Enable	IPv4 Address
1	OFF	0.0.0.0
2	OFF	0.0.0.0
3	OFF	0.0.0.0
4	OFF	0.0.0.0

IPv6 Destination	Enable	IPv6 Address
1	OFF	::
2	OFF	::
3	OFF	::
4	OFF	::

Submit

Group Platform Events Filters (PEF)

Platform Events Filters (PEF) Action Global Control List

3-5 Alert

Alert page shows you data related to the sensor's health, such as sensor reading.

 **NOTE!** The number beside the Alert header represents the number of Alert events that have occurred.

System Manager
 Group Manager

Alert 7

 Account
 Preference
 Help
 Logout

Filter: Health

Search

Node Status

Show 10 entries

Search:

Status	BMC IP	BMC MAC
Non-Critical	10.1.27.136	fc:aa:14:1e:f3:81
Delete Clear All		
Fri Mar 23 22:21:44 CST 2018	Fan sensor - LowerNonCriticalGoingLow Assertion	
Fri Mar 23 22:42:43 CST 2018	Fan sensor - LowerNonCriticalGoingLow Assertion	
Fri Mar 23 22:47:16 CST 2018	Fan sensor - LowerNonCriticalGoingLow Assertion	
Fri Mar 23 23:44:00 CST 2018	Fan sensor - LowerNonCriticalGoingLow Assertion	
Fri Mar 23 23:59:45 CST 2018	Fan sensor - LowerNonCriticalGoingLow Assertion	
Unknown	10.1.112.114	e0:d5:5e:12:19:f5
Delete Clear All		
Tue Mar 06 18:16:48 CST 2018	SystemEvent sensor - GIGABYTETestTrap Assertion	
Tue Mar 06 18:17:36 CST 2018	SystemEvent sensor - GIGABYTETestTrap Assertion	

First

Previous

1

Next

Last

3-6 Account

This page provides the function to create a specific user account. Follow the steps below to create a new account.

1. Click **Add** and define the **User Name** and **Password**.
2. Define **Enable** function.
3. Select Privileges **Level**.
4. When you finish the configuration, click **Submit**.

User Privileges

AddDelete

Show 10 entries

Search:

Select	Enable	User Name	Level	Type	Edit
☐	true	admin	ROLE_ADMIN	LOCAL	Edit
☐	true	gigabyte(pj.sun	ROLE_USER	LDAP	Edit

Showing 1 to 2 of 2 entries

Previous1Next

Add Member

User Name

Password

Enable

Level

☒ true ☐ false

ROLE_ADMIN

ROLE_ADMIN

ROLE_OSADM

ROLE_OPERATOR

ROLE_USER

Submit

Close

Privilege Level	
ROLE_ADMIN	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.
ROLE_OSADM	Only allow to execute remote console and virtual media commands for OS level by default
ROLE_OPERATORS	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.
ROLE_USER	This may be considered the lowest privilege level.

LDAP

LDAP configuration page.

When you finish the configuration, click **Submit**.

LDAP

LDAP Host

Port

Submit



NOTE!

When configuring the LDAP Server, you need to set the LDAP Host and Port in advance.

- LDAP Host: LDAP Serve IP address.
- LDAP Port: 389.

3-7 Preference

Preference displays the database usage and IP range configuration for remote node or group system.

IP Range

Event Log

Alert Management

Database

Properties

Update

Languages

	Start IP	End IP	Scan Type	Policy Name
☐	10.1.27.91	10.1.27.91	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.27.159	10.1.27.163	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.7.100	10.1.7.100	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.27.1	10.1.27.100	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.7.226	10.1.7.226	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.27.109	10.1.27.109	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.7.97	10.1.7.97	☒ BMC ☒ RMC ☒ CMC	New
☐	10.1.27.153	10.1.27.153	☒ BMC ☒ RMC ☒ CMC	New

3-7-1 IP Range

User can specify the IP range that is scanned during a normal discovery run. Follow the steps outlined below to configure IP discover.

