

# **GSM Server**

Installation and Configuration Guide

Rev. 1.2

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

- User Manual: detailed information & steps about the installation, configuration and use of this product (e.g. motherboard, server barebones), covering hardware and BIOS.
- User Guide: detailed information about the installation & use of an add-on hardware or software component (e.g. BMC firmware, rail-kit) compatible with this product.
- Quick Installation Guide: a short guide with visual diagrams that you can reference easily for installation purposes of this product (e.g. motherboard, server barebones).

Please see the support section of the online product page to check the current availability of these documents.

## For More Information

For related product specifications, the latest firmware and software, and other information please visit our website at http://www.gigabyte.com

For GIGABYTE distributors and resellers, additional sales & marketing materials are available from our reseller portal: http://reseller.b2b.gigabyte.com

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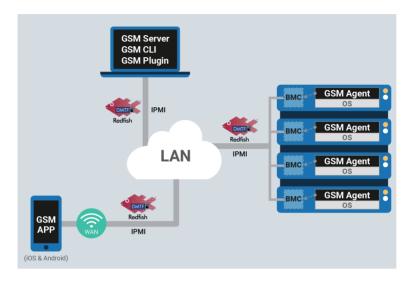
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## Chapter 1 GSM Server Overview

## 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.

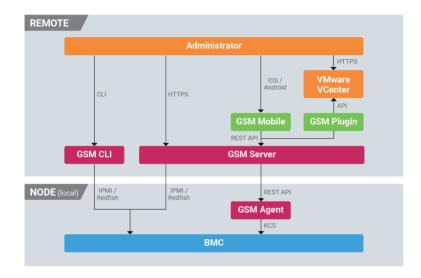
**GSM CLI (GBT Utility)**, a command-line interface program to enable global remote monitoring and management of multiple GIGABYTE servers via each server node's BMC.

**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:

- Google Chrome 39.0.2171.65 m or later
- Mozilla Firefox 33.1.1

#### Operating System:

- Windows 2008 / 2012 R2 / 2019
- Ubuntu 16.04 or later
- Redhat/CentOS 6.3 or later

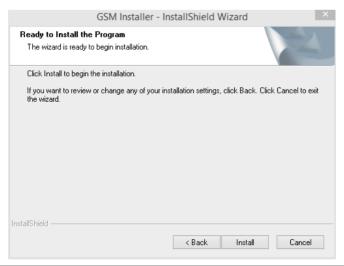
## 2-4 Installing GSM Server (Windows)

## 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.

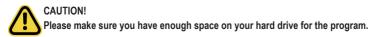
GSM	Installer - InstallShield Wizard
	Welcome to the InstallShield Wizard for GSM Installer The InstallShield Wizard will install GSM Installer on your computer. To continue, click Next.
	< Back Next > Cancel

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



5. Installation completed, click **Finish**.





## 2-4-2 Getting Started

 Open a browser and type in your identified IP. The IP address can be found using your DHCP server. Local URL: https://localhost:8443/GSM

Remote URL: https://[Server IP]:8443/GSM

GIGABYTE <sup>-</sup>	Login to GSM Prese reput sorrares and personnel.	
	Password	
	Login	

#### NOTE!

If you can't connect to the GSM Server, perhaps the firewall blocks the connection , please check the rule settings:

2. 2. If the GSM UI works appropriately after installing the latest version of GSM server, please clear the browser cache data and try again.

Windows Firewall with Advanc	ed Security			- I		٢.
ile Action View Help 🗕 🔿 🔂 🔂 🖬						
Windows Firewall with Advance	Inbound Rules		Act	ions		-
Inbound Rules     Outbound Rules	Name	Group ^	Inb	ound Rules		
Connection Security Rules	GSM_Server_TCP		63	New Rule		1
Nonitoring	GSM_Server_UDP		7	Filter by Profile	•	1
	AllJoyn Router (TCP-In)	AllJoyn Rout	マ	Filter by State	•	
	BranchCache Content Retrieval (HTTP-In)	AllJoyn Rout BranchCach	7	Filter by Group	•	
	BranchCache Hosted Cache Server (HTT	BranchCach	-	View	•	1
	BranchCache Peer Discovery (WSD-In)	BranchCach	a	Refresh		1
>	Cast to Device functionality (qWave-TCP	Cast to Devi		Export List		

## 2-5 Installing GSM Server (Linux)

## 2-5-1 Install/Un-install 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. 2.2 Use deb package to install GSM.

#dpkg -i gsm\_x. x\_all.deb

3. Make sure that the package 'fontconfig' has already been installed before starting GSM. Install the package: 'fontconfig'.

#apt-get install fontconfig

4. Finish and start up GSM web page.

Connect to GSM: https://{your IP address}:8443/GSM

5. Uninstall GSM

#dpkg –r gsm



- Installation will install and place Java sources for GSM to /opt. Do not modify and remove them. It's very important.
- 2. After finishing installation, installer would add 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 Install/Un-install Steps for CentOS 7, RHEL, Fedora (Login as root)

1. Before installation, please check that packages sudo and firewalld have already been installed, or GSM installation will be failed.

#yum install sudo firewalld

2. Use RPM package to install GSM.

# rpm -ivh gsm-x.x-1.x86\_64.rpm

3. Make sure that the package 'fontconfig' has already been installed before starting GSM.

Install the package: 'fontconfig'. #yum install fontconfig

4. Finish and start up GSM web page

Connect to GSM: https://{your IP address}:8443/GSM

5. Uninstall GSM Server

#rpm -e gsm-x.x-1.x86\_64



- Installation will install and place Java sources for GSM to /opt. Do not modify and remove them. It's very important.
- 2. After finishing installation, installer would add 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.

