GIGABYTE[™]

Gigabyte Server Management Console

User's Guide

Rev. 1.1

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Documentation Classifications

In order to assist in the use of this product, Giga Computing 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/Enterprise

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

For further technical assistance, please contact your GIGABYTE representative or visit https://esupport.gigabyte.com/ to create a new support ticket

For any general sales or marketing enquiries, you may also message GIGABYTE server directly by email: server.grp@gigabyte.com

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Chapter 1 Getting Started

1-1 Software Requirement

- Client machine with 8GB RAM.
- If the client machine has 4GB RAM, there will be lag in Video/keyboard/mouse functionality.

Supported Browsers

- Chrome latest version.
- IE 11 and above.
- Firefox (with limited support).



Note: It is advisable to use Chrome or IE for H5Viewer, since Firefox has its own memory limitations

1-2 Gigabyte Management Console Network Configuration

Follow the instruction to enable the console redirection function.

1. You can gather the IP address on the POST screen.



- 2. Or, Go to BIOS setup menu.
- 3. Select Server Management.
- 4. Select BMC network Configuration.
- 5. Define Configuration Address source to DynamicBmcDhcp or Static.
- 6. Save and Exit.
- 7. The BMC IP Address will appear on the IPv4 Address parameter.



8. Save the configuration and exit BIOS setup menu.

1-3 Log In Gigabyte Management Console

To access the Gigabyte Management Console, the BMC Web utility will prompt you to enter the User Name and Password.



I forgot my password

The fields are explained as follows: For basic login to the BMC Web UI, use the following login:

- Username: admin
- Password: Refer to unique MB serial number.

NOTE!

If your motherboard / server version is older than G9 (upgrade version), then use the following login: Username:admin Password: password

This serial number can be found on the serial number sticker located on the motherboard of every GIGABYTE server motherboard and system. The unique pre-programmed password will be the last 11 characters of the serial number. For example, for the below serial number, the password will be "JG4P6400027"



GIGABYTE will also affix new stickers that display the unique BMC password (example below) to both the product box (packaging) and to the CPU cover (for motherboards sold separately) or the server chassis.

Please see the reference guide below / attached for where to find locations of this sticker according to product / model type.

Products that have been implemented with this change will be indicated as version G9 on the "Upgrade Version" sticker located on the motherboard / motherboard anti-static packaging / server chassis / server packaging

Remember Username: Check this option to remember your login credentials.

Sign me in: After entering the required credentials, click the Sign me in to login to GUI. I forgot my password: If you forget your password, you can generate a new one using this link. Enter the username, click on Forgot Password link. This will send the newly generated password to the configured Email-ID for the user.

1-3-1 Required Browser Settings:

Allow file download from this site: For Internet Explorer, Choose Tools ->Internet Options ->Security Tab, based on device setup, select among Internet, Local intranet, trusted sites and restricted sites. Click Custom level.... In the Security Settings - Zone dialog opened, under settings, find Downloads option, Enable File download option. Click OK to the entire dialog boxes.

For all Other Browsers, accept file download when prompted.

Enable javascript for this site: The icon indicates whether the javascript setting is enabled in browser.

Enable cookies for this site: The icon indicates whether the cookies setting are enabled in browser.



Cookies must be enabled in order to access the website.

1-4 Quick Button and Logged-in User

The user information and quick buttons are located at the top right of the Web GUI. A screenshot of the logged-in user information is shown below.



User Information

The logged-in user information shows the logged-in user, his/her privilege and the four quick buttons allowing you to perform the following functions:

Logged-in user and its privilege level

This option shows the logged-in user name and privilege. There are five kinds of privileges.

User: Only valid commands are allowed.

Operator: All BMC commands are allowed except for the configuration commands that can change the behavior of the out-of-hand interfaces.

Administrator: All BMC commands are allowed.

No Access: Login access denied.

OEM: All OEM commands are allowed.

Notification: Click the icon to view the notification messages.

Refresh: Click the icon to reload the current page.

Sync: Click the icon to synchronize with Latest Sensor and Event Log updates.

Sign-out: Click the icon to log out of the Web GUI.

Warning: Click to view the warning messages.

1-5 Help

Help - The Help icon (?) is Located at the top right of the each page in Web GUI. Click this help icon to view more detailed field descriptions.

1-6 Menu Bar

The menu bar displays the following:



This page intentionally left blank

Chapter 2 Enter Gigabyte Management Console

2-1 Dashboard

The Dashboard page gives the overall information about the status of a device. To open the Dashboard page, click **Dashboard** from the menu bar. It displays the following:

	@ 2000-01-05 09:24:10 (UTC+0	1:00 UTC)			8	5 A	♦ Sync	C Refresh	💄 admin 🗸
EMAC Firmware Information 2.78.0 Feb 20 2019 19:31:34 CST Not Office	Dashboard Control Panel							# Home	> Dashboard
Quick Links *	16 d 9 ^{hrs}	656	I	15					
# Dashboard	BMC Up Time	Pending Deassertions	T	Access Logs					
🚳 Sensor		More info 😋		More info 🕥					
System Inventory	🕰 Today (o)	etails 🛛 30 days (+6)	Details	 Sensor Monitorin 	g				
FRU Information									
네 Logs & Reports >				0					
Settings				Currently recovere	d				
Remote Control	No events for today	system_ev 31 event	ent S						
Image Redirection									
O Power Control									
🗲 Maintenance									
🕞 Sign out									

Dashboard

A brief description of the Dashboard page is given below.

BMC Up Time

It indicates the Power On time.

Pending Deassertions

It lists the all pending events incurred by various sensors and occupied/available space in logs can be viewed. To know about the pending events details, click the More info link. This navigates to the Event Log page.

Access Logs

A graphical representation of all events incurred by various sensors and occupied/available space in logs can be viewed, if you click on the More info link, you can view the Audit Log page.

Today & 30 Days (Event Logs)

This page displays the list of event logs occurred by the different sensors on this device. Click Details link on Today and 30 days to view the event logs for Today and 30 days respectively.

Sensor Monitoring

It lists all the critical sensors on the device. If you click on any list sensor, you can view the Sensor detail page with the Sensor information and Sensor Events details.

2-2 Sensor

The Sensor Readings page displays all the sensor related information.

To open the Sensor Readings page, click Sensor from the menu. Click on any sensor to show more information about that particular sensor, including thresholds and a graphical representation of all associated events.

A sample screenshot of Sensor Readings page is shown below.

MEGARAC SP-X	=			🛎 🔺 OSync 🖸 Refresh 💄 admin -
Ennexistinformation 2.03.02974 Dec: 9.2036 10627c58 IST @ Heat Office	Sensor Reading Loom	iding of all sensors		# Home - Sensor Anading
Quick Links. *	Critical Sensors (2)			
# Dashboard				
 Sensor 	70 °C	(60 °C		
System Inventory	スリノト			
FRU Information				
	ROC1 Temp	ROC2 Temp		
Ø Settings	Discrete Sensor States	; (2)		
Contracte Redirection	Sensor Name		State	
	SEL_sensor		No state defined	
Power Control	@ Watchdog2		No state defined	
	Normal Sensors (1)			
	Sensor Name	Reading	Behavior	
	8 BBU2 Temp	26 °C		
	Disabled Sensors (15)			
	≭Temp_1	🕱 Temp_S	# Chassis_Intr	# Voltage_VCC
	# Fan_1	# Fan_2	H Temp_3	¥ Temp_4
	₩ Voltage_2.5V	¥ Voltage_SV	# Voltage1_12V	# Temp_2
	🕱 Expanderi Temp	🕱 BBU1 Temp	N Expander2 Temp	

The Sensor Readings page contains the following information:

In this Sensor Reading page, Live readings for all the available sensors with details like Sensor Name, Status, Current Reading and Behavior will be appeared, else you can choose the sensor type that you want to display from the list. Some examples for sensors are Temperature Sensors, Fan Sensors, Watchdog Sensors and Voltage Sensors etc.

Note: Four DIMM Temp sensors are deployed for monitoring the DIMM temperature on the system. Users must take notice that the live reading of each DIMM Temp sensor indicates the temperature of a DIMM group, not the temperature of a specific DIMM.



Note: Four DIMM Temp sensors are deployed for monitoring the DIMM temperature on the system. Users must take notice that the live reading of each DIMM Temp sensor indicates the temperature of a DIMM group, not the temperature of a specific DIMM.

2-2-1 Sensor Detail

Select a particular Sensor from the Critical Sensor or Normal Sensor lists. The Sensor Information as Live Widget and Thresholds for the selected sensor will be displayed as shown below.



Note:For Illustrative Purpose, a sample screenshot of Sensor detail page with Change Thresholds option is shown and explained below.

MEGARAC SP-X	=	🗃 🛦 🕫şmc 🕫 R	efresh 1 admin
Extravel information 2.05.03914 Apr 13 2007 5058082 657 @ Host Office	Sensor detail Al information about this sensor	∰ Homs ≻ Sen	tor Reading > Sensor (
nck Links	* □ Temp_1 Sensor Information		
Dashboard	1	0 °C	
	38.89-	Upper Non-Recoverable	30 °C
System Inventory	25.00-	Upper Critical	30 °C
	29.99 -	Upper Non-Critical	30 °C
niti morriadon	P 15.00-	Lower Non-Ortical	10 °C
Logs & Reports	> 10.00-	Lower Critical	10 °C
Settings	5.00-	Lower Non-Recoverable	10 °C
Remote Control	0.00-+	I	Juange Thresholds
image Redirection	12.29.44 Tives (H+13ML58)	12:39:53	
	Sensor Events		
	Magneed Frends		
	April 2017		
	10: 1 Temp_1 sensor of type temperature logged a OS hours ago upper critical going high		
	0		



Note: Widgets are little gadgets, which provide real time information about a particular sensor. User can track a sensor's behavior over a specific amount of time at specific intervals. The result will be displayed as a line graph in the widget. The session will not expire, until the widgets gets a live data of the last widget that is kept opened. For the selected sensor, this widget gives a dynamic representation of the readings for the sensor.

There are six types of thresholds:

- Lower Non-Recoverable (LNR)
- Lower Critical (LC)
- Lower Non-Critical (LNC)
- Upper Non-Recoverable (UNR)
- Upper Critical (UC)

• Upper Non-Critical (UNC)

The threshold states could be Lower Non-critical - going low, Lower Non-critical - going high, Lower Critical - going low, Lower Critical - going low, Lower Critical - going low, Lower Non-recoverable - going high, Upper Non-critical - going low, Upper Non-critical - going low, Upper Critical - going low, Upper Critical - going low, Upper Critical - going low, Upper Non-recoverable - going low, Upp

A graphical view of these events (Number of Entries vs. Thresholds) can be viewed as shown in the Sensor Readings page screenshot.

2-2-2 Threshold Settings

Click Change Thresholds to configure threshold settings. A sample screenshot is given below.

MEGARAC SP-X		🐹 🛦 O Sync 😂 Refresh
Ennewark Information 2.4.1.4.0914 Apr 13.2017 Statistiz 657 © Host Offline	holds	ill Home - Sattings
nis. + Change Thres	hold Values 💿	
hboard Sensor Name		
ensor Temp_1		
Upper Non-recover	rable	
RU Information		
ogs & Reports > 30		
uttings Upper Non-critical		
emote Control		
nage Rickretton		
lower Control		
Maladous value 10		
Lower Non-recover	rable	
10		

Enter the Threshold values and click Save to configure the threshold values.



Note: The Threshold Settings will be enabled only for administrator or operator privilege users. For other users the Threshold Settings option will be disabled and they cant access to perform this action.

View this Event Log

You can click here to view the Logs & Reports for the selected sensor.

2-3 System Inventory

The System Inventory page displays the following information:

- CPU Inventory
- DIMM Inventory
- PCI Inventory
- HDD Inventory
- NIC Inventory

A screenshot displaying the menu items under System Inventory is shown below.



A detailed description of System Inventory is given below.

2-3-1 CPU Inventory

This page displays all detected CPUs on this device. Select one CPU to see the details of that entry or click on Expand All to view all entries in details. Click Download **SMBIOS file** to download the SMBIOS file.

	■ 0.200-01-0	5 1422 28 (JPC-0000 (MP)						B & US-English	- Offers Offersh & admin
BHC (Represent information 12.42.05 Age 20 2020 18.58.29 Cit 0 Read Colore	CPU Inven	tory							d None - (P) iner
uidtūnis. •									
	-0 CPUB:	0082	1004u						Pressure Presses Delected
	- Dealter	lormation for OFU							
	Nandacharar		Family	External Oock	Max Speed	Speed	Core Count	Core Enabled	Thread Count
				200-0001MH	4,000 SHG	2.400.5Hz	10	30	28
	= Cepabili	y information for CPU							
	(P7 Casebilly	Name					Capatria	(ref	int in the second s
							•	•	
							0	0	
							0	0	
	Turbollfode						0	٥	
	= Cabele	formation for OP2							
	Level	Radinan Sat		Installed Star	Type	Nille Each Pulley		Ever Converti	un Type
	4	640.93		640.43	Instruction	Ninte Back		Single bit 000	
	2	2024040		1424148	Unified	Varies Nith Henory Address		Segle-bit 000	
	3	1408040		D-RINE HIB	Unified	Varies Mith Henory Address		Signalization	
	0/2010								
	2000								

2-3-2 DIMM Inventory

This page displays all detected DIMMs on this device. It allows you to see memory attributes, individual memory details or all entries in detail by clicking on **Expand All**. Click **Download SMBIOS file** to download the SMBIOS file.

	@ 2022-01-03 1000031 (UTC-0000 C3T) - Anim Terper	S ▲ US-Drajtah • ●BOS 0-Sprc D'Retrack & advair •
BPC firmeen lefernation 12.04.12 Feb as seen assesse:CET 0. Real Online	DIMM Inventory	• wave - Creditoring
QuickLinks.		Colloper All Expand All Described SMIDON for
e Durboard		0
a Server	Henory Athbata	
• System Inventory	 Individual menory betalls 	
TRUMenter	+0 DMM_P0_A0 : Semang H055A243063 CHE	(resource boards)
	+O DMM_PO_ALISamourg ROBBACK0083-CME	(Preserve Lancood)
M Ligitaneports	+ 6 DMM_P0_80:Samoung HOSH2M008D-CME	(newspace)
 Settings 	+0 DMM_P0_81: Semong M0934244068-CME	(FROME DATE)
Emote Control	+ D DIME_PO_CO: Samoung MIDIOADADDED-CHE	Press bacad
G InogeRedention	+0 0554_F0_C1: Samoung N28542543083-CHE	(municipation)
O Power Control	◆ 5 0MM_P0_00:Samaing M300A2M3003-CME	(Present Linear)
₽ Michelance	+ 0 DINK_P0_D0 I Samoung H295820K0060-CWE	(municipanis)
Br Sign out	+ 0 0/kH_/P0_80: SamoungH035A2443083 CH8	(house bound)
	+0 0HH,P0_E1:SemungH03040H0003-CHE	(numerican)
	+0 00M_P0_F0: Sensing H085A3K0003-CHE	(municipania)
	+0 DHH, P0,71: Samong H005A040003-CHE	(mmmiliana)
	+0 01ML/P0_001 Samsung M080A2M0005-CWE	(France Internet)
	+6 DMM_P0_61:Sensing M30042043003-CHE	(Presence Detector)
	+ © DMM_P0_H1: Sensing H355A24A2053 CHE	(Present install)
	+ O DIMM_PO_MI I Sensorg M393424X3083-Cive	(Present Destand)

2-3-3 PCI Inventory

This page displays all detected PCI cards on this device. It allows you to see on-board PCI cards, add-on PCI cards or all entries in detail by clicking on **Expand All**. Click **Download SMBIOS file** to download the SMBIOS file.

	O 2000-03-01 14/25/41 (UTC-0000 GHT) O					▲ US-English · O Sync O Refresh L admin -
ENCliments information 12.42.65 Apr 30.2020 Apr 30.2020	PCI Inventory					Mane > POInventory
0 Hot Orline						COMPARE COMPARES MELTING
Quick Links. +	- On Reard					
	= 1352 Glashit Network Connection					
	Manufacturer	Type	Vender ID	Device ID	Link Worth	Link Speed
	Intel Corporation	Ethernet controller	0+0006	0x1521	st.	Ger2
	 Ittl Grahit Natural Connection 					
	Manufacturer	Type	Wender ID	Device ID	Link Wolth	Link Speed
	Intel Corporation	Ethernat controller	0x8086	0x1521	#1	Gen2
	- ALPEED Graphics Family					
	Manufacturer	Type		Vendor ID Device ID	Link Width	Link Speed
	ASPEED Technology, Inc.	VSA compatible controller		042403 042000	26	Ser2
	= AST1150 PC+to-PC1Bridge					
	Maeufacturer	Type	Vendor ID	Device ID	Link width	Link Spred
	ASPEED Technology, Inc.	PCIbridge	0-1403	04110	xt	Ger2
	- Add in Card					
	- M22_1					
	= PO bridge					

2-3-4 HDD Inventory

This page displays all detected HDDs on this device. It allows you to see on-board HDDs, addon HDDs or all entries in detail by clicking on **Expand All**. Click **Download SMBIOS file** to download the SMBIOS file.