1. Select Connection Interface to search BMC Server.
2. Click **Create row** to specify the IP range in the respective columns.
3. Enter Start IP and End IP in the respective columns.
4. Select **Scan Type** and define the **Policy Name**.
5. When you finish the configuration, click **Submit** to save your configuration.

▼ IP Range

Change Connection Interface

Auto

Submit

IP Range Setting

Submit

Create row

Delete	Start IP	End IP	Scan Type	Policy Name
☐	10.1.7.1	10.1.7.255	☒ BMC ☒ RMC ☒ CMC	New policy
☐	10.1.112.1	10.1.112.254	☒ BMC ☒ RMC ☒ CMC	New policy
☐	10.1.27.1	10.1.27.254	☒ BMC ☒ RMC ☒ CMC	New policy

Scan Type	Description
BMC	Baseboard management controller, which gives a user or administrator the ability to control a remote system and the ability to perform a variety of functions. With BMC, data is only transmitted within the local area network.
CMC	Chassis Management Controller, which provides functionality for managing multiple server nodes within a single chassis, or multiple chassis. CMC is a higher level of control and monitoring of one or multiple chassis.
RMC	Remote Management Controller. Similar with BMC, CMC provides LAN-based system console access as well as remote system management functions. RMC provides out-of-the-band functions and giving you complete access to your server from any location via a web browser.

3-7-2 Event Log

Event Log displays event log information for all nodes/systems within the defined IP range.

▼ Event Log

ClearDownload

Show10▼ entriesSearch:

Timestamp	Level	Description
2018-03-26 14:55:10.33	1	Found new IPMI IP(with 10.1.112.122/1C:18:0D:86:5A:4D/BMC)
2018-03-26 14:55:10.146	1	Found new IPMI IP(with 10.1.112.121/1C:18:0D:86:5A:F9/BMC)
2018-03-26 14:55:09.932	1	Found new IPMI IP(with 10.1.112.120/1C:18:0D:86:5A:AD/BMC)
2018-03-26 14:55:08.866	1	Found new IPMI IP(with 10.1.112.114/E0:D5:5E:12:19:F5/BMC)
2018-03-26 14:55:08.813	1	Found new IPMI IP(with 10.1.112.119/1C:18:0D:86:5A:1D/BMC)
2018-03-26 14:55:08.803	1	Found new IPMI IP(with 10.1.112.117/1C:18:0D:E5:FC:0C/BMC)
2018-03-26 14:55:05.54	1	Found new IPMI IP(with 10.1.112.108/1C:18:0D:21:2D:14/CMC)
2018-03-26 14:54:34.45	1	Found new IPMI IP(with 10.1.112.87/E0:D5:5E:60:FC:D6/BMC)
2018-03-26 14:54:34.329	1	Found new IPMI IP(with 10.1.112.86/E0:D5:5E:63:30:A2/BMC)
2018-03-26 14:54:32.562	1	Found new IPMI IP(with 10.1.112.74/E0:D5:5E:65:AD:5A/BMC)

Showing 1 to 10 of 100 entries

Previous12345...10Next

User Action's Log Event Log

Displays the action event log of users.

▼ Event Log

User Action's Log

Show10▼ entriesSearch:

No.	Timestamp	User Name	Client IP	Action	Description	Result
1192	2018-03-26 14:57:42.136	admin	10.1.7.27	LOGIN	Log in	SUCCESS
1191	2018-03-26 14:38:06.36	admin	10.1.7.37	LOGIN	Log in	SUCCESS
1190	2018-03-26 13:25:38.826	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1189	2018-03-26 13:23:05.631	admin	10.1.27.222	LOGIN	Log in	FAILURE
1188	2018-03-26 13:20:50.131	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1187	2018-03-26 13:16:03.971	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1186	2018-03-26 13:13:32.416	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1185	2018-03-26 13:11:07.744	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1184	2018-03-26 13:08:41.09	admin	10.1.27.222	LOGIN	Log in	SUCCESS
1183	2018-03-26 13:03:50.314	admin	10.1.27.222	LOGIN	Log in	SUCCESS

Showing 1 to 10 of 508 entries

Previous12345...51Next

Download

3-7-3 Alert Management

Alert Management enables the following configuration: **GSM SNMP Setting** and **IPv4 Destination** configuration, **SMTP Server** configuration, and **Send Mail** configuration for all nodes/systems within the defined IP range.