# Chapter 3 Using GSM Server

## 3-1 Overview

GIGABYTE		
	Login to GSM Please input username and password.	Ì
	User	
	Password	
	Login	

- 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 factory default values:
  - Username: admin
  - Password: password



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

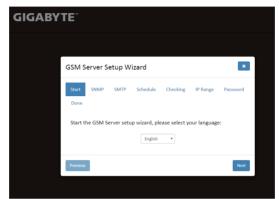
When you log in using the root user name and password, you have full administrative powers. It is advised that once you log in, you change the root password.

#### 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.



2. Configure the SNMP setting and click Next.

GSM Server Setup Wizard							
Start SNMP	SMTP	Schedule	Checking	IP Range	Password		
Set up SMTP co	afiguration	to receive t	he GSM aler	te			
Set up Sivir P co	ingulation	i to receive t	ine doivi alei	LS			
Setting							
Server Host							
Server Port			0				
Account							
Password							
Email Addre	55						
Authenticati	on						
TLS							
Email Address	Destinatio	on					
Enable	Email A	Address		Event Leve			
				Unknown	~		
0				Unknown	~		
				Unknown	~		
* Note: The ordering	of event aler	rt levels is Critic	al > Non-Critical	> Unknown			
Previous					Next		

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

G	iSM Server Se	etup Wi	izard			×
	Start SNMP	SMTP	Schedule	Checking	IP Range	Password
	Done					
	Set up SMTP con	figuration	to receive t	he GSM alert	s	
	Setting					
	Server Host					
	Server Port			0		
	Account					
	Password					
	Email Addres	s				
	Authenticatio	on				
	TLS					
	Email Address	Destinatio	<u>on</u>			
	Enable	Email A	Address		Event Level	
					Unknown	~
					Unknown	~
					Unknown	~
	* Note: The ordering	of event aler	t levels is Critica	al > Non-Critical :	> Unknown	
ſ	Previous					Next

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

GIGABYTE
GSM Server Setup Wizard
Start SMMP SMTP Schedule Checking IP Range Password Done
Set the background schedule of GSM Server
Check
GSM will clean data to make sure system has enough space to store data Check system in each 12 + hour(s)
BMC Node Update Setting
GSM will follow setting to update BMC node during fixed period.
Node quantity 250
50 300 230 nodes
Node update period  3 10 5 minutes
Previous

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

GIGABYT	E	
G	SM Server Setup Wizard	
	Start SNMP SMTP Schedule Checking IP Range Password Done	
:	Set the check process configuration	
	Database	
	In each routine check, GSM will check database usage and data date If disk usage over the settings, GSM will delete data from database	
	0% <b>10%</b> 90% 90%	
	Keep database data in 265 • day(s)	
	Log	
	In each routine check, GSM will check log date Keep log file in 7 * day(s)	
	Next	

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

GSM Server Setup Wizard	×
Start SNMP SMTP Schedule Checking IP Range Done	Password
Set the IP range to discover the remote device	
Start IP: 10.1.7.1 End IP: 10.1.7.255	
BMC CMC     Policy Name: New policy     ESX	
Username: admin Password: password	
Start IP: End IP:	
BMC CMC     Policy Name: New policy     ESX	
Username: admin Password: password	
Start IP: End IP:	
BMC CMC     Policy Name: New policy     ESX	
Username: admin Password: password	
Previous	Next

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

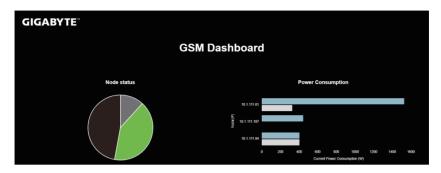
GIGABYTE <sup>®</sup>							
	GSM S	erver S	etup W	izard			×
	Start Done	SNMP	SMTP	Schedule	Checking	IP Range	Password
				Don	e!		
	Previous						Done

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

GIGABYTE							
	GSM S	erver S	etup W	izard			×
	Start Done	SNMP	SMTP	Schedule	Checking	IP Range	Password
				Don	e !		
	Previous						Done

## 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:

GIGABY	TE"	🖩 System Manager	👪 Group Manager	III Deployment	🛦 Alert	🌲 Account	+ Preference	? help	60 Logout
Filter: Health		▼ Information							
Search	0, ≣	10.1.111.101							î
80	. 1	Description	Node Description						Submit
80	н	FRU							Refresh
2	1	Chassis Type					RackMoun	tChassis	
80	÷ 1	Chassis Part Numb	per				01234567		
80	- 1	Chassis Serial					01234567	890123456789AB	
	- I	Board Mfg Date					2000-01-0	7 00:00:00.000	
80	- 1	Board Mfg					GIGABYTE		
8		Board Product					CNBH0L-0	)	
8		Board Serial					JH6R59002	203	
80		Board Part Numbe	er.				12345678	9AB	
2		Product Manufact	urer				GIGABYTE		
80		Product Name					CNBH0L-0	0	
8		Product Part Num	ber				00000000	0001	
10		Product Version					0100		*

lcon	Decription/Resulting Action
	Normal: All nodes and sensors are normal and there's no sensor that has any alert.
<b>F</b>	Warning: There's at least one node/ sensor that has warning alert.
<b>;</b>	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.