	Ø 2000-05-05 SH273B (UTC+0000 GMT)	■ A US-English • OSymc ØRefresh L admin •
HMC Firmware Information 31.42.45 Apr 30 2020 McSMc29 CST 0 Host Ordere	HDD Inventory	# Here > HOD townlary
Quelcunis.		Collapor All Expand All Expand All Expand All Expanded SMERCE No.
Sensor	This page displays information about HDO Hardware.	
• System Inventory		
FBJ Information		
lail Logs & Reports		
O Settings		
Remote Control		
Gi Image Redirection		
O Power Control		
9 Sgrout		

2-3-5 NIC Inventory

This page displays all detected NICs on this device. It allows you to on-board NICs, add-on NICs or all entries in detail by clicking on **Expand All**. Click **Download SMBIOS file** to download the SMBIOS file.

	O 2000-45-45 14:28:13 (UTC+00:00 GMT)	■ A US-Englah v OSync ORefresh L admin •
BMC Limmone information 12.42.66 Apr 30 2020 342829 CST © Host Online	NIC Inventory	d these - MC basedary
Quick Linia. *		Collapor All Expand All Expand All Expand All
4 Dashboard		0
Sensor	- On Board	
System Investory	 I350 Gigabit Network Connection 	
	= Port0	
O FRU Information	MAG:e0x85clec1axe7x8a	
Legs & Reports	- Porti	
O Settings	MAC:e0x85cle:1axe7.8b	
Remote Control		
G image Redirection		
O Power Control		
⊁ Haintenance		
🖶 Sign out		

2-4 FRU Information

FRU Information page displays the BMC's FRU device information. FRU page shows information like Basic Information, Chassis Information, Board Information and Product Information of the FRU device.

To open the FRU Information page, click **FRU Information** from the menu bar. Select a FRU Device ID from the FRU Information section to view the details of the selected device. A screenshot of FRU Information page is shown below.

	2000-01-05 09:48:33 (UTC+00:00 UTC)			🕿 🗚 🌼 sy	nc 🙄 Refresh 💄 admin 🕻
EMC: Firmware Information 2.78.0 Feb 20 2019 19:31:34 CST Host Offline	FRU Field Replacable Units				₩ Home > FRU
Quick Links 💌	Available FRU Devices				
# Dashboard	FRU Device ID 0 •				
📾 Sensor	FRU Device Name BMC_FRU				
System Inventory >					
FRU Information	Chassis Information	Board Information		Product Information	
Logs & Reports	Chassis Information Area 1 Format Version	Board Information Area Format 1 Version		Product Information Area Format Version	1
	Chassis Type Main Server Chassis	Language 0		Language	0
C Remote Control	Chassis Part Number 01234567	Manufacture Date Time Fri	Jan 7 00:00:00	Product Manufacturer	GIGABYTE
Image Redirection	Chassis Serial Number 01234567890123456789AB	20 Reard Manufactures Ch	CARVEE	Product Name	MZ52-G40-00
O Power Control	Chassis Extra	Board Product Name M	540-00	Product Part Number	00000000001
🗲 Maintenance		Board Serial Number S1	895700015	Product Version	0100
🕒 Sign out		Board Part Number 12	3456789AB	Product Serial Number	01234567890123456789AB
		FRU FILe ID		Asset Tag	01234567890123456789AB
		Board Extra NU	/LL	FRU File ID	
				Product Extra	

The following fields are displayed here for the selected device:

Available FRU Devices

- FRU device ID Select the device ID from the drop down list
- FRU Device Name The device name of the selected FRU device.

Chassis Information

- Chassis Information Area Format Version
- Chassis Type
- Chassis Part Number
- Chassis Serial Number
- Chassis Extra

Board Information

- Board Information Area Format Version
- Language
- Manufacture Date Time
- Board Manufacturer
- Board Product Name
- Board Serial Number
- Board Part Number
- FRU File ID
- Board Extra

Product Information

- Board Information Area Format Version
- Language
- Manufacture Date Time
- Board Manufacturer
- Board Product Name
- Board Serial Number
- Board Part Number
- FRU File ID
- Board Extra

2-5 Logs & Reports

The Logs & Reports page displays the following information:

- IPMI Event Log
- System Log
- Audit Log
- Video Log

A screenshot displaying the menu items under Logs & Reports is shown below.



A detailed description of Logs & Reports is given below.

2-5-1 IPMI Event Log

This page displays the list of event logs occurred by the different sensors on this device. Double click on a record to see the details of that entry. You can use the sensor type or sensor name filter options to view those specific events or you can also sort the list of entries by clicking on any of the column headers.

To open the Event Log page, click Logs & Reports > IPMI Event Log from the menu bar. A sample screenshot of Event Log page is shown below.



The Event Log page consists of the following fields:

Filter By Date: Filtering can be done by selecting Start Date and End Date.

Filter By Type: The category could be either All Events, System Event Records, OEM Event Records, BIOS Generated Events, SMI Handler Events, System Management Software Events, System Software - OEM Events, Remote Console software Events, Terminal Mode Remote Console software Events.



Note:Once the Filter By Date and Filter type are selected, the list of events will be displayed with the Event ID, Time Stamp, Sensor Type, Sensor Name and Description.

Event Log Statistics: Displays the statistical graph for the selected date.

Clear Event Logs: To delete all the event logs.

Download Event Logs: To download the event logs.

Procedure

- 1. From the Filter By Date field, select the time period by **Start Date** and **End Date** using Calendar for the event categories.
- 2. From the **Filter By Type** field, select the **Type** of the event and **Sensor** name to view the events for the date. The events will be displayed based on the selected time period.
- 3. To clear all events from the list, click Clear All Event Logs.
- 4. To download the event logs, click **Download Event Logs**.

2-5-2 System Log

System Log page will display all the system events occurred in this device that has been already configured.

A sample screenshot of System Log page is shown below.



ſ	Ρ
l	

Note: FLogs have to be configured under Settings -> Log Settings in order to display any entries.

Procedure

To view **System Log**, click the System Log tab to view all system events. Entries can be filtered based on **Filter By Date (Start Date and End Date)** and Event Category like Alert, Critical, Error, Notification, Warning, Debug, Emergency and Information.

Download Event Logs: To download the event logs.

2-5-3 Audit Log

Audit Log page will display all the system events occurred in this device that has been already configured.



Note: Logs have to be configured under Settings -> Log Settings > Advanced Log Settings in order to display any entries.

To open the Event Log page, click **Logs & Reports > Audit Log** from the menu bar. A sample screenshot of Video Log page is shown below:

	© 3000-01-01 07:59:02 (UTCH02:00 0HT)	S A US-English • OSync CRafrash 1 admin •
BHC Limmann Information 12.42.65 Apr 38 2009 16:28:29 CST I Host Online	Audit Log At audit logs	if how $>$ Aufting
Qaick Units.		0
# Dashboard	Filter by Date 1020-01-010000 (0) - 2000-01-01-02-00 (0) Rate 1 -	
🚳 Sernor		
System Inventory		
FRU Information	Event Log: 7 (0 - 7)	▲Download Legs
LalL Logs & Reports *	January 2000	
 IPHIEventLog Surtain Log 	10: 7 2000-01-01 07:50:00 (UTC+00:00 GMT) AMIE0D55E1AE790 login(4323): login 4323 - (4323 : 4323 WARNING SERIAL session tin	neout from IP:127.0.0.1 user:sysadmin -
 AuditLog VideoLog 	10: 6 2020-01-01 07:40:50 (UTC+00:00 GMT) AMIE0D5SE3AE790 spx_restservice: spx_restservice (3324:3324 INFO)https Login	from IP:10.1.7.88 user-admin -
Settings	DI: 5 2000-01-01 07:40:03 (UTC-00:00 GMT) AMIE0D55E1AE790 login[4323]; login 4323 - [4323 : 4323 INFO]SERIAL Login from IP:1	27.0.0.1 userzysadmin -
E Remote Control	DI: + 2000-01-01 07:39:47 (UTC-00:00 GMT) AMIE0DISSE1AE790 login(4323); login 4323 - [4323 : 4323 WARNING SERIAL Login Faile	ed from IP:127.0.0.1 user:sys -
Ei Image Rodirection	D: 3 2000-01-01 07:38:31 (UTC+00:00 GMT) AMIE0D55E1AE790 login[3475; login 3475 - [3475 : 3475 WARNING[SERIAL Login Faile	ed from IP:127.0.0.1 usersst -
O Power Control	ID-2 2000-01-01 07-19-15 ///// 02-20 GMT AMIG0/055E146720 Invite/3475F Invite 3475 - 3475 WADMING/SEDMI I veter Guide	ad from IP127.0.0.1 unarrets -
	A service of a current for crossed on the service service of the fight of the factor and antimuted service for the service service of the service service of the service service of the service servic	
😝 Sign out	ID: 1 2000-01-01 07:37:58 (UTC+00:00 GMT) AMIE0D55E1AE790 login(3475): login 3475 - [3475 : 3475 WARNING[SERIAL Login Faile	ed from IP:127.0.0.1 user:sysadmin -
	0	

Procedure

To view Audit Log, click the Audit Log tab to view all audit events for this device.

Download Event Logs: To download the event logs.

2-5-4 Video Log

To open the Video Log page, click Logs & Reports > Video Log from the menu bar. A sample screenshot of Video Log page is shown below.

Note: Video Trigger Settings should be enabled, to display the Video Log page. Video Trigger Settings can be configured under Settings -> Video Recording ->Auto Video Settings -> Video Trigger Settings.

A sample screenshot of Video Log page is shown below.



Click on the Video Log entry to view the Video. A sample screenshot of Video Log - Video page is shown below.





Note: Video will be allowed to play/download only if file size is lesser than 40MB. Browsers have various memory restrictions, due to this browser cannot store and process data greater than 40MB (approximately). If file size is greater than 40MB, user will be notified with a message to use Java player Application.

2-6 Settings

This group of pages allows you to access various configuration settings. A screenshot of Configuration Group menu is shown below.

	O 2000-01-01 08/01/25 (UTC+00.00 GMT)		Z A	z5-triglish v ♦ Sync 🖸 Refresh 💄 admin •
BMC Firmware Information 12.43.66 Apr 30 2020 16:38:29 CST U Host Online	Settings Configure BMC options			₩ Hone - Settings
QuickLinka. •	Captured 8500	Date & Time	External User Services	C KVIN House Setting
 Sensor System inventory 			A	
FRU Information Latt Logs & Reports	μ <u>Ξ</u>	T	¢ \$	
• Settings	PAN Order Settings	Platform Event Filter	Services	SMTP Settings
Remote Control	# 53.5407mg	System Firewall	Liser Nanaement	Wideo Recording
Power Control		A		
	Fan Profile	Power Consumption		
te sign out				

A detailed description of the Settings menu is given below.

2-6-1 Captured BSOD

This page displays a snapshot of the blue screen captured if the host system crashed since last reboot. A screenshot of Captured BSOD is shown below.





Note:KVM service should be enabled to display the BSOD screen. KVM Service can be configured under **Settings->Services->KVM**.

2-6-2 Date & Time

This field is used to set the date and time on the BMC. A Sample screenshot of Date & Time is shown below.



The Date & Time section consists of the following fields:

Configure Date & Time: Displays Time zone list containing the UTC offset along with the locations and Navigational line to select the location which can be used to display the exact local time.

Primary NTP Server: To configure a primary NTP server to use when automatically setting the date and time.

Secondary NTP Server: To configure a secondary NTP server to use when automatically setting the date and time.

Automatic Date & Time: To automatically synchronize Date and Time with the NTP Server. Save: To save the configured settings.

Procedure

- 1. Select the Time zone location from the map.
- In the Primary NTP Server / Secondary NTP Server field, specify the NTP server for the device.



Note: Secondary NTP server is optional field. If the Primary NTP server is not working fine, then the Secondary NTP Server will be used.

- 3. Enable Automatic Date & Time option.
- 4. Click Save button to save the settings.

2-6-3 External User Services

LDAP/E-Directory Settings

The Lightweight Directory Access Protocol (LDAP)/E-Directory Settings is an application protocol for querying and modifying data of directory services implemented in Internet Protocol (IP) networks.

In Web GUI, LDAP is an Internet protocol that BMC can use to authenticate users. If you have an LDAP server configured on your network, you can use it as an easy way to add, manage and authenticate BMC users. This is done by passing login requests to your LDAP Server. This means that there is no need to define an additional authentication mechanism, when using the BMC. Since your existing LDAP Server keeps an authentication centralized, you will always know who is accessing the network resources and can easily define the user or group- based policies to control access.

To open External User Services page, click **Settings > External User Services** from the menu bar. A sample screenshot of External User Services page is shown below.

	O 2019-04-08 12:57:37 (UTC+00:00 UTC)			🛎 🔺 🍳 Sync 😂 Refresh 💄 admin 🗸
BMC: Firmware: Information 2.76.109227 Jan 28 2019 10:44:94 (ST Not Online	External User Services			${\boldsymbol{\mathfrak{G}}}$ Home \times Settings \times External User Services
Quick Links	LDAP/E-Directory Settings	Active Directory Settings	RADIUS Settings	
📾 Sensor				
System Inventory				
FRU Information				
냄 Logs & Reports ›				
Settings				
Remote Control				
G Image Redirection				
O Power Control				
🗲 Maintenance				
😝 Sign out				

To open LDAP/E-DIRECTORY Settings page, click Settings > External User Services > LDAP/E-Directory Settings from the menu bar.

A sample screenshot of External User Services page is shown below.

	O 2019-04-08 01:31:14 (UTC-11:30 UTC)			N	▲ OSync	C Refresh	1 admin +
BMC Firmware Information 2.76.109227 Jan 28 2019 10:44:94 CST Worl Online	LDAP/E-Directory Settings		*	Home > Settings >	External User Setti	ngs ≻ LDAP/E-Dire	ctory Settings
Quick Links							
# Dashboard	General Settings	Role Groups					
📾 Sensor							
System Inventory							
FRU Information							
네 Logs & Reports 🔹 💙							
Settings							
Remote Control							
Image Redirection							
O Power Control							
🕪 Sign out							

The fields of LDAP/E-Directory Settings page are explained below.

General Settings: To configure LDAP/E-Directory Settings. Options are Enable LDAP/E-Directory Authentication, IP Address, Port and Search base.

Role Groups: To add a new role group to the device. Alternatively, double click on a free slot to add a role group.

Procedure

1. In the LDAP/E-Directory Settings page, click General Settings. A sample screenshot of General LDAP Settings page is given below.

BMC Firmware information 12.42.05 Apr 30 2020 16:38:29 CST	General LDAP Settings
Host Online	Θ
Quick Links 🔻	Enable LDAP/E-Directory Authentication
A Dashboard	Encryption Type
🚯 Sensor	No Encryption SSL StartTLS
6 Sectors Investors	Common Name Type
• System Inventory	VIP Address FQDN
FRU Information	Server Address
Logs&Reports →	
Settings	Port
Remote Control	389
O large Definition	Bind DN
En Image Redirection	E.g., cn=admin,ou=login,dc=domain,dc=com
O Power Control	Password
🗲 Maintenance	Whitespace not allowed
🕩 Sign out	Search Base
	E.g., ou=login,dc=domain,dc=com
	Attribute of User Login
	cn T
	CA certificate file
	s
	Certificate File
	b
	Private Key
	b
	El Save

- Click Enable LDAP/E-Directory Authentication, to enable LDAP/E-Directory Settings.
 Note: Configure proper port number, when SSL is enabled.
- 3. Select the Common Name Type as IP Address.
- 4. Enter the IP address of LDAP server in the Server Address field.



Note: IP Address made of 4 numbers separated by dots as in 'xxx.xxx.xxx'. Each Number ranges from 0 to 255.

First Number must not be 0. Supports IPv4 Address format and IPv6 Address format. Configure FQDN address, when using StartTLS with FQDN.