GSM SNMP

GSM SNMP trap configuration includes SNMP setting and SNMP destination configuration.

Alert Management

GSM SNMP

Setting

Alerting Enable

OFF

Host Address

10.2.0.30

Alerting Level

DEBUG

* Note: (The ordering of log levels is DEBUG < INFO < WARN < ERROR < FATAL).

Destination

IPv4 Destination	Enable	IPv4 Address
1	OFF	0.0.0.0
2	OFF	0.0.0.0
3	OFF	0.0.0.0
4	OFF	0.0.0.0

Submit

Parameter	Description/Resulting Action
Alerting Enable	Determine whether the trap is sent by connected node.
Host address	Displays the host address information.
Alerting Level	Determine the alerting level from the drop-down list. Please refer to Section 3-1 Event Log for description of alerting level.

Destination

GSM SNMP Destination configuration for all nodes/systems within the defined IP range.

Setting SNMP Server

Server Host	Server Port	Account	Password	Email Address

Enable	Email Address	Event Level	Delete
☐ OFF		DEBUG ▾	☐ OFF
☐ OFF		DEBUG ▾	☐ OFF
☐ OFF		DEBUG ▾	☐ OFF

* Note: (The ordering of log levels is DEBUG < INFO < WARN < ERROR < FATAL).

Save

Cancel

Send Test Mail

Parameter	Description/Resulting Action
Destination	
IPv4 Destination	User can configure 4 IPv4 Destination.
Enable	Select ON to configure IPv4 address
IPv4 Address	Enter specified IP address. When you finish the configuration, click Submit to save your configuration.

3-7-4 Database

Database shows DB location information, provides a backup function, and enables firmware update for all nodes/systems within the defined IP range.

▼ Database

Database usage

DB location: C:\Program Files\PostgreSQL\9.4



Total Size: 28.57 GB

Other Usage: 14.33 GB

Database Usage: 0.01 GB

Free Space: 14.23 GB

Backup

Backup current database and download it.

Backup Download

Update

Update database, please provide database backup file. (File format: .backup)

選擇檔案 未選擇任何檔案

Update

3-7-5 Properties

Properties enables GSM TFTP server configuration for all nodes/systems within the defined IP range. Follow steps outlined below to configure TFTP server.

1. Define **Database** usage.
2. Define checking time. In each routine check, GSM will check log date
3. When you finish the configuration, click **Submit**.

▼ Properties

Database

In each routine check, GSM will check database usage and data date

GSM will stop store data into database according with the setting

0%

10%

90%

100%

90

%

Keep database data in

365

 day(s)

Log

In each routine check, GSM will check log date

Keep log file in

7

 day(s)

Submit

▼ Properties

Keep database data in

1

 day(s)

Log

In each routine check, GSM will check log date

Keep log file in

1

 day(s)

BMC Node Update Setting

GSM will follow setting to update BMC node during fixed period.