GIGABYTE	🗐 System Manager	👪 Group Manager	Deployment	🛦 Alert 🏦 Accour	it 🚖 Preference	? help	6+ Logout
Filter; All	▼ Information						
Search Standard System	10.1.111.181						, i i i i i i i i i i i i i i i i i i i
test     MultiNode System     Storage     Multi     Virtual Machine	Description	Node Description					Submit
Goroup List							Refresh
C IB Critical	FRU						Refresh
Multion Mon-Childan	Chassis Type				RackMou	ntChassis	
MultioNon-Connected	Chassis Part Num	ber			01234567		
MultiNode 22 * U	Chassis Serial				01234567	890123456789AB	
MultiNode 23 - 🕥	Board Mfg Date				2000-01-	07 00:00:00.000	
M Unknown (10.1.111.95)	Board Mfg				GIGABYT		
T182-270-28 (10.1.111.194)	Board Product				MZ62-HD	0-00	
<ul> <li>H262-262-00 (10.1.111.181)</li> <li>H242-210-00 (10.1.111.28)</li> </ul>	Board Serial				\$1923900	104	
G481-HA0-00 (10.1.111.97)	Board Part Numb	er			12345678	9AB	
R282-Z92-00 (10.1.111.66)	Product Manufac	turer			GIGABYT		
😵 R181-291-00 (10.1.111.74)	Product Name				H262-Z62	-00	
10.1.111.157 H262-263-00 (10.1.111.157)	Product Part Num	her			0000000	0001	
😰 R282-293-Q5 (10.1.111.58)							

Parameter	Description/Resulting Action
Standard System	Server Node connected via BMC function.
MultiNode System	System Node connected via CMC function.
Storage	Lists JBOD system nodes information.
Virtual Machine	Lists the connected virtual machine 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.

GIGABYTE	📕 System Manager 🛛 🏭 Group Manager	ा 🇱 Deployment 🛕 Alert 🔹 Account ╈ Preference ? help 😔 Lagout
E Filter: All	Information     Information     Monitoring     Remote Access     Network Configuration     Event Log     Alert Management     Update     SOL Terminal	La constanti de la constanti de La constanti de la constanti de La constanti de la constanti de
	Remote BIOS Setup	RadMountChassis 01234567
8	Chassis Serial Board Mfg Date	0123456789012345678908 2000-01-07 00:00:00
10 10	Board Mfg Board Product Board Serial	GIGAPTE CHBHQ.40 HeES00203
80 80 84	Board Part Number Product Manufacturer	a Innucleosada 123456790-8 GIGARPITE
8	Product Name Product Part Number	CN8H0L-00 00000000001
	Product Version	0100 *

## 3-3-1 Information

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

Information			
Description	Node Description		Submit
			Refresh
FRU			Part Gart
Chassis Type		RackMountChassis	
Chassis Part Number		01234567	
Chassis Serial		01234567890123456789A8	
Board Mfg Date		2000-01-07 00:00:000	
Board Mfg		GIGABYTE	
Board Product		MZ92-FS0-00	
Board Serial		JG7P9500047	
Board Part Number		123456789AB	
Product Manufacturer		GIGABYTE	
Product Name		R182-292-00	
Product Part Number		00000000001	
Product Version		0100	
Product Serial		GJG8P8912A0008	
Product Asset Tag		01234567890123456789AB	

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.

Lad SDR		
Status	Sensor type	
ОК	Fan	View
NG	Temperature	View
ОК	Voltage	View
ОК	Current	View

## **Sensor Monitoring**

Click on monitor specified sensor and time frame.

## 3-3-3 Remote Access

Remote Access provides the following remote functions:

- Power Control Configuration
- Chassis Identify
- Boot Option
- iKVM
- BMC Account Configuration
- GSM Agent Account Configuration

## Power Control

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

Power Cantrol	
lcon	Description/Resulting Action
ک	Power on system.
	Power off system.
C	Power cycle system.
3	Hard reset system.

## **Chassis Identify**

Chassis Identify
Light on chassis identify in 0 v second(s) submit
Boot Option Legacy 🗸
PXE DIGK COROM BIOS

## **Boot Option**

3oot Option [Legacy♥]	
PXE DISK CORIONI BICS	

## iKVM

ikvm	
Download	
BMC Account Configuration	
This setting using on GSM is for a	ccessing BMC, the original bmc account and password will not be changed.
User Name	admin
Password	
Password	
Submit	

## **BMC Account Configuration**

BMC Account Configuration		
This setting using on GSM is for a	ccessing BMC, the original bmc account and password	will not be changed.
User Name	admin	
Password	••••••	10
Submit		

## **GSM Account Configuration**

GSM Agent Account Configuration							
This setting helps GSM access ren	note GSM Agent, the original GSM Agent account and pa	assword will not be changed.					
User Name	admin						
Password	••••••	Ø					
Submit							

Parameter	Description/Resulting Action
Chassis Identify	Define the chassis lighting time. When you finish the configuration, click <b>Submit</b> .
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.
BMC Account Configuration	Configure the administrator ID and password in this section. After finishing configuration, click <b>Submit</b> .
GSM Account Configuration	Set the User Name and password to connect to the GSM Agent account. Click <b>Submit</b> when setting is complete.

## 3-3-4 Network Configuration

This page provides Group IPv4 and IPv6 DHCP configuration.