5. Specify the LDAP Port in the **Port** field.



Note: Default Port is 389. For SSL connections, default port is 636. The Port value ranges from 1 to 65535.

6. Specify the Bind DN that is used during bind operation, which authenticates the client to the server.



Note: Bind DN is a string of 4 to 64 alpha-numeric characters. It must start with an alphabetical character. Special Symbols like dot(.), comma(,), hyphen(-), underscore(_), equal-to(=) are allowed. Example: cn=manager, ou=login, dc=domain, dc=com

7. Enter the password in the **Password** field.



Note: Password must be at least 1 character long. Blank space is not allowed This field will not allow more than 48 characters.

 Enter the Search Base. The Search base allows the LDAP server to find which part of the external directory tree to be searched. The search base may be something equivalent to the organization, group of external directory.



Note: Search base is a string of 4 to 63 alpha-numeric characters. It must start with an alphabetical character. Special Symbols like dot(.), comma(.), hyphen(-), underscore(_), equal-to(=) are allowed. Example: ou-login, dc-domain, dc-com

Select Attribute of User Login to find the LDAP/E-Directory server which attribute should be used to identify the user.



Note: It only supports cn or uid.

- 10. Select **CA Certificate File** from the Browse field to identify the certificate of the trusted CA certs.
- 11. Select the CA Certificate File to find the client certificate filename.
- 12. Select Private Key to find the client private key filename.



Note: All the 3 files are required, when StartTLS is enabled.

13. Click Save to save the settings.

To add a new Role Group

- 1. In the LDAP/E-Directory Settings page, click Role Groups and select a blank row.
- 2. Click **Add Role Group** or alternatively double click on the blank row to open the Add Role group page as shown in the screenshot below.

MEGARAC SP-X	=		🛦 Oon Ottefresh 🏦 admin 🗸
Host Offline	Role Groups	iff Home - Settings - EdemolitizerSettings -	LDAPIT-directory Settings > Role Groups > Role Groups
Quick Links.			
# Dashboard	0		
di Settor	Group Name		
O System Inventory			
• FRU Information	Group Domain		
🕍 Lags & Reports 🔹	eg, do-doman		
© Settings	User		
Remote Control	Delete El Save		
El Image Redirection			
O Power Control			
🗲 Maintenance			
I♦ Sign out			

3. In the Group Name field, enter the name that identifies the role group.



Note: Role Group Name is a string of 255 alpha-numeric characters. Special symbols hyphen and underscore are allowed.

4. In the Group Domain field. Enter the Role Group Domain where the role group is located.



Note: Domain Name is a string of 4 to 64 alpha-numeric characters. It must start with an alphabetical character. Special Symbols like dot(.), comma(,), hyphen(-), underscore(_), equal-to(=) are allowed. Example: cn=manager, ou=login, dc=domain, dc=com

5. In the Group Privilege field, enter the level of privilege (User, Administrator, Operator, None) to assign to this role group.

- 6. Select one or both of the required options
 - KVM Access
 - VMedia Access
 - •
- 7. Click Save to save the new role group and return to the Role Group List.

Active Directory Settings

An active directory is a directory structure used on Microsoft Windows based computers and servers to store information and data about networks and domains. An active directory (sometimes referred to as AD) does a variety of functions including the ability to provide information on objects. It also helps to organize these objects for easy retrieval and access, allows access by end users and administrators and allows the administrator to set security up for the directory.

Active Directory allows you to configure the Active Directory Server Settings. The displayed table shows any configured Role Groups and the available slots. You can modify, add or delete role groups from here. Group domain can be the AD domain or a trusted domain. Group Name should correspond to the name of an actual AD group.

Note: To view the page, you must be at least a User and to modify or add a group, you must be an Administrator.

To open Active Directory Settings page, click **Settings > External User Settings > Active Directory** from the menu bar. A sample screenshot of Active Directory Settings page is shown below.

	@ 2019-04-07 18:51:26 (UTC-11:30 UTC)		Z A	Sync	C Refresh	💄 admin 🗸
IMC: Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Active directory Settings		₩ Home > Settings > E	dernal User Settin	gs > Active direc	tory Settings
Quick Links *	General Settings	Role Groups				
🚳 Sensor						
System Inventory						
FRU Information						
Logs & Reports >						
Settings						
Remote Control						
Image Redirection						
C Power Control						
🗲 Maintenance						
🕞 Sign out						

The fields of Active Directory page are explained below.

General Settings: This option is used to configure Active Directory General Settings. Options are Enable Active Directory Authentication, Secret User Name, Secret Password, User Domain name, and up to three Domain Controller Server Addresses.

Role Groups: To add a new role group to the device. Alternatively, double click on a free slot to add a role group.

Procedure

Entering the details in General Active Directory Settings page:

1. Click on General Settings to open the General Active Directory Settings page.

	© 2019-04-07 18:55:41 (UTC-11:30 UTC)	🕿 🛕 🔍 Sync 🛛 Refresh 💄 admin 🗸
IMMC Firmware Information 2.76.103227 Jan 28 2019 10:04:04 (ST Inter Online	General Active Directory Settings	$\label{eq:constraint} \mbox{\it Home} ~ \mbox{Settings} ~ \mbox{Extenses} ~ \mbox{\it Active directory Settings} ~ \mbox{\it General Active Directory Settings} $
Quick Links *	0	
# Dashboard	Enable Active Directory Authentication	
📾 Sensor	Secret Username	
System Inventory		
FRU Information	Secret Password	
네 Logs & Reports >	User Domain Name	
Settings		
Remote Control	Domain Controller Server Address 1	
Image Redirection		
O Power Control	Domain Controller Server Address 2	
F Maintenance	Domain Controller Server Address 3	
🕒 Sign out		
	🛱 Save	

2. In the Active Directory Settings page, check or uncheck the **Enable Active directory Authentication** check box to enable or disable **Active Directory Authentication** respectively.



Note: If you have enabled. Active Directory Authentication, enter the required information to access the Active Directory server.

3. Specify the Secret user name and password in the Secret User Name and Secret Password fields respectively.



Note: Secret username/password for AD is not mandatory. When secret username & password is empty, Authentication fails will be always treated as Invalid Password error.

For Invalid Password error PAM will not try other Authentication Methods. So it is recommended to keep AD in the last location in PAM order.

User Name is a string of 1 to 64 alpha-numeric characters.

It must start with an alphabetical character.

It is case-sensitive.

Special characters like comma, period, colon, semicolon, slash, backslash, square brackets,

Blank space is not allowed, angle brackets, pipe, equal, plus, asterisk, question mark, ampersand, double quotes, space are not allowed.

Password must be at least 6 character long and will not allow more than 127 characters.

- 4. Specify the Domain Name for the user in the User Domain Name field. E.g. MyDomain. com
- 5. Configure IP addresses in Domain Controller Server Address1, Domain Controller Server Address2 and Domain Controller Server Address3



Note: IP address of Active Directory server: At least one Domain Controller Server Address must be configured. IP Address made of 4 numbers separated by dots as in "xxx.xxx.xxx.xxx".

Each number ranges from 0 to 255.

First number must not be 0.

Domain Controller Server Addresses will supports IPv4 Address format and IPv6 Address format.

6. Click Save to save the entered settings and return to Active Directory Settings page.
Role Groups

To open Role Group page, click **Settings > External User Settings > Active Directory > Role Groups** from the menu bar. A sample screenshot of Role Groups page is shown below.

	O 2019-04-07 19:01:00 (UTC-11:30 UTC)			🛎 🛕 Osync 📿 Refresh 💄 admin →
UMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Heat Online	Role Groups		₩ Home > Settings > Extern	al User Settings > Active directory Settings > Role Groups
Quick Links. * A Dashboard & Sensor	None	None	None	None
System Inventory System Inventory FRU Information Lett Logs & Reports Settings	None			
Remote Control Image Redirection				
Power Control				
Annerano,				

The fields of Role Group page are explained below.

Role Group Name: The name that identifies the role group in the Active Directory.



Note: Role Group Name is a string of 64 alpha-numeric characters. Special symbols hyphen and underscore are allowed.

Group Name: This name identifies the role group in Active Directory.



Note: Role Group Name is a string of 64 alpha-numeric characters.

Special symbols hyphen and underscore are allowed.

Group Domain: The domain where the role group is located.



Note: Domain Name is a string of 255 alpha-numeric characters.

Special symbols hyphen, underscore and dot are allowed.

Group Privilege: The level of privilege to assign to this role group. KVM Access: To provide access to KVM for AD authenticated role group user. VMedia Access: To provide access to VMedia for AD authenticated role group user.

To add a new Role Group

 In the Active Directory Settings page, select a Role Group and click Add Role Group or alternatively double click on the blank row to open the Add Role group page as shown in the screenshot below.

MEGARAC SP-X	=
@ Host Offline	Role Groups
Quick Links.	
# Dashboard	0
🚯 Sensor	Group Name
O System Inventory	
FRU Information	Group Demain eg., do-domain
ML Logs & Reports	Group Privilege
Ø Settings	User
Remote Control	Delete 25 Save
El Image Redirection	
O Power Control	
⊁ Maintenance	
It Sign out	

2. In the **Group Name** field, enter the name that identifies the role group in the Active Directory.



Note: Role Group Name is a string of 64 alpha-numeric characters.

Special symbols hyphen and underscore are allowed.

3. In the Group Domain field, enter the domain where the role group is located.



Note: Domain Name is a string of 255 alpha-numeric characters. - Special symbols hyphen, underscore and dot are allowed.

4. In the Group Privilege field, enter the level of privilege to assign to this role group.

- 5. Select the required options
 - KVM Access
 - VMedia Access
- 6. Click Save to add the new role group and return to the Role Group List.

To Delete a Role Group

- 1. In the Role Groups Page, select the row that you wish to delete
- 2. Click Delete Role Group.

RADIUS Settings

RADIUS is a modular, high performance and feature-rich RADIUS suite including server, clients, development libraries and numerous additional RADIUS related utilities.

In Web GUI, this page is used to set the RADIUS Authentication.

To open RADIUS Settings page, click **Settings > External User Settings > RADIUS Settings** from the menu bar. A sample screenshot of RADIUS Settings page is shown below.

	➡ ⊙ 2019-04-07 19:06:48 (UTC-11:30 UTC)	🗷 🗚 O Sync 😋 Refresh 🏦 admin -
BHC Firmware Information 2.76.109227 Jan 28 2019 10:44:64 CST Host Online	RADIUS Settings	# Home > Settings > External User Settings > RADOUS Settings
Quick Links	C 08	
B Sensor	General RADIUS Settings Advanced RADIUS Settings	
System Inventory FRU Information		
네 Logs & Reports >		
Settings		
Remote Control		
A Image Redirection		
O Power Control		
✗ Maintenance		
🚱 Sign out		

The fields of General RADIUS Settings page are explained below. Enable RADIUS Authentication: Option to enable/disable RADIUS authentication. Server Address: The IP address of RADIUS server.

R

Note: IP Address (Both IPv4 and IPv6 format).

FQDN (Fully Qualified Domain Name) format.

Port: The RADIUS Port number.



Note: Default Port is 1812.

Port value ranges from 1 to 65535.

Secret: The Authentication Secret for RADIUS server.



Note: This field will not allow more than 31 characters.

Secret must be at least 4 characters long.

Blank space is not allowed.

Enable KVM Access: This field provides access to KVM for RADIUS authenticated users.

Enable VMedia Access: This field provides access to VMedia for RADIUS authenticated users. **Save**: To save the configured settings.

Procedure

- 1. Enable the **RADIUS Authentication** check box to authenticate the RADIUS.
- 2. Click **Advanced RADIUS Settings.** This opens the Radius Authorization window as shown below.

INC. Dominance Information Introduction Conclusion Co		2019-04-07 19:09:09 (UTC-11:30 UTC)		≥ A ⁰	Sync	C Refresh	1
Cuck Linka. RADIUS Authorization Dashboad Administrator Bashboad Heid Sensor Deensor System Inventory Deensor FRU Information Heid User Heid Heid Heid Settings OttM Proprietary Remete Control Heid Image Reflerction No Access Power Control Heid	BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Advanced RADIUS Settings	♣ Home > Settings > External Us	ser Settings > 1	RADIUS Setting	s > Advanced R/	NDIUS Se
A Dashboard Administrator A Sensor He4 Sestor Deentor B KU Information User M Logs & Roports Me2 Sesting OEM Proprietary Ramete Control He1 I hage Refirection Ne Access M Intege Refirection He1 No Recess He1 P Newr Control Encode Y Maintenance Encode	Quick Links	RADIUS Authorization 🚱					
	# Dashboard	Administrator					
 System Inventory → FRU Information Logs & Reports → Setting: OEM Proprietary H=1 Image Redirection Ne Access H=0 Som Sign out 	n Sensor	H=4					
FRU Information He3 User Ha2 Settings OEM Proprietary Remote Control He3 No Access He3 No Access He3 No Access He3 No Access He3 Sign out	System Inventory	Operator					
Ware Mail Logis & Reports Statings Oth Proprietary Remote Control H=1 Image Refrection H=0 Prover Control Maintenance Sign out	FRU Information	H=3					
Setting: Setting: Remote Control Inage Redirection Inage Redirection Ne Access H=0 Ne Access H=0 Set		User					
Statings OCM Proprietary Remote Control H=1 Image Referection No Access H=0 H=0 > Maintenance Some	Logs & Reports /	H=2					
	Settings	OEM Proprietary					
Image Redirection No Access Power Control H=0 Maintenance El Save	🖵 Remote Control	H=1					
Power Control H=0 Maintenance It is save Sign out It is save	Image Redirection	No Access					
F Maintenance Bit Save % Sign out	O Power Control	H=0					
99 Sign out	& Maintenance	🖺 Save					
Ge Sign out							
	🗭 Sign out						

R

Note: For Authorization Purpose, configure the Radius user with Vendor Specific Attribute in Server side.

Example: 1

testadmin Auth-Type: =PAP, Cleartext-Password:="admin" Auth-Type: =PAP, Vendor-Specific= "H=4 " **Example: 2** test operator Auth-Type: = PAP, Cleartext-Password:= "operator" Auth-Type: =PAP, Vendor-Specific= "H=3 " If you change the Vendor-Specific value in server then you should change the same values in this page.

3. Click **Save** to save the changes made.

2-6-4 KVM Mouse Settings

In MegaRAC GUI, Redirection Console handles mouse emulation from local window to remote screen in either of three methods. User has to be an Administrator to configure this option. To view the Supported Operating Systems for Mouse Mode, click Mouse Mode.

To open KVM Mouse setting page, click **Settings >KVM Mouse Setting** from the menu bar. A sample screenshot of KVM Mouse Settings page is shown below.



The fields of KVM Mouse Settings page are explained below.

Relative Positioning (Linux): Relative mode sends the calculated relative mouse position displacement to the server.

Absolute Positioning (Windows): The absolute position of the local mouse is sent to the server. Other Mode (SLES-11 OS Installation): To have the calculated displacement from the local mouse in the center position sent to the server.

Save: To save the current changes.

Procedure

- 1. Choose either of the following as your requirement:
 - Set mode to Absolute



- Note: Applicable for all Windows versions, versions above RHEL6, and versions above FC14
- Set mode to Relative

.

 $\ensuremath{\textbf{Note}}$: Applicable for all Linux versions, versions less than RHEL6, and versions less than FC14

Mode to Other Mode

Note: Recommended for SLES-11 OS Installation

2. Click **Save** button to save the changes made.

2-6-5 Log Settings

In MegaRAC GUI, System and Audit log page displays a list of system logs and audit logs occurred in this device.

To open Log Settings page, click **Settings > Log Settings** from the menu bar. A sample screenshot of Log Settings page is shown below.



The fields of Log Settings page are explained below.

SEL Settings Policy

To open SEL Settings Policy page, click **Settings > Log Settings > SEL Settings Policy** from the menu bar. A sample screenshot of SEL Settings Policy page is shown below.

	O 2000-01-01 00:09:54 (UTC+00:00 GMT)	
BMC Firmware information 12.02.230013 Feb 11 2020 13:300:27 CST 0 Head Office	SEL Log Settings Policy	
Quick Links		0
# Dashboard	Log Policy Linear Storage Policy 🥑 Circular Storage Policy	
System Inventory		🖺 Save
FRU Information		
Legs & Reports		
Settings		
Remote Control		
El Image Redirection		
O Power Control		
₽ Maintenance		
😝 Sign out		

Advanced Log Settings

To open Advanced Log Settings page, click **Settings > Log Settings > Advanced Log Settings** from the menu bar. A sample screenshot of Advanced Log Settings Policy page is shown below.