Node quantity

50

300

261

nodes

Node update period

3

10

3

minutes

Submit

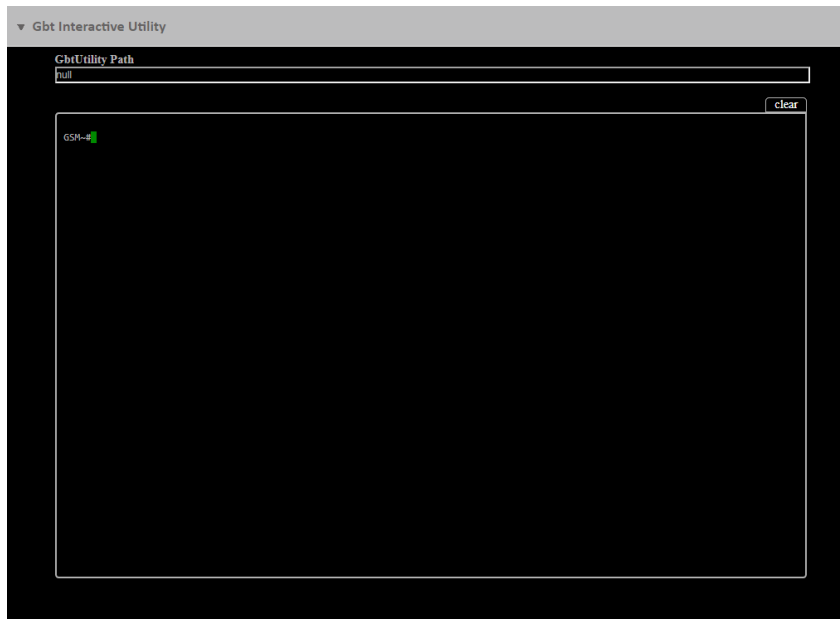
BMC Node Update Setting

Configuration of interval and number of nodes.

Parameter	Description
Node quantity	Search number of nodes.

3-7-6 GSM CLI (Command Line Interface)-GIGABYTE Interactive Utility

User can use Gbt Interactive Utility to set the path of GbtUtility.jar. Then, execute related command.



3-7-7 Update

User can update GSM firmware and reset the system to default settings for all nodes/ systems within the defined IP range from this page.

To update, select the file on your local system using Browse.

1. Click **Update** to update to the new version of firmware.
2. To update Keystore, click **Choose File** and enter keystore password, then click **Update**.
3. To reset system to the factory default, click **Reset**.

▼ Update

Update

Current Version: GIGABYTE GSM Server v1.08

Choose File No file chosen Update

Update keystore

Keystore file:

Choose File No file chosen

Keystore password:

Update

SystemReset

Reset to default

SystemReset Reset

3-7-8 Language

User can select the preference language in this page.

▼ Languages

🔊 Language

Language ▼

3-8 Help

Help page provides general information including License information, Hardware requirements, Software requirements and Operating System requirements.

User Menu Description

Current Version: GIGABYTE GSM Server v1.03

Menu

System Manager

Lead you to node list page description.

Group Manager

Lead you to group list page description.

Alert

Lead you how to read alert information.

Account

Lead you how to set personal values.

Preference

Lead you to node status page description.

[Hardware requirements]

- System Processor: 2 GHZ and above
- System Memory: Minimum 4 GB RAM
- Free Disk Space: 1000 GB at least
- Node Servers : 255 maximum

[Software requirements]

Browser:

- Internet Explorer 9 or later
- Google Chrome 39.0.2171.65 m or later
- Mozilla Firefox 33.1.1

Operating System:

- Windows 2008 & 2012 R2
- Redhat/CentOS 6.3 or later

License Detailed List

Apache Tomcat	Apache License 2.0
Ini4j	Apache License 2.0
Log4j	Apache License 2.0
Spring	Apache License 2.0
TFTP	Apache License 2.0
VXIPMI	GPL License
JFreeChart	LGPL license
Bootstrap	MIT License
Flot	MIT License
JQuery	MIT License
PostgreSQL	PostgreSQL License

3-9 Logout

Click  Logout to logout of the system.

GIGABYTE™

System Manager

Group Manager

Alert

Account

Preference

?

help

Logout

Filter: All

Search

MultiNode 4

MultiNode 5

MultiNode 3

test group

Rack 7

Rack 8

MultiNode 6

GS-R22PX (10.1.27.20)

Unknown (10.1.7.65)

GS-MH11-OCO-Y9 (10.1.7.77)

G481-S80-00 (10.1.7.79)

G250-G52-XX (10.1.7.82)

Unknown (10.1.7.83)

MD61-SC2-00 (10.1.7.84)

MD70-H80 (10.1.7.90)

MX11-PC0 (10.1.7.110)

CL2100 Gen10 (10.1.7.111)