IPv4 Settings	
Enabled	Enable
Use DHCP	ON
IP Address	10.1.111.24
Subnet Mask	255.255.255.0
Gateway	10.1.111.253
Submit	
IPv6 Settings	
Enabled	Enable
Use DHCP	
USE DHCP	ON
USE DHCP IP Address	
IP Address	

Parameter	Description/Resulting Action
IPv4 setting IPv6 Setting	
Enabled	Displays IPv4/IPv6 enabled status.
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, clkick  $\ensuremath{\textbf{Submit}}$  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.

e SEL	Clear	Download			Severity: Show All 👻 Event Dir: Show All 🔍 Sensor Type: Show All
10	✓ entr	ies			Search:
		Source $\Rightarrow$	TimeStamp	÷	Description
•	0	System	2020-12-30 15:39:34.000		System: Processor sensor event was assertion. Event message : ProcessorPresenceDetected
0	0	System	2020-12-30 15:39:34.000		System: Processor sensor event was assertion. Event message : ProcessorPresenceDetected
0	0	System	2020-12-30 15:39:56.000		System: Processor sensor event was assertion. Event message : ProcessorPresenceDetected
0	0	System	2020-12-30 15:39:56.000		System: Processor sensor event was assertion. Event message : ProcessorPresenceDetected
•	0	System	2020-12-30 15:55:05.000		System: SystemEvent sensor event was assertion. Event message : OemSystemBootEvent
•	0	System	2020-12-30 15:55:12.000		System: SystemEvent sensor event was assertion. Event message : TimestampClockSynch
0	0	System	2020-12-30 15:55:12.000		System: SystemEvent sensor event was assertion. Event message : TimestampClockSynch
0	0	System	2020-12-30 16:44:15.000		System: SystemEvent sensor event was assertion. Event message : TimestampClockSynch
0	0	System	2020-12-30 16:44:17.000		System: SystemEvent sensor event was assertion. Event message : TimestampClockSynch
0	0	System	2020-12-30 16:47:00.000		System: SystemEvent sensor event was assertion. Event message : OemSystemBootEvent

## 3-3-6 Alert Management

#### 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.

Destination	Enable	Ipv4/Ipv6	Address
	ON	۰	10.1.27.222
	CPF	® O	0.0.0.0
	077		0.0.0.0
	OFF	® 0	0.0.0.0
	0**		0.0.0
	OFF	O	0.0.0.0
	0**		0.0.0
	0**	© 0	0.0.0.0
	0**		0.0.0
3	0**	© 0	0.0.0.0
	0**		0.0.0
2	OFF	© 0	0.0.0.0
3	0#		0.0.0
\$ II	OFF	® O	0.0.0.0
5	019		0.0.0

## 3-3-7 Updates

The user can update node last log, BMC/BIOS firmware, CPLD in this page.

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.

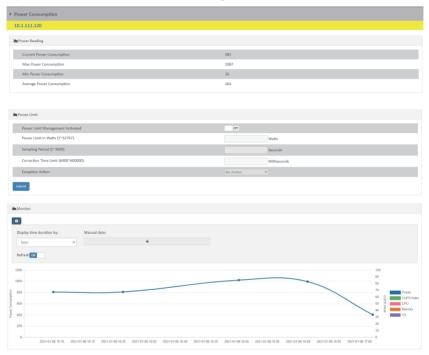
BMC Version: 12.49.0	6			
BIOS Version: R18b				
	one of the sec			
Select package and u	pdate (File format: .zip)			
		Browse		
BMC 🗸	Undate			
BMC ~	Update			
BMC Y	Update			
BMC V	Update			
BMC V	Update			

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.

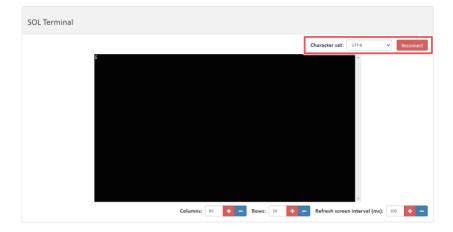


## 3-3-9 SOL Terminal

This screen displays SOL Terminal information of the system.

To connect SOL terminal, follow the instructions below:

- 1. Select Character set from the drop-down list.
- 2. Select the file on your local system using Reconnect.



#### 3-3-10 Software

This pages provides user to view the related software information. Software information includes GSM Agent Status, System Information, Network Information, PCI Information, and RAID Card 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. 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. 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.

a succession of the second sec		
Agent Status: Off-line		
<b>RAID</b> Card Information		
N/A		
Software		
10.1.7.80		
Agent Status: On-line		
System Info		
OS version	Ubuntu 16.04	
CPU Info	Intel(R) Xeon(R) W-2123 CPU @ 3.60GHz	
Memory Info	DDR4 2666 MHz	
Hostname	gigabyte-MF51-ES3-QZ	
BMC version	12.49	
CPU usage	25.11%	
Memory usage	98.66%	
Network Info		
enp3s0		
NIC IPv4 Address	10.1.7.88	
NIC IPv6 Address	fe80:::e988:5345:88dd:543f	
NIC MAC Address	b4:2e:99:25:dd:e2	
NIC Description	enp3s0	
Software		
NIC Description	enp3sD	
enp4s0		
NIC IPv4 Address	0.0.0	
NIC IPv6 Address	0.030.0:0.0.030	
NIC MAC Address	b4:2e:99:25:dd:e2	
NIC Description	enp4s0	
PCI Info		
PCI Manufacturer	Intel Corporation	
PCI Type		
Sky Lake-E RAS Configuration Registers		
PCI Manufacturer	Intel Corporation	
PCI Type	System peripheral	
Sky Lake-E RAS Configuration Registers		
PCI Manufacturer	Intel Corporation	
PCI Type	System peripheral	
Sky Lake-E RAS Configuration Registers		
PCI Manufacturer	Intel Corporation	

## 3-3-11 Remote BIOS Setup

User can update BIOS settings through Remote BIOS Setup function. Using .json file to configure BIOS settings.