	2019-04-07 19:17:44 (UTC-11:30 UTC)
BNC Firmware Information 2.76.163337 Jan 29 2019 10:4434 CST Host Online	Advanced Log Settings
Quick Links	0
🕫 Dashboard	System Log
🚯 Sensor	Local Log
System Inventory	Uccallog Hemotellog
FRU Information	5000
🕍 Logs & Reports 🔷 👌	Rotate Count
• Settings	0
🖵 Remote Control	Remote Log Server
A Image Redirection	Server IP or Hostname
O Power Control	Remote Server Port
🖌 Maintenance	Fnable Audit for
😉 Sign out	-
	E Save

This page is used to configure the log policy for the event log. The fields are as follows. **Enable System Log**: This field is to enable or disable the System Logs.

Location: Specifies the Location for system logs, whether it should be preserved in a Local Log or on a Remote Log.



Note: Local file resides at /var/log/

File Size: This field is to specify the size of the file in bytes if the selected log type is local.



Note: Size ranges from 3 to 65535. Log files are rotated when they grow bigger than size bytes mentioned, with regards for the last rotation time interval (1 minute).

Rotate Count: To back up the log information in back up files.



Note: Values supported are 0 and 1.

When log information exceeds the file size, the old log information is automatically moved to back up files based on the rotate count value. If rotate count is zero, then old log information gets cleared permanently.

File Size and Rotate Count options will be available only when Local Log is enabled.

Remote Log Server: This field is to specify the Remote server address to log the system events.

Ę

Note: Server address will support the following:

IPv4 address format.

FQDN (Fully qualified domain name) format.

Remote Server Port: This field is to specify the Remote Server port address to log the system events.



Note: Remote Log Server and Remote Server Port options will be available only when Remote Log is enabled.

Enable Audit Log: To enable or disable the audit log. **Save**: To save the current changes.

Procedure

- 1. In the System Log field, enable or disable the option.
- 2. Select the Log type: Local Log or Remote Log.
- 3. If Local log is selected, enter the file size in the **File Size** field and rotate count in the **Rotate Count** field.



Note: If Remote log is selected, the fields file size and rotate count need not be mentioned.

- If remote log is selected specify the Server Address of the remote server, where the system events are logged.
- 5. In the Audit Log field, check or uncheck the Enable option as desired.
- 6. Click **Save** to save the changes.

Steps to configure the remote server to enable syslogging

Note: This example uses FC13 as the remote machine to log syslog.

On FC machine, disable the following lines for UDP in /etc/rsyslog.conf:

- 1. MODLOAD imudp
- 2. UDPSERVER 514

2-6-6 Media Redirection Settings

This page is used to configure the media into BMC for redirection. To open Media Redirection page, click **Settings > Media Redirection Settings** from the menu bar. A sample screenshot of Media Redirection page is shown below.



The fields of Media Redirection page are explained below.

- General Settings
- VMedia Instance Settings
- Remote Session
- Active Redirections

General Settings

This option is used to configure General Media Settings.

To open General Media Settings section, click **Settings > Media Redirection Settings** > General Settings.

	O 2019-04-07 19:20:49 (UTC-11:30 UTC)	2	🗚 🍳 Sync 🛛 Refresh 💄 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	General Settings	w∰ Home >	Settings > Media Redirection > General Settings
Quick Links •	0		
륨 Dashboard	Remote Media Support		
🚳 Sensor	Mount CD/DVD		
System Inventory	Mount Harddisk		
FRU Information	E Save		
Logs & Reports >			
Settings			
🖵 Remote Control			
Image Redirection			
O Power Control			
F Maintenance			
Sign out			

Remote Media Support: To enable or disable Remote Media support, check/uncheck the 'Enable' check box.

Mount CD/DVD: To enable or disable Mount CD/DVD support, check/uncheck the 'Enable' checkbox.



Note: You can also select all the media types simultaneously.

Server Address for CD/DVD Images: Displays the address of the server where the remote media images are stored.

Path in server: Displays the Source path to the remote media images.

Share Type for CD/DVD: Displays the Share Type of the remote media server either NFS or CIFS.

Domain Name, Username, and Password: If share Type is Samba(CIFS), then enter user credentials to authenticate on the server.

Save: Save all the configurations.

VMedia Instance Settings

This page is used to configure Virtual Media device settings. To open VMedia Instance Settings page, click **Settings > Media Redirection Settings > VMedia Instance Settings** from the menu bar.

A sample screenshot of VMedia Instance Settings page is shown below.

	© 2000-01-01 05:14:35 (UTC+00:00 GMT)
BMC Firmware Information 12.42.05 Apr 30 2020 16:38:29 CST Host Online	VMedia Instance Settings
Quick Links	Θ
📅 Dashboard	CD/DVD device instances
🚳 Sensor	1 v
System Inventory	Hard disk instances
FRU Information	1 Y Remote KVM CD/DVD device instances
🔟 Logs & Reports 💦 👌	1
Settings	Remote KVM Hard disk instances
🖵 Remote Control	1 *
Image Redirection	Power Save Mode
C Power Control	智 Save
🗲 Maintenance	
Sign out	

The following fields are displayed in this page:

CD/DVD device instances: The number of CD/DVD devices supported for Virtual Media redirection.

Harddisk instances: The number of harddisk devices supported for Virtual Media redirection.

Remote KVM CD/DVD device instances: The number of CD/DVD devices supported for KVM Virtual Media redirection.

Remote KVM Hard disk instances: The number of Hard disk devices supported for KVM Virtual Media redirection.

Emulate SD Media as USB disk to Host: To emulate SD Media on BMC as a USB device to Host Server.

Power Save Mode: To enable or disable the virtual USB devices visibility in the host. If this option is enabled, Virtual media devices will be connected to the Host machine only at the instance launching KVM session. If this option is disabled, Virtual media devices will remain connected to the host machine all the time irrespective of KVM session status.

Save: To save the configured settings.



Note: Virtual Media configuration changes will restart all the media services. So configuration changes will be blocked when any active media redirection is present.

Procedure

1. Select the number of Floppy devices, CD/DVD devices, Harddisk devices and Remote KVM Floppy, CD/DVD and Hard disk Devices from the respective drop-down list.



Note: Maximum of four devices can be added in Floppy, CD/DVD and Harddisk drives.

- Select the Emulate SD Media as USB disk to Host option to enable/disable the SD card support in the host.
- 3. Check the **Power Save Mode** option to enable/disable the Virtual USB devices visibility in the host.
- 4. Click **Save** to save the changes made else click Reset to reset the previously saved values.



Note: When KVM is launched from Standalone Application, if there are two device panels for each device, and when you click the Connect button, then the redirected device panel will be disabled.

Unmounting device will make the driver disconnect device when using **Auto Attach**. Hence, when unmounting one USB key, the other USB key will be disconnected and then reconnected.

Remote Session

In MegaRAC GUI, this page is used to configure Remote Session configuration settings. "KVM Single Port Application" is enabled by default. On disabling, "KVM Single Port Application", "Encrypt H5Viewer KVM packets" will be enabled by default. On enabling "KVM Single Port Application", "Encrypt H5Viewer KVM packets" will be disabled if it is enabled already.

To open Remote Session page, click **Settings > Media Redirection Settings > Remote Session** from the menu bar.

A sample screenshot of Remote Session page is shown below.

BMC Firmware Information 12.42.05 Apr 30 2020 16:38:29 CST Host Online	Remote Session
Quick Links 🔻	0
希 Dashboard	KVM Single Port Application
🍘 Sensor	Enable KVM Encryption
System Inventory	Keyboard Language
FRU Information	Auto Detect (AD)
└── Logs & Reports	Retry Count
Settings	3
🖵 Remote Control	Retry Time Interval(Seconds) 10
Image Redirection	Server Monitor OFF Feature Status
O Power Control	Automatically OFF Server Monitor, When KVM Launches
🗲 Maintenance	E Save
🕒 Sign out	

The fields of Configure Remote Session page are explained below.

KVM Single Port Application: To Enable/Disable single port support by runtime. On changing this configuration, KVM and VMedia Sessions will be restarted. If this support is enabled, KVM session will not use its dedicated port whereas both Web and KVM sessions will be established only via Web Port. If this support is disabled, KVM and Web sessions will use their own dedicated ports respectively.

Keyboard Language: This option is used to select the keyboard supported languages.

Retry Count: This option is used to retry the redirection session for certain number of attempts.

Retry Time Interval (Seconds): This option is used to give time interval for each attempts.

Server Monitor OFF Feature Status: To enable/disable Server Monitor OFF. If this option is enabled, you can Lock or Unlock the Local host monitor from the remote KVM window. If this option is disabled, you cannot Lock or Unlock the Local host monitor from the remote KVM

window.

Automatically OFF Server Monitor, When KVM Launches: To enable/disable Automatically OFF Server Monitor, When KVM Launches.

Save: To save the current changes.



Note: It will automatically close the existing remote redirection either KVM or Virtual media sessions on Single Port enable/Disable.



Note: Installation of Operating System on the servers via BMC CD ISO image over remote KVM may take 1 to 2 hours.

Procedure

- 1. Check or uncheck the **KVM Single Port Application** option to enable Single Port Application support in BMC.
- 2. Choose the Keyboard Language from the list of keyboard supported languages.
- 3. Enter a value in the **Retry Count** field to set the number of attempts for retrying the redirection session.
- 4. Enter a value in the **Retry Time Interval (Seconds)** field to give time interval for each attempts.
- Check the Server Monitor OFF Feature Status check box to enable Local Monitor ON/ OFF command during runtime.
- 6. Check the **Automatically OFF Server Monitor**, **When KVM Launches** check box to automatically Lock the local monitor during H5Viewer launch.
- 7. Click Save to save the current changes.

Active Redirections

This page is used to display the active redirected media, which are redirected via JViewer/ VMAPP/ H5Viewer/LMedia/RMedia/VMCLI. Information like Media type, Media Instance, Client Type, Image Name, Redirection status, Client IP will be displayed. To open Active Redirections page, click **Settings > Media Redirection Settings > Active Redirections** from the menu bar.

MEGARAC SP-X	=				= 4	Sync DRefresh	1 admin -
Host Online	Active Redire	ections			if Hote -	Settings - Media Redirection -	Active Bedirections
Quick Links, *							0
Dashboard	Media Type &	Hedia Instance Ø	Client Type \$	Image Name Ø	Redirection Status Ø	Client IP 0	
System Inventory	CD/DVD	0	RNedia	DiscSpeed no	Started	-	
FitU Information	CD/DVD	1	VМарр	javatools.iso	Started	30.0.124.122	
ial top-5 Reports >	Hard disk	0	WMapp	US8_32mbJmg	Started	39.0.124.122	
O Settings							
🖵 Remote Control							
G Image Redirection							

A sample screenshot of Active Redirections Page is shown below.

The following fields are displayed in this page.

Media Type: The type Media devices (CD/DVD) supported for Active Redirections. Media instances: The number of Media devices supported for Active Redirections. Client Type: The type Media devices (CD/DVD) supported for Active Redirections. Image Name: The name of Media devices supported image for Active Redirections. Redirection Status: The status Media for Active Redirections. Client IP: The IP of the connected Media devices (CD/DVD) supported for Active Redirections.



Note: Local/Remote Media connection will use loopback socket for communication. So symbol will be displayed for loopback ip(127.0.0.1 (or) ::1) in media session information page.

2-6-7 Network Settings

The Network Settings page is used to configure the network settings for the available LAN channels. It also allows users to manage the DNS settings or configure Network Controller Sideband Interface of a device. To open the Network Settings page, click **Settings > Network Settings** from the menu bar.



Network IP Settings

To open Network IP Settings page, click **Settings > Network Settings > Network IP Settings** from the menu bar. A sample screenshot of Network IP Settings page is shown below.

	G 2019-04-07 19:27:18 (UTC-11:30 UTC)	🛚 🖌 O Sync 🛛 Refresh 💄
BHC Firmware Information 2.76.103277 Jan 28 2019 18044304 CST © Heat Online	Network IP Settings	# Mome - Settings - Network - Network IP S
uick Links •	0	
Dashboard	Carable LAN	
Sensor	LAN Interface	
System Inventory	bond0 *	
(PII) Information	MAC Address	
	E0:05:5E:C5:30:C2	
Logi & Heports	-	
Settings	Cable IPv4	
Remote Control	Enable IPv4 DHCP	
Image Redirection	IPu4 Address	
Power Control	10.1.112.123	
Maintenance	IPv4 Subnet	
Sign out	D. J. Colorest	
	10.1.112.283	
	Enable IPv6	
	Enable IPv6 DHCP	
	IPv6 Index	
	•	
	IPv6 Address	
	2001xdb8:1234:5678xe2d5:5efffec5:9dc2	
	Subnet Prefix Length	
	64	
	- Contraction	
	Enable VLAN	
	VLAN ID	

The fields of Network IP Settings page are explained below.

Enable LAN: To enable or disable the LAN Settings.

LAN Interface: Lists the LAN interfaces.

MAC Address: This field displays the MAC Address of the device. This is a read only field. **Enable IPv4**: This option is to enable/disable the IPv4 settings in the device.

Enable IPv4 DHCP: This option is to enable IPv4 DHCP support for the selected interface.

IPv4 Address, IPv4 Subnet Mask, and IPv4 Default Gateway: These fields are for specifying the static IPv4 address, Subnet Mask and Default Gateway to be configured to the device.



Note: IP Address made of 4 numbers separated by dots as in "xxx.xxx.xxx.xxx".

Each Number ranges from 0 to 255.

First Number must not be 0.

Enable IPv6: To Enable/Disable the IPv6 configuration settings.

Enable IPv6 DHCP: To Enable/Disable the IPv6 settings in the device. It dynamically configures IPv6 address using DHCP (Dynamic Host Configuration Protocol).

IPv6 Index: To specify a static IPv6 Index to be configured to the device. E.g.: 0

IPv6 Address: To specify a static IPv6 address to be configured to the device. E.g.: 2004::2010 **Subnet Prefix length**: To specify the subnet prefix length for the IPv6 settings.



Note: Value ranges from 0 to 128.

Default Gateway: Specify v6 default gateway for the IPv6 settings.

Note: If core feature IPV6_COMPLIANCE is enabled, the IPV6 default Gateway field will not be displayed.

Enable VLAN: To enable/disable the VLAN support for selected interface.

VLAN ID: The Identification for VLAN configuration.



Note: Value ranges from 2 to 4094.

VLAN Priority: The priority for VLAN configuration.



Note: Note: Value ranges from 0 to 7.

7 is the highest priority for VLAN.

Save: To save the entries.

Procedure

- 1. Check Enable LAN to enable LAN support for the selected interface.
- 2. Select the LAN Interface to be configured.
- 3. Check Enable IPv4 to enable IPv4 support for the selected interface.
- 4. Check Enable IPv4 DHCP to dynamically configure IPv4 address using DHCP.
- 5. If the field is disabled, enter the IPv4 Address, IPv4 Subnet Mask and IPv4 Default Gateway in the respective fields.
- 6. In IPv6 Configuration, if you wish to enable the IPv6 settings, check Enable IPv6.
- 7. If the IPv6 setting is enabled, enable or disable the option Enable IPv6 DHCP.
- 8. If the field is disabled, enter the IPv6 Address, Subnet Prefix length and IPv6 Index in the given field.
- 9. In VLAN Configuration, if you wish to enable the VLAN settings, check Enable LAN.
- 10. Enter the VLAN ID in the specified field.
- 11. 11. Enter the VLAN Priority in the specified field.
- 12. Click **Save** to save the entries.

DNS Configuration

The **Domain Name System (DNS)** is a distributed hierarchical naming system for computers, services, or any resource connected to the Internet or a private network. It associates the information with domain names assigned to each of the participants. Most importantly, it translates domain names meaningful to humans into the numerical (binary) identifiers associated with networking equipment for the purpose of locating and addressing these devices worldwide. The DNS Server settings page is used to manage the DNS settings of a device.

To open DNS Server Settings page, click **Settings > Network Settings > DNS Configuration** from the menu bar. A sample screenshot of DNS Configuration page is shown below.