G291-280-00 (10.1.7.112)

GS-MH11-OCI-Y9 (10.1.7.134)

MH11-OCO-Y9 (10.1.7.140)

CL2100 Gen10 (10.1.7.148)

Unknown (10.1.7.151)

MH11-OCO-Y9 (10.1.27.32)

Information

10.1.7.77

Description

Submit

FRU

Chassis Type	RackMountChassis
Chassis Part Number	01234567
Chassis Serial	01234567890123456789AB
Board Mfg Date	Fri Jan 13 03:37:00 CST 2017
Board Mfg	GIGABYTE
Board Product	MH11-OCO-Y9
Board Serial	01234567890123456789AB
Board Part Number	123456789AB
Product Manufacturer	GIGABYTE
Product Name	GS-MH11-OCO-Y9
Product Part Number	000000000001
Product Version	0100
Product Serial	01234567890123456789AB
Product Asset Tag	01234567890123456789AB

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GSM Server

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Chapter 5 Appendix

5-1 Event Log List

SNMP ID	Event Level	Event Function	Event Description
D06F00	FATAL	DB	Database connection failed.
D06F01	ERROR	DB	Database connection denied.
D16F00	ERROR	Network Configuration	Get IPv4 configuration failed
D16F01	ERROR	Network Configuration	Set IPv4 configuration failed
D16F02	ERROR	Network Configuration	Get IPv6 configuration failed
D16F03	ERROR	Network Configuration	Set IPv6 configuration failed
D26F00	ERROR	Chassis Control	Power control failed
D26F01	ERROR	Chassis Control	Set chassis identify failed
D26F02	ERROR	Chassis Control	Get chassis status failed
D36F00	ERROR	Power Limit	Get power limit failed
D36F01	ERROR	Power Limit	Power limit configuration failed
D36F02	ERROR	Power Limit	Power limit configuration failed
D46F00	ERROR	Platform Event	Platform event log failed
D46F01	ERROR	Platform Event	Set platform event failed
D56F00	ERROR	Trap Destination	Get IPv4 destination failed
D56F01	ERROR	Trap Destination	Set IPv4 destination failed
D56F02	ERROR	Trap Destination	Get IPv4 activate status failed
D56F03	ERROR	Trap Destination	Set IPv4 activate status failed
D56F04	ERROR	Trap Destination	Get IPv6 destination failed
D56F05	ERROR	Trap Destination	Set IPv6 destination failed
D56F06	ERROR	Trap Destination	Get IPv6 activate status failed
D56F07	ERROR	Trap Destination	Set IPv6 activate status failed
D36F03	WARN	Group Power Limit	Policy already exist
D36F04	INFO	Group Power Limit	Add new policy
D36F05	INFO	Group Power Limit	Delete policy
D36F06	INFO	Group Power Limit	Group XXX: enable power limit
D36F07	INFO	Group Power Limit	Group XXX: reduce power limit to XXX
D36F08	INFO	Group Power Limit	Group XXX: disable power limit
D66F00	WARN	User Management	User account: XXX already exist
D66F01	INFO	User Management	Add new user account: XXX
D66F02	INFO	User Management	Delete user account: XXX
D76F00	INFO	System Reset	System reset success
D76F01	ERROR	System Reset	System reset failed, please wait a few minutes
D86F00	INFO	Group Setting	Create group
D86F01	INFO	Group Setting	Delete group
D86F02	INFO	Group Setting	Add group member
D86F03	INFO	Group Setting	Delete group member
D86F04	INFO	Group Setting	Rename group