Browse: Select .json file from locale side

Import: Import file which you selected Export: Download currently BIOS settings Reset Default: Reset BIOS settings

Save: Save modified BIOS settings

Remote BIOS Setup	😡 Browse 🕹 Import 🕹 Export C Reset Default 🗈 Save
Administrator Password	No action      Set      Delete     Password
User Password 🕄	No action O Set O Delete Password
ErP Mode	Disabled
Security Device Support 🚯	Enable
Disable Block Sid 🕄	Disabled 🗸
TPM State 🚯	Enabled
Pending operation <b>()</b>	None
Security Device Support <b>()</b>	Enable
TCM State	Enabled ¥
Device Select <b>()</b>	Auto
SHA-1 PCR Bank 🚯	Enabled

## 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** for advanced configuration.

GIGABYTE	ты	🗏 System Manager	Group Manager							
📰 Filter: Group List	•	Group Setting								
Search Q	=									
😨 test 🔻	0	Add Delete								
		Show 10 v entri	es					Search:		
		Select 🔺	Group ID	Group Name	\$ Group Type	\$	Description			\$
			17	test	Standard without 0	CMC			Submit	
		0	21	GPU	GPGPU				Submit	
		Showing 1 to 2 of 2 e	ntries				First	Previous	1 Next	Last

Parameter	Description/Resulting Action
Select	Check <b>Select</b> 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 <b>Group Name</b> to view the Group dashboard information and Group remote management functions.
Group Type	Displays the group type information.
Description	User can add a description for selected group. When you have finished configuration, click <b>Submit</b> .

#### Create a Group

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

Group Setting							
Add Delete							
Show 10 v entri	es					Search:	
Select 🔺	Group ID 🛛 👙	Group Name	÷	Group Type	÷	Description	▼
	17	test		Standard without CMC			Submit
	21	GPU		GPGPU			Submit
Showing 1 to 2 of 2 e	ntries					First Previous	1 Next Last
Group Name							
Group Type				ndard without CMC 🗸 ndard without CMC			
Submit Close				GPU			

### **Group Manager**

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

Filter: Group List	•	<ul> <li>Information</li> </ul>							
earch	Q ≡ ÷	GPU2							
🛛 test 🔻	0	Add IP Delete	e IP Group Rename						
		Show 10 🗸 e	ntries						Search:
		Select *	BMC MAC 0	BMC IP	BMC Connection	BMC Version 0	Node Type 🔅	BIOS Info 🕴	Download Last Crash Screen
			B4:2E:99:26:FF:0C	10.1.111.117	false	N/A	BMC	View	Download
			18:C0:4D:80:62:CE	10.1.111.120	true	R17a	BMC	View	Download
			E0:D5:5E:CD:A5:63	10.1.111.130	false	R14	BMC	View	Download
			B4:2E:99:3B:7E:B5	10.1.111.134	true	R08	BMC	View	Download
			B4:2E:99:A1:65:02	10.1.111.138	true	R19	BMC	View	Download
			18:C0:4D:80:AA:8A	10.1.111.139	true	D07	BMC	View	Download
		•	E0:D5:5E:C7:0D:F1	10.1.111.141	true	R23	BMC	View	Download
		•	E0:D5:5E:E7:EC:61	10.1.111.144	true	R13	BMC	View	Download
			E0:D5:5E:C7:0D:CD	10.1.111.155	true	R31	BMC	View	Download
		0	E0:D5:5E:65:90:82	10.1.111.157	true	R18b	BMC	View	Download
		Showing 1 to 10 c	of 22 postning						Previous 1 2 3 4 Nex

#### 3-4-1 Information

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.

GIGABY	ſE⁼	📗 System Manager								
🗄 Filter: Group List	•	<ul> <li>Information</li> </ul>								
Search	Q ≣ _	GPU2								
😰 test 👻	0 <u>^</u>	Add IP Delete								
		Show 10 v et							Search:	
		Select *	BMC MAC 0 B4:2E:99:26:FF:0C	BMC IP 0	BMC Connection 0	BMC Version 0	Node Type 0 BMC	BIOS Info	Download Last Crash Screen	- 0
			B4.22.33.20.FF.0C	10.1.111.117	laise	11/4	BINC	View	Download	
		0	18:C0:4D:80:62:CE	10.1.111.120	true	R17a	BMC	View	Download	
			E0:D5:5E:CD:A5:63	10.1.111.130	false	R14	BMC	View	Download	
		0	B4:2E:99:3B:7E:B5	10.1.111.134	true	R08	BMC	View	Download	
			B4:2E:99:A1:65:02	10.1.111.138	true	R19	BMC	View	Download	
		0	18:C0:4D:B0:AA:8A	10.1.111.139	true	D07	BMC	View	Download	
			E0:D5:5E:C7:0D:F1	10.1.111.141	true	R23	BMC	View	Download	
		0	E0:D5:5E:E7:EC:61	10.1.111.144	true	R13	BMC	View	Download	
		•	E0:D5:5E:C7:0D:CD	10.1.111.155	true	R31	BMC	View	Download	
		0	E0:D5:5E:65:90:82	10.1.111.157	true	R18b	BMC	View	Download	
		Showing 1 to 10 or	133 entries						Previous 1 2 3 4	Next