	O 2019-04-07 19:27:47 (UTC-11:30 UTC)	2	A ²	O Sync	C Refresh	💄 admin 🗸
BMC Eirmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	DNS Configuration	ef Home	> Settings	> Network 5	Settings > DNS	Configuration
Quick Links 🔻	0					
# Dashboard	DNS Enabled					
📾 Sensor	mDNS Enabled					
System Inventory						
FRU Information	Host Name Setting					
🕍 Logs & Reports >	Host Name					
Settings	AMIE0D55EC59DC2					
🖵 Remote Control	BMC Registration Settings					
Image Redirection						
O Power Control	BMC Interface: bond0					
F Maintenance	✓ Register BMC					
 Mainteance Sign out 	Register BMC Registration method:					

Domain Name Service Configuration

DNS Enabled: To enable/disable all the DNS Service Configurations.

mDNS Enable: To enable/disable the mDNS Support Configurations.

Host Name Settings: Choose either Automatic or Manual settings.

Host Name: It displays host name of the device. If the Host setting is chosen as Manual, then specify the host name of the device.



Note: Value ranges from 1 to 64 alpha-numeric characters.

Special characters '-'(hyphen) and '_'(underscore) are allowed.

It must not start or end with a '-'(hyphen). IE browsers won't work correctly if any part of the host name contain underscore (_)character.

BMC Registration Settings

BMC Interface: Options to register the BMC through the Interfaces (eth0ð1). **Register BMC**: To register BMC through registration method.

Registration Method

Options to register the BMC are through NS Update or DHCP Client FQDN or Hostname.

TSIG Configuration

Both: Check this option to modify TSIG authentication for both interfaces.

Eth 0&1:

- **TSIG Authentication Enabled**: Check this box to enable TSIG authentication while registering DNS via nsupdate. Separate TSIG files can be uploaded for each LAN interface.
- **Current TSIG Private File**: The information of Current TSIG private file along with its uploaded date/time will be displayed (readonly).
- New TSIG Private File: Browse and navigate to the TSIG private file.



Note: TSIG file should be of private type.

Domain Setting: Select whether the domain interface will be configured manually or automatically.

- Automatic If you Select Automatic, the Domain Name cannot be configured as it will be done automatically. The field will be disabled.
- **Manual** If the Domain setting is chosen as Manual, then specify the domain name of the device.



Note: If you select "Automatic" it displays the Domain Interface option. If you select "Manual" it displays "Domain name".

• Domain Name: It displays the domain name of the device.

Domain Name Server Setting

Automatic - If you select Automatic "DNS Interface" option should be explained.

Manual - Specify the DNS (Domain Name System) server address to be configured for the BMC.

IP Priority:

- If IP Priority is IPv4, it will have 2 IPv4 DNS servers and 1 IPv6 DNS server.
- If IP Priority is IPv6, it will have 2 IPv6 DNS servers and 1 IPv4 DNS server.



Note: This is not applicable for Manual configuration.

DNS Server 1, 2 & 3

To specify the DNS (Domain Name System) server address to be configured for the BMC.

Note: IPv4 Addresses should be given in dotted decimal representation.

IPv6 Addresses are supported and must be global unicast addresses.

DNS Server Address will support the following:

- IPv4 Address format.
- IPv6 Address format.

Save: To save the current changes.

Procedure

- 1. In Domain Name Service Configuration, Enable DNS Service.
 - Check the option DNS Enabled to enable all the DNS Service Configurations.
- 2. Choose the Host Name Setting either Automatic or Manual.



Note: If you choose Automatic, you need not enter the Host Name and if you choose Manual, you need to enter the Host Name.

- 3. Enter the Host Name in the given field if you have chosen Manual Configuration.
- 4. Under Register BMC, choose the BMC's network port to register with DNS settings.
- 5. Check **Register BMC** option to register with DNS settings.
 - Nsupdate Choose Nsupdate option to register with DNS server using nsupdate application.
 - DHCP Client FQDN Choose DHCP Client FQDN option to register with DNS Server using DHCP option 81.
 - Hostname Choose Hostname option to register with DNS server using DHCP option 12.



Note: Hostname option should be selected, if the DHCP client FQDN option is not supported by DHCP server.

- 6. Check Both option to modify TSIG authentication for both interfaces (eth0&1).
- In Eth 0&1 TSIG Configuration, Check TSIG Authentication Enabled option to enable/ disable TSIG authentication while registering DNS via nsupdate.
 - The current file name will be displayed in Current TSIG Private file info field.
 - To view a new one, click New TSIG private file to browse and navigate to the TSIG private file.
- 8. In the Domain Settings,
 - Select the domain settings (Automatic or Manual).
 - Enter the Domain Name in the given field if the option "Manual" is being selected in domain settings field.

- 9. In Domain Name Server Setting,
 - Select the DNS Name Server Setting.
 - Choose the IP Priority, either IPv4 or IPv6.
 - Enter the DNS Server address.
- 10.In DNS Server1, DNS Server2 and DNS Server3, enter the server addresses to be configured for the BMC.
- 11. Click **Save** to save the entries.

2-6-8 NVMe-MI Management

	0 2000-01-01 14:48:29 (UTC+00:00 GHT)		🖬 🎤 US-English 🔹	♦ Sync 🖸 Refresh 💄 admin +
BMC Flamwood information 1242.05 Apr 30 2029 16:38:29 CST © Host Online	NVMe-MI Management			# Hone > Settings > MMeMIMasagement
QuickLinks.	(i) NMMe-34 Subsystem	NVMe-MI Wital Product Data		
System Inventory FRU Information				
lat Logs & Roports →				
Remote Control Image Redirection Power Control				

NVMe-MI Subsystem Information

On selecting any particular NVMe SSD, the corresponding NVMe SSD Subsystem Information, Port Information, Subsystem Health Status Poll and Set Health Status Change will be displayed. Click on 'Clear All' button to clear all Composite Controller Status Flags at a time under 'Subsystem Health Status Poll' information tab.

Click on 'Clear' button to clear individual Composite Controller Status Flags under 'Set Health Status Change' information tab.

	G 2000-01-01 14/50:21 (UTC+00:00 GHT)		🛎 🎤 us-English 🔹 O Sync 😂 Refresh 💄 admin 🗸
BMC.Fitzmance.Infocmation 12.42.65 Apr 30 2020 16:38:29 CST Heat Online	NVMe-MI Subsystem Information		df. Hence = Settings = NMMe-NI Management = NMMe-NI Subsystem information
QuickLinka. *			0
# Dashboard	NVHo SSD v		
a Seroor	Subsystem Information Port Information Subsystem Health Status Poli Set Health	Status Change	
• System Inventory	No. of Ports M	(or Version Minor V	lesion
FRU Information			
🕍 Logs & Reports 🔷			
O Settings			
Remote Control			
El Image Redirection			
O Power Control			
🗲 Maintanance			
🕪 Sign out			

NVMe-MI Vital Product Data

On selecting any particular NVMe SSD, the corresponding SSD's Product Information will be displayed. It displays detailed information like IPMI Version, Product Name, Part Model, Product Version etc.. of the NVMe SSD. On Click of 'Multi Record Information' tab NVMe MultiRecord and NVMe PCIe Port MultiRecord will be displayed.

	≡ 0 2000-01-01 14	:51:43 (UTC+00:00 GMT)			8	🖉 US - English 🔹 🗢 Sync 🛛 Refresh 🚽	L admin -
BMC Firmware Information 12.43.85 Apr 38 2003 56:38:39 CST Host Coline	NVMe-MI Vita	l Product Data				$d\bar{t}$ Hame $>$ Settings $>$ NMie-Hi Management $>$ NMie-Hi Vz	tal Product Data
Quick Links.							0
 Dushbeard 	NVMc SSD •						
🚯 Sensor	Product Inform	ation HultiRecord Information					
System inventory	IPMI Version	Namafacturer	Product Name	Part Nodel	Product Version	Product Secial	- 1
FRU Information							
lal Logs & Reports 🔹 🔸							
O Settings							
🖵 Remote Control							
🛱 Image Redirection							
O Power Control							
∦ Maintenance							
lø Sign out							

2-6-9 PAM Order Settings

This page is used to configure the PAM ordering for user authentication in to the BMC. To open PAM Ordering page, click **Settings > PAM Order Settings** from the menu bar. A sample screenshot of PAM Order page is shown below:

	O 2019-04-08 07:09:58 (UTC+00:00 UTC)
Feb 20 2019 19:31:34 CST Host Online	PAM Order
Quick Links 🔻	
🕈 Dashboard	0
n Sensor	PAM Authentication Order
System Inventory	IPMI
FRU Information	LDAP
Land Logs & Reports >	ACTIVE DIRECTORY
Settings Remote Control	RADIUS
Image Redirection	
C Power Control	🖹 Save
🗲 Maintenance	
🕒 Sign out	

The fields of Setttings > PAM Ordering page are explained below.

PAM Module: It shows the list of available PAM modules supported in BMC.



Note: It is recommended to not to keep same username for different PAM modules. If Authentication fails, the reason of fail could be invalid User or Invalid Password. If Radius Authentication fails, we can't differentiate whether it is invalid user or invalid password. So it is always treated as Invalid username error and PAM will try other Authentication Methods.

If AD contains secret username & password as empty, Authentication fails will be always treated as Invalid Password error. For Invalid Password error PAM will not try other Authentication Methods. So it is recommended to keep AD in the last location in PAM order.

Procedure

- 1. Select the required PAM module and click and drag the required PAM module. It can be moved UP or DOWN to change its arrangement order.
- 2. Click **Save** to save any changes made.



Note: Whenever the configuration is modified, the web server will be restarted automatically. Logged-in session will be logged out.

2-6-10 Platform Event Filter

Platform Event Filter (PEF) provides a mechanism for configuring the BMC to take selected actions on event messages that it receives or has internally generated. These actions include operations such as system power-off, system reset, as well as triggering the generation of an alert.

In MegaRAC GUI, the PEF Management is used to configure the following:

- Event Filters
- Alert Policies
- LAN Destinations

To open PEF Management Settings page, click Settings > Platform Event Filter from the menu bar. Each tab is explained below.

	O 2022-12-12 06x8:23 (UTC+00:00 UTC) O		S A US-Engli	h • • BIOS OSync CRafresh 1 admin •
BMC Timmane: Information 12.58.64 New 4 20221 18:11:03 CST 0 Hust Online	Platform Event Filters			# Home > Settlegs > Plattern Event Filters
QuickUnits.	•	\bigtriangleup	►	
🚳 Serace	Exections	AUCTORIOS	Dividestructures	
System Inventory FRU Information				
Lall Logs & Reports >				
Settings				
Remote Control				
Ca Image Redirection				
₽ Maintenance				
\varTheta Sign out				

Event Filters

A PEF implementation is recommended to provide at least 40 entries in the event filter table. A subset of these entries should be pre-configured for common system failure events, such as over-temperature, power system failure, fan failure events, etc. Remaining entries can be made available for 'OEM' or System Management Software configured events. Note that individual entries can be tagged as being reserved for system use - so this ratio of pre¬configured entries to run-time configurable entries can be reallocated if necessary.

	≡ 0,2000-01-0	11 05:53:17 (UTC+00:00 GNT)					a P 🛛	/S - English	* OSync 🖸 Refresh	1 admin -
BMC Fittmaner Information 1242.65 Apr 38 2003 16:38:39 CST Hist Colline	Event Filte	rs							# Home > Settings > Platform Event Filter	s > EventFilters
Quicktinis.	⊖ All ® Conf	lgured [©] UnConfigured								
Gustablocend Go System Inventory FRU Information		PEF Rc 1 (Enabled) when All Sensors switches to critical state news		PEF IDc 2 (Enablied) when All Sensors switches to non-critical state none	0	PEF ID: 3 (Enabled) when All Sensors suitches to critical state none	0	►	PEF ID: 4 (Enabled) when All Sensors switches to non-critical state nome	0
lål Logs & Roports → O Settlings		PEF ID: 5 (Enabled) when All Sensors switches to critical state news		PEF BC 6 (Enabled) when All Sensors switches to non-critical state none	0	PEP ID: 7 (Enablied) when All Sensers switches to critical state none	0		PEP ID: 8 (Evolvid) when All Sensors switches to non-critical state none	0
Image Redirection Power Control Maintenance Sinn out	►	PEF ID: 0 (Enabled) when All Sensors switches to critical state none	•	PEF ID: 10 (Enabled) when All Sensors switches to non-critical state none	0	PEF ID: 11 (Intebied) when All Sensors switches to critical state none	0		PEF ID: 12 (Enebled) when All Sensors switches to non-critical state none	0
o spine		PEF ID: 13 (Enabled) when All Sensors sortches to critical state neee		PGF IID: 14 (Enabled) when All Sensors switches to critical state none	0	PEF IIC: 15 (Enabled) when All Sensors switches to critical state none	0			

The fields of Platform Event Filters Tab are explained below. This page contains Pre-configured 40 Events with PEF IDs.

Procedure

- 1. Click the Event Filters section to configure the event filters in the available slots.
- 2. To Add an Event Filter entry, select a free section to open the Event Filter entry page. A sample screenshot of Event Filter Configuration page is shown below.

	© 2000-01-01 05:58:50 (UTC+00:00 GMT)	
BMC Firmware Information 12.42.06 Apr 39 2928 16:38:29 CST Host Online	Event Filter Configuration	
Quick Links 💌		0
🖷 Dashboard	Enable this filter	
a Sensor	Event severity to trigger	
System Inventory	Critical state	•
FRU Information	Event Filter Action Alert	
لط Logs & Reports >	Power Action None	•
Settings	Alert Policy Group Number	
🖵 Remote Control	1	۳
Image Redirection	Raw Data	
O Power Control	Generator ID 1	
€ Maintenance	0xFF	
	Generator ID 2	
er sign out	0xFF	
	Generator Type	
	Slave Software	
	Slave Address/Software ID	
	Channel Number	
	0	٠

In the Event Filter Configuration section:

- In Enable this filter, check this option to enable the PEF settings.
- In Event Severity to trigger, select any one of the Event severity from the list.
- Check Event Filter Action Alert to enable alerts for event filter actions.
- Select any one of the Power Action either Power down, Power reset or Power cycle from the drop down list
- Choose any one of the configured Alert Policy Group Number from the drop down list.



Note: Alert Policy has to be configured - under Settings->PEF->Alert Policy.

- Check Raw Data option to fill the Generator ID with raw data.
- Generator ID 1 field is used to give raw generator ID 1 data value.
- Generator ID 2 field is used to give raw generator ID2 data value.



- In the Event Generator section, choose the event generator as Slave Address if event was generated from IPMB. Otherwise as System Software ID - if event was generated from system software.
- In the Slave Address/Software ID field, specify corresponding I2C Slave Address or System Software ID.
- Choose the particular Channel Number that event message was received over. Or choose '0' if the event message was received via the system interface, primary IPMB, or internally generated by the BMC.
- Choose the corresponding IPMB Device LUN if event generated by IPMB.

- Select the **Sensor Type** of sensor that will trigger the event filter action.
- In the SensorName field, choose the particular sensor from the sensor list.
- Choose Event Option to be either All Events or Sensor Specific Events.
- In the Sensor Events field, choose the type of event levels.

• Event Trigger field is used to give Event/Reading type value.

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Note: Value ranges from 1 to 255.



Event Data 1 AND Mask field is used to indicate wildcarded or compared bits.

Note: Value ranges from 1 to 255.

Event Data 1 Compare 1 & Event Data 1 Compare 2 fields are used to indicate whether each bit position's comparison is an exact comparison or not.



Note: Value ranges from 1 to 255.

- Event Data 2 AND Mask field is similar to Event Data 1 AND Mask.
- Event Data 2 Compare 1 & Event Data 2 Compare 2 fields are similar to Event Data 1 Compare 1 and Event Data 1 Compare 2 respectively.
- Event Data 3 AND Mask field is similar to Event Data 1 AND Mask.
- Event Data 3 Compare 1 & Event Data 3 Compare 2 fields are similar to Event Data 1 Compare 1 and Event Data 1 Compare 2 respectively.
- 3. Click Save to save the changes and return to event filter list.
- 4. Click Delete to delete the existing filter.

Alert Policies

This page is used to configure the Alert Policy for the PEF configuration. You can add, delete or modify an entry in this page.



The fields of Platform Event Filter - Alert Policies section are explained below.

Policy Group Number: Displays the Policy number of the configuration.

Enable this alert: To enable or disable the policy settings.

Policy Action: To choose any one of the Policy set values (0-5) from the list.

0 - Always send alert to this destination.

1 - If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set.

2 - If alert to previous destination was successful, do not send alert to this destination. Do not process any more entries in this policy set.

3 - If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set that is to a different channel.

4 - If alert to previous destination was successful, do not send alert to this destination. Proceed to next entry in this policy set that is to a different destination type.