D96F00	INFO	Background(GSM) : IP Discover	Found new OpenRack1.0 RMC IP(with ip)
D96F01	INFO	Background(GSM) : IP Discover	Found new IPMI IP(with ip/mac/type)
D96F02	INFO	Background(GSM) : Node Status	Add node(with mac information)
D96F03	INFO	Background(GSM) : Node Status	Start monitor after a random time has expired
D96F04	INFO	Background(GSM) : Node Status	Delete node(with mac information)
D96F05	INFO	Background(GSM) : Monitor high frequency	Add node(with mac information)
D96F06	INFO	Background(GSM) : Monitor high frequency	Start monitor after a random time has expired
D96F07	INFO	Background(GSM) : Monitor high frequency	Delete node(with mac information)
D96F08	INFO	Background(GSM) : System info high frequency	Add node(with mac information)
D96F09	INFO	Background(GSM) : System info high frequency	Start monitor after a random time has expired
D96F0A	INFO	Background(GSM) : System info high frequency	Delete node(with mac information)
D96F0B	INFO	Background(GSM) : System info low frequency	Add node(with mac information)
D96F0C	INFO	Background(GSM) : System info low frequency	Start monitor after a random time has expired
D96F0D	INFO	Background(GSM) : System info low frequency	Delete node(with mac information)
D96F0E	INFO	Background(GSM) : Power reading	Add node(with mac information)
D96F0F	INFO	Background(GSM) : Power reading	Start monitor after a random time has expired
D96F10	INFO	Background(GSM) : Power reading	Delete node(with mac information)
DA6F00	WARN	Background(Each node) : Node Status	Node disconnect, terminate all service process
DA6F01	WARN	Background(Each node) : Node Status	IPMI damage retry count
DA6F02	ERROR	Background(Each node) : Node Status	IPMI damage, terminate all service process except node status itself

DA6F03	INFO	Background(Each node) : Node Status	Node has been terminated
DA6F04	ERROR	Background(Each node) : Monitor high frequency	Send command exception(Could be raw command fail or sql command fail)
DA6F05	INFO	Background(Each node) : Monitor high frequency	Node has been terminated
DA6F06	ERROR	Background(Each node) : System info high frequency	Exception information(get free port fail)
DA6F07	WARN	Background(Each node) : System info high frequency	Node management status is true/false
DA6F08	INFO	Background(Each node) : System info high frequency	Node has been terminated
DA6F09	ERROR	Background(Each node) : System info low frequency	Get FRU fail
DA6F0A	ERROR	Background(Each node) : System info low frequency	Get SDR fail
DA6F0B	ERROR	Background(Each node) : System info low frequency	Get 3 Net MAC fail
DA6F0C	ERROR	Background(Each node) : System info low frequency	Get SMBIOS info fail
DA6F0D	INFO	Background(Each node) : System info low frequency	Node has been terminated
DA6F09	ERROR	Background(Each node) : System info low frequency	Get FRU fail
DA6F0A	ERROR	Background(Each node) : System info low frequency	Get SDR fail
DA6F0B	ERROR	Background(Each node) : System info low frequency	Get 3 Net MAC fail
DA6F0C	ERROR	Background(Each node) : System info low frequency	Get SMBIOS info fail

DA6F0D	INFO	Background(Each node) : System info low frequency	Node has been terminated
DC6F03	ERROR	Node BMC Update	No compatible image, end process
DC6F04	ERROR	Node BMC Update	Cannot connect to TFTP server, end process
DC6F05	ERROR	Node BMC Update	Update BMC fail:[message]
DD6F00	INFO	Node BIOS Update	Start update BIOS
DD6F01	INFO	Node BIOS Update	Update BIOS success
DD6F02	WARN	Node BIOS Update	Node is busy, end process
DD6F03	ERROR	Node BIOS Update	No compatible image, end process
DD6F04	ERROR	Node BIOS Update	Cannot connect to TFTP server, end process
DD6F05	ERROR	Node BIOS Update	Update BIOS fail:[message]
DE6F00	INFO	Get Node SEL	Getting node SEL
DE6F01	INFO	Get Node SEL	Get node SEL complete
DE6F02	WARN	Get Node SEL	Cannot find SEL record
DE6F03	INFO	Clear Node SEL	Clearing node SEL
DE6F04	INFO	Clear Node SEL	Clear node SEL complete
DE6F05	INFO	Dump Node SEL	Starting to dump node SEL file
DE6F06	INFO	Dump Node SEL	Dump node SEL complete