Select 🔺	BMC MAC 🕴	BMC IP	Node Type
	B4:2E:99:26:FF:0C	10.1.111.117	BMC
	18:C0:4D:80:62:CE	10.1.111.120	BMC
	E0:D5:5E:CD:A5:63	10.1.111.130	BMC
	B4:2E:99:3B:7E:B5	10.1.111.134	BMC
	18:C0:4D:B0:AA:8A	10.1.111.139	BMC
	E0:D5:5E:C7:0D:F1	10.1.111.141	BMC
	E0:D5:5E:E7:EC:61	10.1.111.144	BMC
	E0:D5:5E:C7:0D:CD	10.1.111.155	BMC
	E0:D5:5E:65:90:82	10.1.111.157	BMC
	E0:D5:5E:65:8F:04	10.1.111.161	BMC
owing 1 to 10 of	35 entries	Previous 1 2	3 4
		Next	

#### Add (All 🗆)

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

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



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

▼ Remote Access
GPU2
Power Control
UOC2
Chassis Identify
Light on chassis identify in 0 v jsecond(s) submt
Boot Option Legacy V
PRE DISK CDRDM BICS
Group Reboot BMC
Rebox18MC
▼ Ramote Access
Group Reboot BMC
RebustEMC
BMC Backup/Restore Configure
Restore BMC Configure (File format: .bin)
BIOS Setup information
Select JSDN file for importing BIOS Setup information. (File format: .json)

▼ Remote Access	
BIOS Setup information	
Select JSON file for importing BIOS Setup information. (File format: .json)	ngent Egypt
New Network Time Protocol	
Operation Mode New Network Time Protocol Server 1	Disabled 🗸
New Network Time Protocol Server 2	2001.2003.0001.2001
New Network Time Protocol Server 3	2001.2001.2001
	2007/2007/2008
Requested Mode's Update Frequency (minutes)	integer
Setting	

#### 3-4-3 Updates

Users can configure the TFTP server and update node last log,PSU/BMC/BIOS/ firmware, CPLD\_MD, and CPLD\_BPB 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	2						
GPU2 G	Group Update						
Updat	e process:	( <b>0</b> / <b>4</b> ) Completed	1				
Plea	ase select n	odes:	вмс	BIOS		<u>^</u>	Select package and update (File format: .zip)
	select	BMC IP	Version	Version	Progress	Last	BMC Browse Update
		10.1.111.138	12.49.05	R19		w	BIOS CPUD_MB
		10.1.111.168	12.49.06	N/A		w	CPLD_BPB PSU
		10.1.111.25	12.49.06	MT02		w	
		10.1.111.85	12.83.22	D01		w	
4						+	

#### 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			
GPU2			
Clear Download			
Show 10 v entries			Search:
Timestamp	🔻 Level	Description	¢
2021-01-07 02:59:10.308	2	Add group member: 10.1.111.9	17
2021-01-07 02:59:10.260	2	Add group member: 10.1.111.9	1
2021-01-07 02:59:10.209	2	Add group member: 10.1.111.9	0
2021-01-07 02:59:10.150	2	Add group member: 10.1.111.8	17
2021-01-07 02:59:10.091	2	Add group member: 10.1.111.8	15
2021-01-07 02:59:10.043	2	Add group member: 10.1.111.7	9
2021-01-07 02:59:09.989	2	Add group member: 10.1.111.7	7
2021-01-07 02:59:09.943	2	Add group member: 10.1.111.7	'4
2021-01-07 02:59:09.898	2	Add group member: 10.1.111.6	7
2021-01-07 02:59:09.849	2	Add group member: 10.1.111.6	i6
Showing 1 to 10 of 39 entries			Previous 1 2 3 4 Nex

#### 3-4-5 Power Consumption

**Power Consumption** 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	
GPU2	
Policy	
Add Dekke	
Show 10 v entries	Search:
Select Power Limit in Watts  Start Time	End Time 🗘
Showing 0 to 0 of 0 entries	Previous Next
Current total watts:	
Show 10 v entries	Search:
BMC MAC A BMC IP Power Consumption Average Power Power	Limit in Watts 0
0	* *
4 Showing 0 to 0 of 0 entries	Previous Next

Parameter	Description/Resulting Action
Policy	Click <b>Add</b> 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.

v	Network Configuration
	GPU2
	Network configuration
	IPv4 Settings
	вка
	IPv6 Settings
	DKCP

#### 3-4-7 Alert Management

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



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

Setting			
IP Destination	Enable	lpv4/lpv6	Address
1	OFF	۰	0.0.0.0
2	OFF	<ul> <li>O</li> </ul>	0.0.0.0
3	OFF	• •	0.0.0.0
4	OFF	<ul> <li>O</li> </ul>	0.0.0.0
5	OFF	• •	:
6	OFF	0 🖲	:
7	OFF	0 🖲	
8	OFF	0 🖲	::

# 3-5 Deployment

User can create the deployment for specified node or multi nodes.

GIGABYTE	🔠 System Mani	ager 🛛 🏭 Group Manager	E Deployment	Alert	🌲 Account	📌 Preference	? help				09 Logo
🗄 Filter: All 🛛 🔻	Deploym	ient									
Search Q =	Add										
6A.	Show 10	✓ entries								Search:	
80	\$	Name 🔺	Active	0 Stat	us ¢	Start Time	¢	End Time	¢	Information	÷ ÷
	0	New Deployment	Completed	Suc	cess	2020-12-17 01:41:52.627		2020-12-17 01:41:52.931		[GroupID: DeployID: 5fdab74746f3430414d8ca51] Group power option (1)	Run Edit
8										completed	_
8	Showing 1 t	to 1 of 1 entries								First Previous	1 Next Last
•											
8											
57A											
8											
80											
80											
0											
80											
10 10											

#### **Create a Deployment**

- 1. Click Add.
- 2. Define the new deployment name in the respective column.
- 3. Define deployment conditions from the drop-down list.
- 4. When you have finished configuration, click Submit.