LAN Channel: To choose a particular channel from the available channel list.

Destination Selector: To choose a particular destination from the configured destination list.



Note:LAN Destination has to be configured - under Settings->Platform Event Filters >LAN Destinations.

Event Specific Alert String: To specify an event-specific Alert String.

Alert String Key: To specify which string is to be sent for this Alert Policy entry.

Save: To save the Alert Policies entries.

Delete: To delete the selected configured Alert Policy.

Procedure

- 1. In the Alert Policies Section, select the slot for which you have to configure the Alert policy. That is, In the **Alert Policies page**, if you have chosen Alert Policy Group Number as 4, you have to configure the 4th slot (the slot with Policy Number 4) in the Alert Policy Tab.
- 2. Select the slot and click on the empty slot to open the **Alert Policies** page as shown in the screenshot below.

				8	🖾 🔺 🌣 Sync	🕿 🛦 🌣 Sync 🖸 Refresh
BHC. Licroware. Information 2,76,103227 Jan 28 2019 10.44.04 CST Host Online	Alert Policies		₩ Home >	₩ Home > Settings > Pi	# Home - Settings - Platform Event Filters	# Hone - Settings - Platform Event Filters - Alert Publicles
Quick Links	Alert Policies	0				
# Dashboard	Policy Group Number					
n Sensor	1	•				
System Inventory	Enable this alert					
FRU Information	Policy Action					
M Logs & Reports	Always send alert to this destination	•				
• C-11	LAN Channel					
	1	•				
Remote Control	Destination Selector					
EA Image Redirection	-					
O Power Control	Event specific wert string					
F Maintenance	Alert String Key					
🕒 Sign out						
	Delete	🖺 Save				

- 3. Select Policy Group Number from the drop-down list.
- 4. Check Enable this alert to enable the policy settings.
- 5. Choose any of the Policy Action from the list.
- 6. Choose particular LAN Channel from the available channel list.
- 7. In the **Destination Selector**, choose particular destination from the configured destination list.



Note: LAN Destination has to be configured under **Settings-> Platform Event Filters->LAN Destinations**.

That is if you select the number 4 for destination selector in Alert Policy Entry page, then you have to configure the 4th slot (LAN Destination Number 4) in the LAN Destinations tab.

- 8. Enable Event Specific Alert String, if the Alert policy entry is Event Specific.
- 9. In the **Alert String Key** field, choose any one value that is used to look up the Alert String to send for this Alert Policy entry.



Note: Using Web UI, Alert strings cannot be configured but option for Event Specific alert strings can be enabled/disabled. There is an option to select only the alert string keys, but alert strings has to be configured using IPMI Command (Set PEF Config Parameter 'Alert String").

- 10. Click Save to save the new alert policy and return to Alert Policy list.
- 11. Click **Delete** to delete a configuration.

LAN Destinations

This page is used to configure the LAN destination of PEF configuration. A sample screenshot of LAN Destination page is given below.

Market State LMD Destinations Market State LMD Destinat	admin +
Exercise Exercise Exercise Microsofti 1 Microsofti 2 Microsofti 2 Microsofti 2 Micro	Destinations
Source	
A term UK Ownell UK Ownell UK Ownell • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • train nearing • tr	0
0 TR1 best-one Image: Control one of the	
If (1) Exponent 2 Image: Constraint 2 Image: Constraint 2 Image: Constraint 2 Image:	
Series Series De None Creation De None Creatio De None Creation De None Creatio De None Creation De No	200
A tangandeetee	
As mag institution	
O Power Control	623
Matericania LMR Classed 1 LMR Classe	
	823
LAR Channel 1 LAR Ch	

The fields of Platform Event Filters - LAN Destinations are explained below. Select any empty slot to configure LAN Destinations.

Cirrenation 6.00.0 Seep 15 2017 21:13:31 CST © Haat Offices	LAN Destination Configuration	di Nome	Settings	Platform Event Filters	- LANDestinations	LAN Destination Configuration
Quick Links *	0					
Dashboard	LAN Channel					
Sensor	3					
System Inventory	LAN Destination					
FRU Information	Destination Type					
Int. Logs & Reports	SNMP Trap E-Mail					
O Settings	SNMP Destination Address					
🖵 Remote Control	10.1.112.38 BNC Username					
EA Image Redirection						
O Power Control	Email Subject					
	Email Message					
	Celeta 🔯 Save					

Select the LAN Channel: To select the LAN Channel number

LAN Channel: Displays LAN Channel Number for the selected slot (read-only).

LAN Destination: Displays ID for setting Destination Selector of Alert Policy (read-only).

Destination Type: Destination type can be either an SNMP Trap or an E-mail alert. For E-mail alerts, the four fields - SNMP Destination Address, BMC User Name, Email subject and Email message needs to be filled. The SMTP server information also has to be added - under **Settings** ->**SMTP Settings**. For SNMP Trap, only the SNMP Destination Address has to be filled.

SNMP Destination Address: If Destination type is SNMP Trap, then enter the IP address of the system that will receive the alert. Destination address will support the following:

IPv4 address format.

IPv6 address format.

BMC User Name: If Destination type is Email Alert, then choose the user to whom the email alert has to be sent. Email address for the user has to be configured under Settings-->User Management.

Email Subject & Email Message: These fields must be configured if email alert is chosen as destination type. An email will be sent to the configured email address of the user in case of any severity events with a subject specified in subject field and will contain the message field's content as the email body. These fields are not applicable for 'AMI- Format' email users.



Note: User should be configured under Settings-->User Management

Save: To add a new entry to the device. Alternatively, double click on a free slot. **Delete**: To delete the selected configured LAN Destination.

Procedure

- In the LAN Destinations section, choose the number of slots to be configured. This should be the same number of slot that you have selected in the Alert Policies -Destination Selector field. That is if you have chosen the Destination Selector as 4 in the Alert Policies page of Alert Policies tab, then you have to configure the 4th slot of LAN Destination page.
- 2. Select the slot and click on the empty slot. This opens the LAN Destination entry.
- 3. In the LAN Channel Number field, the LAN Channel Number for the selected slot is displayed and this is a read only field.
- 4. In the **LAN Destination** field, the destination for the newly configured entry is displayed and this is a read only field.
- 5. In the **Destination Type** field, select the one of the types.
- 6. In the SNMP Destination Address field, enter the destination address.
- 7. If the destination type is Email alert, select the BMC User Name from the list of users.





- 8. In the Email Subject field, enter the subject.
- 9. In the Email Message field, enter the message.
- 10. Click Save to save the new LAN destination and return to LAN destination list.
- 11. Click Delete to delete a configuration.
- 12. Click Send Test Alert to send sample alert to configured destination.



Note: Test alert can be sent only with enabled SMTP configuration. SMTP support can be enabled under **Settings->SMTP Settings**.

2-6-11 Services

This page displays the basic information about services running in the BMC. Only Administrator can modify the service.

To open Services page, click **Settings > Services** from the menu bar. A sample screenshot of Services page is shown below.

	2019-04	I-07 19:58:45 (U	TC-11:30 UTC)				Sync Sync	CRefresh 💄 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Services							F Home > Settings > Services
Quick Links 🔻	Service 🗢	Status 🗢	Interfaces 🗢	Non Secure Port 🗢	Secure Port 🗢	Timeout 🕈	Maximum Sessions 🖨	
🖨 Dashboard	web	Active	bond0	80	443	1800	20	=
🙆 Sensor	kvm	Active	bond0	7578	443	1800	2	=
System Inventory	cd-media	Active	bond0	5120	443	N/A	4	=
FRU Information	hd-media	Active	bond0	5123	443	N/A	4	= /
Settings	ssh	Active	bond0	N/A	22	600	N/A	= /
Remote Control	solssh	Inactive	bond0	N/A	N/A	60	N/A	= /
Image Redirection								
O Power Control								
🗲 Maintenance								
🕒 Sign out								

The fields of Services page are explained below.

Services: Displays service name of the selected slot (read-only).

Status: Displays the current status of the service, either active or inactive state.

Interfaces: It shows the interface in which service is running.

Nonsecure Port: This port is used to configure non secure port number for the service.

- Web default port is 80
- KVM default port is 7578
- CD Media default port is 5120
- FD Media default port is 5122
- HD Media default port is 5123
- Telnet default port is 23
- SOLSSH default port is 52123



Note: SSH service will not support non secure port. If single port feature is enabled, KVM, CD Media, FD Media and HD Media ports cannot be edited. Port value ranges from 1 to 65535.

Secure Port: Used to configure secure port number for the service.

• Web default port is 443

- KVM default port is 7582
- CD Media default port is 5124
- FD Media default port is 5126
- HD Media default port is 5127
- SSH default port is 22



Note: Telnet service and SOLSSH will not support secure port. If single port feature is enabled, KVM, CD Media, FD Media and HD Media ports cannot be edited. Port value ranges from 1 to 65535.

Port listening status on various feature settings:

	Single port enabled	Single port disabled	Only KVM encryption enabled	Only Media encryption enabled	Both KVM and Media encryption enabled
Adviser (video server)	7578 (LP)	7578 (LP) 7578 (EO)	7578 (LP) 7578 (EO)	7578(LP) 7578 (EO)	7578(LP) 7582 (EO)
Cdserver	5120 (LP)	5120 (LP) 5120 (EO)	5120 (LP) 5120 (EO)	5120 (LP) 5124 (EO)	5120 (LP) 5124 (EO)
Fdserver	5122 (LP)	5122 (LP) 5122 (EO)	5122 (LP) 5122 (EO)	5122 (LP) 5126 (EO)	5122 (LP) 5126 (EO)
Hdserver	5123 (LP)	5123 (LP) 5123 (EO)	5123 (LP) 5123 (EO)	5123 (LP) 5127 (EO)	5123 (LP) 5127 (EO)



Note: LP - Loopback, EO - Exposed Outside.

The adviser will always be listening to loopback as well as kvm configured interface as mentioned in the above table. So that the H5Viewer client can connect to the video server.

The media servers will be listening to loopback as well as configured interface as mentioned in the above table. So that the Imedia/rmedia and H5Viewer/JViewer client can connect to the media servers.

Timeout: Displays the session timeout value of the service. For web, SSH and telnet service, user can configure the session timeout value.



Note: Web timeout value ranges from 300 to 1800 seconds. KVM timeout value ranges from 300 to 1800 seconds. SSH and Telnet timeout value ranges from 60 to 1800 seconds. SSH and Telnet timeout value ranges from 60 to 1800 seconds. SSH and telnet service will be using the same timeout value. If you configure SSH timeout value, it will be applied to telnet service also and vice versa.
If KVM is launched then the web session timeout will not take effect.

Maximum Sessions: Displays the maximum number of allowed sessions for the service. **Active Sessions**: To view the current active sessions for the service.

Procedure to view the Active Sessions:

- 1. Click View Icon (📄) to view the details about the active sessions for the service.
- This opens the Active Session screen (for example Service Sessions) as shown in the screenshot below.

	O 2000-01-01 06:21:33 (UTC+00:00	GMT)			=)	US - English		1 admin -
BINC l'immenze information 12,42,65 Apr 30 2009 16:58:29 CST I Hoat Online	Service Sessions						# Home > Settings > Services	Service Semiora
Quick Unics.	Active Session - Web							
# Dashboard								
Serocr	Session ID \$	Session Type 🕈	User ID \$	User Name 🕈	Client IP #	Privilege ¢		
• System inventory	4	Web HTTPS	2	admin	10.1.7.88	Administrator	•	
FRU Information								
🕍 Logs & Reports 🔹 🔸								
O Settings								
Remote Control								
El Image Redirection								
O Power Control								
<i>F</i> Maintenarce								
\varTheta Sign out								

Session Type: Displays the type of the active sessions.

User: Displays the name of the user.

Client IP: Displays the IP addresses that are already configured for the active sessions.

Privilege: Displays the access privilege of the user.

3. Select a slot and click **Terminate** icon (Image: Terminate icon () to terminate the particular session of the service.

Procedure to modify the existing services:

1. To modify the existing services, select a slot and click Terminate icon (



Note: Whenever the configuration is modified, the service will be restarted automatically. User has to close the existing opened session for the service if needed.

2. This opens the Service Configuration screen as shown in the screenshot below.

	O 2019-04-07 20:04:42 (UTC-11:30 UTC)	🖀 🔺 🍳 Sync 😂 Re	fresh
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Service Configuration	₩ Home > Settings > Services >	Service
Quick Links	Θ		
🖷 Dashboard	Service Name		
🙆 Sensor	web		
System Inventory >	Active		
FRU Information	Interface Name		
ML Logs & Reports >	Non-secure port		
Settings	80		
Remote Control	Secure port		
Image Redirection	443		
D Power Control	Timeout		
🖌 Maintenance	1800		
🕪 Sign out	Maximum Sessions 20		
	🖹 Save		

- 3. Service Name is a read only field.
- 4. Activate the Current State by enabling the Active check box.



Note: Interfaces, Non-secure port, Secure port, Time out and Maximum Sessions will not be active unless the current state is active.

- 5. Enter the Secure Port Number in the Secure Port field.
- 6. Enter the timeout value in the Timeout field.



- Note: The values in the Maximum Sessions field cannot be modified.
- 7. Click Save to save all changes you have made, else click Cancel to exit.

2-6-12 SMTP Settings

Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks.

Using MegaRACGUI, you can configure the SMTP settings of the device.

To open SMTP Settings page, click **Settings > SMTP Settings** from the menu bar. A sample screenshot of SMTP Settings page is shown below.

	O 2019-04-07 20:07:15 (UTC-11:30 UTC)	B A	🛇 Sync 🛛 😂 Refr	sh
BMC Firmware Information 2.76.103227 Jan 28 2019 10:04:04 CST Host Online	SMTP Settings		₩ Home ≻ Settin	ja ≻ SN
vick Links	Ø			
Dashboard	LAN Interface			
Sensor	bond0			
System Inventory	Sender Email ID			
FRU Information				
Logs & Reports >	Primary SMTP Support			
Settings	Primary Server Name			
Remote Control				
Image Redirection	Primary Server IP			
Power Control	Deimany SMTD and			
Maintenance	25			
Sign out	Primary Secure SMTP port			
	465			
	Primary SMTP Authentication			
	Primary Username			
	Primary Password			
	Primary SMTP SSLILS Enable			
	Primary SMTP STARTTLS Enable			
	Secondary SMTP Support			
	B Save			

The fields of SMTP Settings page are explained below.

LAN Interface: Displays the list of LAN channels available

Sender Email ID: A valid 'Sender Address' to indicate the BMC, whenever e-mail is sent. Primary Server Name: The 'Machine Name' of the BMC, from where the e-mail is sent.



Note: Machine Name is a string of maximum 15 alpha-numeric characters.

Space, special characters are not allowed.

Primary SMTP Support: To enable/disable SMTP support for the BMC.

Primary SMTP Port: To specify the SMTP Normal Port.

Primary Secure SMTP Port: To specify the SMTP Secure Port.



Note: For Primary SMTP Port - Default Port is 25, and the Port value ranges from 1 to 65535.

For Primary Secure SMTP Port - Default Port is 465, and the Port value ranges from 1 to 65535.

Primary Server IP: The IP address of the SMTP Server. It is a mandatory field.

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l	

Note: IP Address made of 4 numbers separated by dots as in "xxx.xxx. xxx.xxx".

Each Number ranges from 0 to 255. First Number must not be 0.

Supports IPv4 Address format and IPv6 Address format.

Primary SMTP Authentication: To enable/disable SMTP Authentication.

Note: SMTP Server Authentication Types supported are:

- CRAM-MD5
- LOGIN
- PLAIN

If the SMTP server does not support any one of the above authentication types, the user will get an error message stating "Authentication type is not supported by SMTP Server."

Primary Username: Enter username to access SMTP Accounts.



Note: User Name can be of length 4 to 64 alpha-numeric characters, dot(.), dash(-), and underline(_).

It must start with an alphabet.

Other Special Characters are not allowed.

Primary Password: Enter password for the SMTP User Account.

Note: Password must be at least 4 characters long.



Blank space is not allowed.

This field will not allow more than 64 characters.

Primary SMTP STARTTLS Enable: To enable STARTTLS support for the SMTP Client.

- Upload SMTP CA Certificate File: File that contains the certificate of the trusted CA certs. CACERT key file should be of pem type,LOGIN
- Upload SMTP Certificate File: Client certificate filename. CERT key file should be of pem type.
- Upload SMTP Private Key: Client private key filename. SMTP key file should be of pem type.