Deployment Name: No	w Deployment								
Remote Access		~	Power Cor	itrol	~	Power on			,
how 10 🗸 entries							Search:		
	BMC IP			BMC MAC		φ.	Node Type		
	10.1.111.101			B4:2E:99:75:C6:76			CMC		
0	10.1.111.117			18:C0:4D:05:31:2F			Unknown		
	10.1.111.120			18:C0:4D:80:62:CE			BMC		
0	10.1.111.121			00:00:00:1F:2D:32			BMC		
	10.1.111.123			00:00:00:14:CC:FD			BMC		
0	10.1.111.130			E0:D5:5E:CD:A5:63			BMC		
	10.1.111.134			B4:2E:99:3B:7E:B5			BIMC		
0	10.1.111.138			B4:2E:99:A1:65:02			BMC		
	10.1.111.139			18:C0:4D:80:AA:8A			BMC		
0	10.1.111.141			E0:D5:5E:C7:0D:F1			BMC		
howing 1 to 10 of 52 en	triar				First Previo	us 1 2	3 4 5	6 Next	Last

# 3-6 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.

GIGABYTE	📗 System Manager 🛛 🔡 Group Manager	III Deployment	? help	00 Logo
🗄 Filter: All 🛛 🔻	Node Status			
	Show 10 v entres Status No data available in table	BMC IP	BMC MAC	Search

# 3-7 Account

This page provides the function to create a specific user account. Click **Account** for advanced configuration.

GIGABYTE	🏢 System Manager 🛛 🗱 Group Mar	søger 🔡 Deploymen	e 🗈 Alert 📕 Account	+ Preference ? help		€+ Logout
🗄 Filter: All 🛛 🔻	User Privileges					
Search Q ≡ _	Add Delete					
	Show 10 v entries Select	Enable	User Name	¢ Level	\$ Туре	Search:
	Showing 1 to 1 of 1 entries	true	admin	ROLE_ADMIN	LOCAL	Edit Previous 1 Next
	Save					
	Permission			ROLE_OPERATOR	ROLE_OSADM	ROLE_USER
	User Account Managemen	t		-	-	
	Virtual Media Access Power Control Access			0		
				0	0	0
	Logs (Modify/Delete)					
	Get Information				0	
	oct mornator			-	0	
	LDAP					
	LDAP Host			Port		
				0		

#### **Create an 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.

Add Member	
User Name	Password
Enable	Level
● true ○ false	ROLE_ADMIN V
	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**.

LD	λP	
_	LDAP Host	Port
		0
s	demit	



#### NOTE!

When configuring the LDAP Server, you need to set the LDAP Host and Port in <sup>a</sup> advance.

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

# 3-8 Preference

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

GIGAB	/TE <sup>®</sup>	📕 System Manager	III Group Manager	🔝 Deployment 🛛 🛕 Al	lert 🌲 Account 🗶 Prefere	nce ? help			9 Logout
🗄 Filter: All	•	▼ IP Range							
Search	= _								
😰 test 👻	0	IP Range Settin	ıg						
			ate row						_
		Delete	Start IP	End IP	Scan Type	Policy Name	Username	Password	Rescan
			10.1.111.10	10.1.111.200	BMC CMC ESX	New policy	admin	password	Rescan

Click the drop-down list for advanced configuration.

▼ IP Range						
IP Range						
Event Log						
Alert Management						
Database						
Properties						
Gbt Interactive Utility						
Update	End IP	Scan Type	Policy Name	Username	Password	Rescan
Language	10.1.111.200	🖾 BMC 🖾 CMC	New policy	admin	password	Rescan
		ESX				

#### 3-8-1 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							
IP Range Setti	ng						
Delete	Start IP	End IP	Scan Type	Policy Name	Username	Password	Rescan
	10.1.111.10	10.1.111.200	BMC CMC	New policy	admin	password	Rescan

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.
ESX	VMware ESX Server Controller.

#### 3-8-2 Event Log

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

▼ Event Log					
Clear Download					
Show 10 v entries					Search:
Timestamp	*	Level	0 Des	scription	\$
2021-01-07 06:20:49.136		2	Get	t RMC/CMC node, group ID: 24	
2021-01-07 06:20:43.275		2	Get	t RMC/CMC node, group ID: 23	
2021-01-07 05:20:38.827		2	Get	t RMC/CMC node, group ID: 22	
2021-01-07 06:20:37.790		2	Get	t RMC/CMC node, group ID: 20	
2021-01-07 05:09:40.741		2	Get	t RMC/CMC node, group ID: 25	
2021-01-07 06:09:35.099		2	Get	t RMC/CMC node, group ID: 24	
2021-01-07 06:09:29.205		2	Get	t RMC/CMC node, group ID: 23	
2021-01-07 05:09:24.776		2	Get	t RMC/CMC node, group ID: 22	
2021-01-07 06:09:23.766		2	Get	t RMC/CMC node, group ID: 20	
2021-01-07 05:20:46.647		2	Get	t RMC/CMC node, group ID: 25	
Showing 1 to 10 of 1,645 entries					Previous 1 2 3 4 5 165 Next
User Action's Log					
Show 10 v entries					Search:
No. 🖡 Timestamp 🗄	User Name 🕴	Client IP 0	Action 🕴	Description	
154 2021-01-07 06:38:14.221	admin	10.1.2.29	LOGIN	Log in	SUCCESS
153 2021-01-07 06:28:46.997	admin	10.1.2.29	LOGIN	Log in	SUCCESS

#### User Action's Log Event Log

Displays the action event log of users.

N 10 N	<ul> <li>entries</li> </ul>						Search		
No. 🔻	Timestamp	÷	User Name   🍦	Client IP	\$ Action 🕴	Description		\$	Result
154	2021-01-07 06:38:14.221		admin	10.1.2.29	LOGIN	Log in			SUCCESS
153	2021-01-07 06:28:46.997		admin	10.1.2.29	LOGIN	Log in			SUCCESS
152	2021-01-07 05:39:47.504		admin	10.1.7.151	LOGIN	Log in			SUCCES
151	2021-01-07 05:39:23.536		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.85 from group ID with 2	7		SUCCES
150	2021-01-07 05:39:23.482		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.25 from group ID with 2	7		SUCCES
149	2021-01-07 05:39:23.430		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.168 from group ID with	27		SUCCESS
148	2021-01-07 05:39:23.374		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.138 from group ID with	27		SUCCESS
147	2021-01-07 05:39:12.782		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.120 from group ID with	17		SUCCESS
146	2021-01-07 05:39:12.720		admin	10.1.7.151	DELETE	Delete IP with 10.1.111.117 from group ID with	17		SUCCESS
145	2021-01-07 05:38:29.936		admin	10.1.7.151	LOGIN	Log in			SUCCESS
wing 1 to :	10 of 155 entries					Previous 1 2	3 4	5	16 Ne

#### 3-8-3 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		017	
Host Address		10.1.27.222 ¥	
Alerting Level		Unknown ¥	
- Critical: Only Critical event     - Non-Critical Critical event     - Non-Critical Critical event     - Unknown: All event     Destination     IPvd Destination	Enable	IP4 Address	
1	077	0.0.0.0	
2	OFF	0.0.0.0	
3	orr	0.0.0.0	
4	OFF	0.0.0.0	

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 <b>3-3-5 Event Log</b> for description of alerting level.

### Destination

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

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	

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 <b>Submit</b> to save your configuration.	

#### 3-8-4 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				
	61.95%	c 37.46%		
	Total Size: 29.4 GB			
	Other Usage: 18.22 GB			
	Database Usage: 0.17 GB			
	Free Space: 11.01 GB			
Database Restore/Backup			€ Brows ▲Badup	
Database Reset				
Reset the database dat	ta			

#### 3-8-5 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** useage.
- 2. Define checking time. In each routine check, GSM will check log date
- 3. When you finish the configuration, click **Submit**.

Database
In each routine check, GSM will check database usage and data date
If disk usage over the settings, GSM will delete data from database
0% 10% 50% 50 %
Keep database data in $[\underline{365 v}]$ day(s)
tog
In each routine check, GSM will check log date
Keep log file in T v day(s)
Log rotation
Keep log files down to a manageable size
Rotate the log files each hour 💙
Rotation size 1 0 1024 50
BMC Node Update Setting
GSM will follow setting to update BMC node during fixed period.
Node quantity 50 300 50 nodes
Node update period 3 10 5 minutes
Sidmit

#### **BMC Node Update Setting**

Configuration of interval and number of nodes.

Parameter	Description
Node quantity	Search number of nodes.
Node update period	Update node intervals.

#### 3-8-6 Gbt Interactive Utility

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



#### 3-8-7 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**.

v Update
Update
Select package and update (file format: war) Current Version: GIGABYTE GSM Server v2.04 Choose File No file chosen Update
Update Server
IP:
Update keystore
Keystore file: Choose File: No file chosen

#### 3-8-8 Language

User can select the preference language in this page.

▼ Language			
Q Language			
Language 🗸			

# 3-9 Help

Help page provides general information including System manager, Group manager, Deployment, Alert, Account, and Preference.

Current Version: GIGABYTE GSM Server v2.04				
Menu Description				
meur pescubrion				
System Manager + Group Manager + Deployment Alert Account Preference				
Hardware requirements				
- System Processor: 2 GHZ and above				
- System Memory: Minimum 4 GB RAM - Free Disk Space: 2000 GB at least - Node Servers: 255 maximum				
- Note serves 200 minimum				

# 3-10 Logout

Click Click to logout of the system.

GIGABYTE	📕 System Manager 📰 Group Manager 📰 Deployment 🛕 Alert 🌲 Account	le Preference ? help
🗄 Filter: All 🛛 🔻	▼ Information	
Search Q =		
test = 🕡	Description Node Description	Submit
	FRU	Bifresh
	Chassis Type	RackMountChassis
	Chassis Part Number	01234567
	Chassis Serial	01234567890123456789AB
	Board Mfg Date	2020-03-11 01:27:00.000
	Board Mfg	GIGABYTE
	Board Product	M262-HD0-00
	Board Serial	JLAN1100764
	Board Part Number	123456789AB
	Product Manufacturer	GIGABYTE
	Product Name	H262-Z63-00
	Product Part Number	00000000001
	Product Version	0100
	Product Serial	GJG9N2112A004201
	Product Asset Tag	01234367890123436789AB
	Hardware	
	Software	

# Chapter 5 Appendix 5-1 Event Log List

SNMP ID	Event Level	Event Function	Event Description
D06F00	FATAL	DB	Database connnection failed.
D06F01	ERROR	DB	Database connnection 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	Found new OpenRack1.0 RMC
		Discover	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	Node has been terminated
		frequency	
DC6F03	ERROR	Node BMC Update	No compatible image, end process
DC6F04	ERROR	Node BMC Update	Cannot connect to TFTP server,
		Node BINC Opdate	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