Note: To enable STARTTLS support, the respective SMTP support option should be enabled.

Secondary SMTP Support: It lists the Secondary SMTP Server configuration. It is an optional field. If the Primary SMTP server is not working fine, then it uses Secondary SMTP Server configuration.



Note: Options of Secondary SMTP Support are same as Primary SMTP Support.

Save: To save the new SMTP server configuration.

Procedure

- 1. Select the LAN Interface from the drop-down list.
- 2. Enter the Sender Email ID in the specified field.
- 3. Check Primary SMTP Support option to enable SMTP support for the BMC.
- 4. Enter the Machine Name of the SMTP Server in the Primary Server Name.



Note: - Machine Name is a string of maximum 15 alpha-numeric characters.

Space, special characters are not allowed.

- 5. Enter IP address of the SMTP Server in the **Primary Server IP** field. It is a mandatory field.
- 6. Enter the Primary SMTP Port in the specified field.
- 7. Enter the Primary Secure SMTP Port in the specified field.
- 8. Enable the check box **Primary SMTP Authentication** if you want to authenticate SMTP Server.
- 9. Enter your Primary User name and Primary Password in the respective fields.

10. Enable the check box Primary SMTP SSLTLS Enable to send data through secure Port.



Note: If this option is selected, STARTTLS option and Normal Port will be hidden.

- 11. Check the **Secondary SMTP Support** option to enable Secondary SMTP support for the BMC.
- 12. Enter the Secondary Server Name, Secondary Server IP, Secondary SMTP Port and Secure
- 13. Port values in the respective fields.
- 14. Enable the check box **SMTP Server Authentication** if you want to authenticate SMTP Server.
- 15. Enter your Secondary User name and Password in the respective fields.
- 16. Enable the check box Secondary SMTP SSLTLS to send data through secure Port.





17. Click Save to save the entered details.

2-6-13 SSL Settings

The **Secure Socket Layer** protocol was created by Netscape to ensure secure transactions between web servers and browsers. The protocol uses a third party, a **Certificate Authority (CA)**, to identify one end or both end of the transactions.

Using MegaRAC GUI, configure SSL certificate into the BMC. Using this, the device can be accessed in a secured mode.

To open the SSL Certificate Configuration page, click Settings > SSL Settings from the menu bar. There are three tabs in this page.

	O 2019-04-07 20:09:05 (UTC-11:30 UTC)		2	₽	 Sync 	C Refresh	1 admin -
BMC Firmware Information 2.76.103227 Jan 28 2019 10:04:54 (ST Host Online	SSL Settings				# Hor	ne > Settings >	SSL Settings
Quick Links •	View SSL certificate	Generate SSL certificate	Upload SSL certificate				
Sensor System Inventory							
FRU Information							
læl Logs&Reports →							
Remote Control							
Image Redirection							
🕪 Sign out							

- Upload SSL Certificate option is used to upload the certificate and private key file into the BMC.
- Generate SSL Certificate option is used to generate the SSL certificate based on configuration details.
- View SSL Certificate option is used to view the uploaded SSL certificate in readable format.

A sample screenshot of Upload SSL Certificate page is shown below.

	O 2019-04-07 20:10:09 (UTC-11:30 UTC)	2	▲ ♦ Sync	CRefresh	Ladmin •
BMC Firmware Information 2.76.105227 Jan 28 2019 10:44:04 CST Host Coline	Upload SSL Certificate	續 Hom	e > Settings > SSLSet	tings ≻ Upload SSL0	Certificate
Quick Links 🔻	0				
🏶 Dashboard	Current Certificate				
🙆 Sensor	Sun Jam 27 14:56:18 2019				
System Inventory	New Certificate				
FRU Information	Current Private Kay				
Låll Logs&Reports →	Sun Jan 27 14:56:18 2019				
Settings	New Private Key				
🖵 Remote Control	b				
Image Redirection	B Save				
O Power Control					
✗ Maintenance					
🕪 Sign out					

The fields of SSL Settings - Upload SSL Settings tab are explained below.

Current Certificate: Current certificate and uploaded date/time will be displayed (read-only).

New Certificate: Certificate file should be of pem type

Current Private Key: Current Private key information will be displayed (read-only).

New Private Key: Private key file should be of pem type

Upload: To upload the SSL certificate and privacy key into the BMC.



Note: After successful upload, HTTPs service will restart to use the newly uploaded SSL certificate.

	2019-04-07 20:14:31 (UTC-11:30 UTC)		🕿 🛦 🍳 Sync 🖸 Refresh 🌡 admin 🗸
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST I Host Conline	Generate SSL Certificate	# H	ome > Settings > SSLSettings > Generate SSLCertificate
Quick Links *	0		
# Dashboard	Common Name (CN)		
🙆 Sensor			
System Inventory	Organization (O)		
FRU Information			
🕍 Logs & Reports 🔹 💙	Organization Unit (OU)		
Settings	City or Locality (L)		
🖵 Remote Control			
🖨 Image Redirection	State or Province (ST)		
O Power Control			
	Country (C)		
🕪 Sign out	Email Address		
	Valid for		
	in days		
	Key Length		
	2048 bits •		
	🖹 Save		

The fields of SSL Settings - Generate SSL Certificate are explained below.

Common Name(CN): Common name for which certificate is to be generated.

- Maximum length of 64 characters.
- It is a string of alpha-numeric characters.
- Special characters '#' and '\$' are not allowed.

Organization(O): Organization name for which the certificate is to be generated.

- Maximum length of 64 characters.
- It is a string of alpha-numeric characters.
- Special characters '#' and '\$' are not allowed.

Organization Unit(OU): Over all organization section unit name for which certificate is to be generated.

- Maximum length of 64 characters.
- It is a string of alpha-numeric characters.
- Special characters '#' and '\$' are not allowed.

City or Locality(L): City or Locality of the organization (mandatory).

- Maximum length of 128 characters.
- It is a string of alpha-numeric characters.
- Special characters '#' and '\$' are not allowed.

State or Province(ST): State or Province of the organization (mandatory).

- Maximum length of 64 characters.
- It is a string of alpha-numeric characters.
- Special characters '#' and '\$' are not allowed.

Country(C): Country code of the organization (mandatory).

- Only two characters are allowed.
- Special characters are not allowed.

Email Address: E-mail Address of the organization (mandatory).

Valid for: Validity of the certificate.

• Value ranges from 1 to 3650 days.

Key Length: The key length bit value of the certificate.

Save: To generate the new SSL certificate.



Note: HTTPs service will get restarted, to use the newly generated SSL certificate.

The fields of SSL Settings - View SSL Certificate are explained below.

Basic Information: This section displays the basic information about the uploaded SSL certificate. It displays the following fields:

- Version Serial Number
- Signature Algorithm
- Public Key
- Issuer Common Name(CN)
- Issuer Organization(O)
- Issuer Organization Unit(OU)
- Issuer City or Locality(L)
- Issuer State or Province(ST)
- Issuer Country(C)
- Issuer E-mail Address
- Valid From
- Valid Till

	@ 2019-04-07 20:15:38 (UTC-11:30 UTC)	🕿 🛦 🍳 Sync 🖸 Refresh 🏦 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	View SSL Certificate	# Home ≥ Settings ≥ SSLSettings ≥ View SSL Certificate
Quick Links •	Current Certificate Information	
# Dashboard	Certificate Version	
🙆 Sensor	3	
System Inventory	Serial Number	
FRU Information	Signature Algorithm	
🕍 Logs & Reports 🔹 💙	sha256WithRSAEncryption	
Settings	Public Key	
🖵 Remote Control	(2048 bit)	
A Image Redirection	Issuer Common Name (CN)	
C Power Control	AMI	
F Maintenance	Issuer Organization (0)	
🕪 Sign out	American Megatrends Inc	
	Issuer Organization Unit (OU)	
	Issuer City or Locality (1)	
	Atlanta	
	Issuer State or Province (ST)	
	Georgia	
	Issuer Country (C)	
	us	
	Issuer Email Address support@ami.com	
	Valid From	
	Jun 1 07:01:56 2016 GMT	
	May 30 07:01:56 2026 GMT	
	Issued to Common Name (CN)	
	Issued to (Imparization (0))	
	American Megatrends Inc	
	Issued to Organization Unit (OU)	
	Service Processors	
	Issued to City or Locality (L)	
	Atlanta	
	Issued to State or Province (ST) Georgia	
	Issued to Country (C)	
	us	
	Issued to Email Address	
	support@ami.com	

Procedure

- 1. Click the Upload SSL Certificate tab, Browse the New Certificate and New Private key.
- 2. Click Upload to upload the new certificate and private key.
- 3. In Generate SSL Certificate, enter the following details in the respective fields:
 - The **Common Name** for which the certificate is to be generated.
 - The **Organization** for which the certificate is to be generated.
 - The Organization Unit name for which certificate to be generated.
 - The City or Locality of the organization
 - The State or Province of the organization
 - The Country of the organization
 - The Email address of the organization.
 - The number of days the certificate will be valid in the Valid For field.
- 4. Choose the Key Length bit value of the certificate
- 5. Click **Save** to generate the certificate.
- 6. Click **View SSL** Certificate tab to view the uploaded SSL certificate in user readable format.



Note: Once you Upload/Generate the certificates, only HTTPs service will get restarted. You can now access your Web securely using the following format in your IP Address field from your Internet browser: https://<your BMC's IP address here> For example, if your BMC's IP address is 192.168.0.30, enter the following: https://192.168.030

Please note the <s> after <http>. You must accept the certificate before you are able to access your Web.

2-6-14 System Firewall

In MegaRAC GUI, the System Firewall page allows you to configure the firewall settings. The firewall rule can be set for an IP or range of IP Addresses or Port numbers. To view this page, you must at least be an operator. Only administrators can add or delete a firewall.

To open System Firewall page, click Settings > System Firewall from the menu bar.



General Firewall Settings

Click **General Firewall Settings** page. A sample screenshot of General Firewall Settings page is shown below.

	G 2019-04-07 20:20:49 (UTC-11:30 UTC)	🛎 🔺 O Sync 🖸 Refresh 🏦 admin 🗸
BMC Firmware Information 2.76.105227 Jan 28 2019 1044:04 CST Host Online	General Firewall Settings	# Hone - Settings - Firewall - General Firewall Settings
Quick Links *	o +	
🖶 Dashboard	Existing Firewall Settings Add Firewall Settings	
🙆 Sensor		
System Inventory >		
FRU Information		
lal Logs& Reports →		
 Settings 		
🖵 Remote Control		
Image Redirection		
O Power Control		
✗ Maintenance		
6• Sign out		

The fields of Firewall Settings tab are explained below.

To View Existing Firewall Settings

Click **General Firewall Settings > Existing Firewall Settings** icon. A blank page will be opened if you did not add anything in "Add Firewall Settings". If any settings are added, then the added rule will be listed in "Existing Firewall Settings" page. A sample screenshot of Existing Firewall Settings page is shown below.



The Existing Firewall Settings page allows you to remove any particular Existing Firewall Settings.

Procedures

- 1. Select the Existing Firewall Settings you want to remove.
- 2. Click on Delete to remove the selected Existing Firewall Settings.



Add Firewall Settings

sisting Firewall Settings	di Hum	e - Settings - Prewall - Ge	neral Frewall Settings	Disting free all tetting	 EntingPrevailSetting
	Θ				
Block All					
IPv6					
Plush All					
 Timeout 					
Start Date&Time					
Thu Dec 01 2006 13:11:00					
End Date&Time					
Wed Dec 21 2016 13:11:00					
Delate					

- Click General Firewall Settings > Add Firewall Settings. This opens the Add Firewall Settings page as shown below.Select Block All to block all the incoming IP's and Port's.
- 2. Select Block All to block all the incoming IP's and Port's.
- 3. Select Flush All to flush all the system firewall rules.
- 4. Select Timeout to enable or disable firewall rules with timeout.
- 5. Enter Start Time to start the respective firewall rule effect from this time.
- 6. Enter End Time to end the respective firewall rule effect from this time.

Note: The time should be in the dd-mm-yy:hh-mm format.



7. Click **Save** to save the changes made else click **Cancel** to go back to the previous screen.

IP Address Firewall Rules

Click IP Firewall Rules page. A sample screenshot of IP Firewall Rules page is shown below.

≡ ⊙2019-	04-07 20:26:44 (UTC-11:30 UTC)		a A	Sync	C Refresh	🛔 admin 🖌
EMC Firmware Information 2.7.8.100227 Jan 20 2010 10:44:54 CST • Not Online	all Rules		n Horr	e > Settings :	Firewall > 1P F	irewall Rules
Quick Links	Stisting IP Rules	Add New IP Rule				
System Inventory FRU Information						
Al Logs & Reports						
 Image Redirection Power Control Maintenance 						
fit Sign out						

The fields of IP Address Firewall tab are explained below.

To View Existing IP Rules or a range of IP Addresses

Click Settings > System Firewall > IP Address Firewall Rules > Existing IP Rules. A blank page will be opened if you did not add anything in "Add IP Rule". If any rule is added, then the added rule will be listed in "Existing IP Rules" page.

A sample screenshot of Existing IP Rules page is shown below.



The Existing IP Rules page allows you to remove any particular Existing IP Rules.

Procedures

- 1. Select the Existing IP Rules you want to remove.
- 2. Click on Delete to remove the selected Existing IP Rules.

		🕿 🛕 O Sync 🖸 Refresh 🏦 admin •
EMC Firmware Information 2.76.109227 Jan 28 2019 10:44:94 CST Host Online	Existing IP Rules	$\label{eq:massed_state} \mbox{\bf # Home} \sim Satisgs \sim Forward \sim P Oriented Forward Rules \sim Existing P Rules \sim Existing P Rules ~ Existing P Rules $
Quick Links	0	
# Dashboard	IP Single (or) Range Start	
🙆 Sensor	10.1.112.123	
System Inventory	IP Range End	
FRU Information	Finable Timeout	
네 Logs & Reports >	Start Date&Time	
• Settings	2019-04-07 20:27:00 (UTC-11:30 UTC)	
🖵 Remote Control	End Date&Time	
A Image Redirection	2019-04-10 22:27:00 (UTC-11:30 UTC)	
O Power Control	Rule	
✗ Maintenance		
🕪 Sign out	Decete	

IP Single (or) Range Start - To show the configured Port Address or Range of Ports.

IP Range End - To show the configured Port Address or Range of Ports.

Enable Timeout - To enable/disable Timeout.

Start Date - The respective firewall rule effect will start from this date.

Start Time - The respective firewall rule effect will start from this time.

End Date - The respective firewall rule effect will end from this date.

End Time - The respective firewall rule effect will end from this time.

Rule - To indicate the current setting of the listed Port or Range of Port rules (Allow or Block) status.

Delete - To delete the selected slot.

Procedures

 Click Settings > System Firewall > IP Address Firewall Rules > Add New IP Rule to add a new IP or range of IP address.

	6
IP Single (or) Range Start	
IP Range End	
optional	
Enable Timeout	
Start Date	
2019-04-07	<u> </u>
Start Time	
20:30	0
End Date	
2019-04-07	m
End Time	
20:30	0
Rule	
	9

2. In the Add new rule for IP page, Enter the IP address and a range of IP addresses in the IP Single or IP Range Start field.



Note: IP Address will support IPv4 Address format only: IPv4 Address made of 4 numbers separated by dots as in xxx.xxx.xxx. Each number ranges from 0 to 255. First number must not be 0. IPv6 Address made of 8 groups of 4 Hexadecimal digits separated by colon as in xxxx:xxxx:xxxx:xxxx:xxxx:xxxx:xxxx.

- 3. Enter IP range end value in the IP Range End field.
- 4. Enable **Timeout** to enable firewall rules with timeout.
- 5. Enter Start Date to start the respective firewall rule effect from this date.
- 6. Enter End Date to end the respective firewall rule effect from this date.
- 7. Enter Start Time to start the respective firewall rule effect from this time.

8. Enter **End Time** to end the respective firewall rule effect from this time.

Note: The date and time should be in the YYYY/MM/DD and hh-mm format respectively.

9. Determine the rule to block or accept.

10. Click **Save** to save the changes made.

Port Firewall Rules

Click **Port Firewall Rules** page. A sample screenshot of Port Firewall Rules page is shown below.

			8 A	• Sync	2 Refresh	1 admin •
EMC Firmware Information 2.76.103227 Jan 28 2019 10044:04 (ST Host Online	Port Firewall Rules		# Home	> Settings >	Firewall > Port	Firewall Rules
Quick Links	Existing Port Rules	Add New Port Rule				
System Inventory FRU Information						
LålL Logs&Reports →						
Remote Control Image Redirection						
 Power Control Maintenance 						
6 Sign out						

The fields of Port Firewall Rules tab are explained below.

To view Existing Port Rules

Click Settings > System Firewall > Port Firewall Rules > Existing Port Rules. A blank page will be opened if you did not add anything in "Add New port Rule". If any rule is added, then the added rule will be listed in "Existing Port Rules" page.

A sample screenshot of Existing Port Rules is shown below.

The Existing Port Rules page allows you to remove any particular Existing Port Rules.



Procedures

- 1. Select the Existing Port Rules you want to remove.
- 2. Click on Delete to remove the selected Existing Port Rules.

	2019-04-07 20:35:06 (UTC-11:30 UTC)	2	🛦 ᅌ Sy	nc 🖸 Refresh 🌡 ad
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Existing Port Rules	$\boldsymbol{\mathfrak{M}}$ Home \simeq Settings \simeq Firewall \simeq Port Oriented Fi	rewall Rules > Exist	ting Port Rules > Existing Port R
Quick Links *	0			
# Dashboard	Port Single (or) Range Start			
🖚 Sensor	123			
System Inventory	Port Range End			
FRU Information	456			
-	Protocol			
. Contraction				
Secongs	IPv4			
Remote Control	Enable Timeout			
Image Redirection	Start Date&Time			
O Power Control	2019-04-07 20:33:00 (UTC-11:30 UTC)			
F Maintenance	End Date&Time			
🕒 Sign out	2019-04-26 21:33:00 (UTC-11:30 UTC)			
	Rule			
	Allow			
	Delete			

The fields of System Firewall - Existing Port Rules page are explained below.

Port Single (or) Range Start - To configure the Port or Range of Port Addresses.

Port Range End - To configure the Port or Range of Port Addresses.

Protocol - This field specifies the protocols for the configured Port or Port Ranges.

Network Type - This field specifies the affected network type for the particular Port or Port Ranges.

Enable Timeout - To enable or disable firewall rules with timeout.

Start Date - The respective firewall rule effect will start from this time.

Start Time - The respective firewall rule will start from this time.

End Date - The respective firewall rule effect will end on this date.

End Time - The respective firewall rule will end at this time.

Rule - To indicate Allow or Block status.

Delete - To delete the entry to the firewall rules list.

Procedure to add Port/Range of ports

1. To add a new range of Port address, click the Add button

	G
Port Single (or) Range Start	
Port Range End	
optional	
Protocol	
тср	
Network Type	
IPv4	,
Start Date 2019-04-07	
Start Time	
20:35	0
End Date	=
End Date	
End Date YYYY/MM/DD End Time	
End Date YYYYYMM/DD End Time	0
End Date YYYY/MM/DD End Time Rule	O

- 2. In the Add new rule for Port window, enter the port number or a range of port numbers in the Port Single (or) Range Start field.
- 3. Enter the end value in the Port Range End field.
- 4. Select the **Protocol** to be either TCP or UDP or Bot.
- 5. Select the Network Type. It may be IPv4 or IPv6 or Both.
- 6. Select Timeout to enable or disable firewall rules with timeout.
- 7. Enter Start Time to start the respective firewall rule effect from this time.
- 8. Enter Start Date to start the respective firewall rule effect from this date.
- 9. Enter End Date to end the respective firewall rule effect on this date.
- 10. Enter End Time to end the respective firewall rule effect at this time.

Note: The time should be in the YYYY/MM/DD:hh-mm format.

- Ę
 - 11. Select the Rule to determine the rule to Block or Allow.
 - 12. Click **Save** to save the changes made.

2-6-15 User Management

In MegaRAC GUI, the User Management page allows you to view the current list of user slots for the server. You can add a new user and modify or delete the existing users.

To open User Management page, click **Settings > User Management** from the menu bar. A sample screenshot of User Management page is shown below.

	O 2019-04-07 20:42:25 (UTC-11:30 UT	°C)	2	🛦 🍳 Sync 😂 Refresh 💄 admin 👻
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:94 CST Host Online	User Management			W Home = Settings > User Management
Quick Links •	Channel 1 •			0
# Dashboard		0	0	
🙆 Sensor	Channel 1 1 anonymous	Channel 1 2 admin (Active)	Administration Administration	4 (Disabled)
System Inventory >	Administrator	RVM VMedia	RVM VMedia	
FRU Information				
lålLogs&Reports →	Channel 1 5 (Disabled)	Channel 1 6 (Disabled)	Channel 1 7 (Disabled)	Channel 1 8 (Disabled)
• Settings		-	-	-
Remote Control				
O Power Control	Channel 1	Channel 1	Channel 1	Channel 1
₣ Maintenance	(Disabilito)	(Disable)	II (Disabled)	12 (Disbond)
🕪 Sign out				
	Channel 1 13 (Disabled)	Channel 1 14 (Disabled)	Channel 1 15 (Disabled)	Channel 1 16 (Disabled)

Click user icon () and select any free slot to add a new user from the User Management main page.



Note: The Free slots are shown as "Disabled" in all columns for the slot.

The fields of User Management page are explained below.

User ID: Displays the ID number of the user.



Note: The list contains a maximum often users only.

User Name: Displays the name of the user.

User Access: To enable or disable the access privilege of the user.

Network Privilege: Displays the network access privilege of the user.

SNMP Status: Displays if the SNMP status for the user is enabled or Disabled.

E-mail ID: Displays e-mail address of the user.

Add User: To add a new user.

Delete User: To delete an existing user.

Procedure to add a new User

1. To add a new user, select a free section and click on the empty section. This opens the Add User screen as shown in the screenshot below.

	© 2023-13-12 07:42-49-[UTC+00:00 UTC]	
BIC Climmont information 123.04.05 New 0.2021 1.011-05 CD7 0. Head Codere	User Management Configuration	
Quick Links.		0
e Dashboard	Usemane	
Sensor		
O System Inventory	Password Size	
1733 Information	Password	
🕍 Logi & Reports 🔹 🔸		
Settings	Coeffirm Piccawood	
C Remote Control		
G Image Redirection	Enable User Access	
Power Control	Enable Channel Access	
€ Maintenarce	Channel 2	
D Sign out	Privilege(Channel 1)	
		٣
	Privilegel(Unames 2)	~
	KVM Access	
	Vitedia Access	
	SNMP Access	
	SNMP Access level	
		*
	SNMP Authentication Protocol	
		*
	SNMP Privacy Protocol	
	Final format	
	Construction of Construction	~
	Enallip	

- 2. Enter the name of the user in the User Name field.

Note: User Name is a string of I to 16 alpha-numeric characters.

It must start with an alphabetical character.

It is case-sensitive.

Special characters '-'(hyphen), '_'(underscore), '@'(at sign) are allowed. For 20 Bytes password, LAN session will not be established.

- 3. Set Password Size for the new password.
- 4. In the Password and Confirm Password fields, enter and confirm your new password.



Note: Password should be the combination of alphabets, numbers, symbol and upper case characters.

Blank space is not allowed.

This field will not allow more than 16/20 characters based on Password size field value. This field will not allow the below mentioned characters.

The password should be a string, if you try to set password using "ipmitool user set password".

Hex	Char
00	NUL '\0'
01	SOH (start of heading)
02	STX (start of text)
03	ETX (end of text)
04	EOT (end of transmission.)

05	ENQ (enquiry)
06	ACK (acknowledge)
07	BEL '\a' (bell)
08	BS '\b' (backspace)
09	HT '\t' (horizontal lab)
0A	LF '\n' (new Line)
0B	VT '\v' (vertical tab)
0C	FF '\f' (form feed)
0D	CR '\r' (carriage ret)
0E	SO (shift out)
0F	SI (shift in)
10	DLE (data link escape)
11	DC1 (device control 1)
12	IDC2 (device control 2)
13	DG3 (device control 3)
14	DC4 (device control 4)
15	NAK (negative ack.)
16	SYN (synchronous idle)
17	ETB (end of trans. blk)
18	CAN (cancel)
19	EM (end of medium)
19	EM (end of medium)
1A	SUB (substitute)
1B	ESC (escape)
1C	FS (file separator)
1D	GS (group separator)
1E	RS (record separator)
1F	US (unit separator)
20	SPACE
7F	DEL

5. Enable or Disable the Enable User Access Privilege.



Note: Enabling User Access will intern assign the IPMI messaging privilege to user. It is recommended that the IPMI messaging option should be enabled for the user to enable the User Access option, while creating User through IPMI.

- 6. In the Network Privilege and Serial Previlege fields, select the privileges assigned to the user which could be Administrator, Operator, User, OEM or None.
- 7. Check **KVM Access** to assign the KVM privilege for the user.

8. Check VMedia Access assign the VMedia privilege for the user.



Note: It is recommended that the privileges support to KVM and VMedia should be provided only to the ADMIN user and shouldn't be provided to USER and OPERATOR privilege level users. The Admin user can provide the privilege support to USER and OPERATOR privilege level users at their own risk.

VMedia Privilege only restricts initiating / starting media redirection. If a device is already being redirected and attached to the host, then in host it will be visible as normal device. Hence, it will be accessible to all the KVM sessions, which includes 'KVM Privilege only' sessions as well.

9. Check the SNMP Access check box to enable SNMP access for the user.



Note: Password field is mandatory, if SNMP Status is enabled.

- 10. Choose the SNMP Access level option for user from the **SNMP Access level** (SHA or MD5) drop-down list. Either it can be Read Only or Read Write.
- 11. Choose the **SNMP Authentication Protocol** (SHA or MD5) to use for SNMP settings from the drop down list.



Note: Password field is mandatory, if Authentication protocol is changed.

- 12. Choose the Encryption algorithm to use for SNMP settings from the SNMP Privacy protocol (AES or DES) drop-down list.
- 13. In the **Email ID** field, enter the email ID of the user. If the user forgets the password, the new password will be mailed to the configured email address.



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Email Format: Two types of formats are available:

- **AMI-Format**: The subject of this mail format is 'Alert from (your Host name)'. The mail content shows sensor information, ex: Sensor type and Description.
- Fixed-Subject Format: This format displays the message according to user's setting. You must set the subject and message for email alert.

14. In the Upload SSH Key field, click Browse and select the SSH key file.



Note: SSH key file should be of pub type.

15. Click Save to save the new user and return to the users list.

To Modify User

1. To modify the existing user, click on the active user tab. This opens a User screen as shown in the screenshot below.

	9 3022-12-22 07+#20 (UTC+00:00 UTC)	
BIC Limman Laboration 12,34,64 New 4 2021 19:12:43 CD 0 Heat Online	User Management Configuration	
QuickLinks.		Θ
e Dashboard	Usemane	
· Server	anonymous	
O System Inventory	Change Possword	
• FBJ Information	Password Size	
	16 bytes	×
En coga e responta	Password	
Settings		
	Coeffern Passavord	
A Image Redirection		
	Enable User Access	
€ Mandamance	Enable Channel Access	
	Crane 1	
te sign out	Cuane 2	
	Privilege(Channel 1)	
	Note Privilenti Channel 2)	
	Administrator	~
	XXM Access	
	Vitedia Access	
	SNMP Access	
	SNMP Access level	
		~
	SNM2 Authentication Protocol	
		~
	OB22 Drivery Destroyed	
	and the prove	~
	for Marcal	
	Enall Format	

- 2. Check Change Password, if you wish to change the existing Password.
- 3. Follow the steps (3 to 15) of Procedure to add a new User.
- 4. Click Save to save the changes and return to the users list.
- 5. Click **Delete** to delete the user.

2-6-16 Video Recording

The Video Recording consists of the following:

- 1. Auto Video Settings
 - Video Trigger Settings
 - Video Remote Storage
 - Pre-Event Video Recordings
- 2. SOL Settings
 - SOL Trigger Settings
 - SOL Video Remote Storage
 - SOL Recorded Video
- 3. JAVA SOL

A sample screenshot of the Video Recording is given below.

	O 2021-11-12 01-47:33 (UTC+00:00 UTC)		▲ US-English + ●8/05	O Sync O'Refresh 1 admin -
BHC firmsact information 12.34.61 Now C 2022 1 18.11.45 CST 1 Host Oxfore	Video Recording			$\boldsymbol{\theta}$ None - Settings - Video fectoring
QuickLinks.	Auto Video Settings	SOL Settings		
de Sensor				
O System Inventory				
• FRU Information				
lait. Legs & Reports				
• terrings				
Remote Control				
GA Image Hodirection				
O Power Control				
≁ Maintenance				
0+ Sign out				

A detailed description of the menu items are given below.

Auto Video Settings

The Auto Video Settings page allows you to configure the events that will trigger auto video recording function of the KVM server and view the current list of user slots for the server. You can add a new user and modify or delete the existing users.

This page is used to configure the events that will trigger auto video recording function of the KVM server.



To triggers for Auto Video Recording, click Video Recording > Auto Video Settings > Video Trigger Settings from the menu bar. A sample screenshot of Video Trigger Settings page is shown below.

/ideo Trigger Settings	
	0
Critical Events (Temperature/Voltage)	
Non Critical Events (Temperature/Voltage)	
Non Recoverable Events (Temperature/Voltage)	
Fan state changed Events	
Watchdog Timer Events	
Chassis Power On Events	
Chassis Power Off Events	
Chassis Reset Events	
LPC Reset Events	
Date and Time Event	
Pre-Event Video Recording	
e	Save

Video Trigger Settings

Event List: It shows the list of available events to be configured. The events are mentioned below.

- Critical Events (Temperature/Voltage)
- Non Critical Events (Temperature/Voltage)
- Non Recoverable Events (Temperature/Voltage)
- Fan state changed Events
- Watchdog Timer Events
- Chassis Power on Events
- Chassis Power off Events
- Chassis Reset Events
- LPC Reset Events
- Date and Time Event
- Pre-Event Video Recording
 - Pre-crash
 - Pre-reset

Save: To save the current changes.

Procedure

- 1. Check the events to be enabled.
- 2. To set particular Date and Time Event, check the option Date and Time Event.
 - a) Choose the month, day and year from the Date field
 - b) Enter/Choose the Time in hh:mm format in the respective fields.



Note: KVM service should be enabled to perform auto-video recording. The date and time should be in advance to the system date and time.

3. Click **Pre-Event Video Recording** to edit the Pre-Event video recording configurations. A sample screenshot of **Pre-Event Video Recordings** page is shown as below.

	O 2019-04-07 21:02:02 (UTC-11:30 UTC)		🕿 🔺 🌣 Sync	🛛 Refresh 💄 admin 👻
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:94 CST Host Online	Pre-Event Video Recordings	🕷 Home - Settin	gs > Video > Auto settings	Pre-Event Video Recordings
Quick Links *	0			
🏶 Dashboard	This page is used to configure the Pre-Event video recording options. Pre-Event video recording is disabled by default.			
🚳 Sensor	To enable the Pre-Event video recording, go to the Iniggers			
System Inventory	Video Quality			
6 FRU Information	Very Low •			
Lall Logs & Reports >	Compression Mode			
O Settings	High			
🖵 Remote Control	Frames Per Second			
Image Redirection	1			
O Power Control	Video Duration			
🗲 Maintenance	D Save			
🚱 Sign out				

- a) To set video quality, select ranges (very low, low, high, average and normal) from **Video Quality** drop-down list.
- b) To set compression mode, select modes (high, normal, low, no) from **Compression Mode** drop-down list.
- c) To set number of frames per second, select frames/sec (1-4) from **Frames Per Second** drop-down list.
- d) To set duration of video, select second (10-60) from Video Duration drop-down list.
- e) Click Save to save the changes made on the Pre-Event Video Recording.
- 4. Select Crash Reset either Pre-crash or Pre-reset.
- 5. 5. Click **Save** to save the changes.

Video Remote Storage

To Video Remote Storage capture host video before critical event like crash or reset occurs, click **Video Recording > Auto Video Settings > Video Remote Storage**.

A Sample screenshot of Video Remote Storage is as shown below.

	O 2019-04-07 21:04:36 (UTC-11:30 UTC)	i	🕿 🔺 🗢 Sync	2 Refresh 🌡 admir
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST Host Online	Video Remote Storage	續 Home > 1	Settings > video > Auto se	tinga 🗁 Video Remote Storage
Quick Links	Ø			
# Dashboard	Record Video to Remote Server			
🙆 Sensor	Maximum Dumps			
System Inventory	2			
FRU Information	Maximum Duration (Sec)			
Lad Logs & Reports →	20 Maximum Size (MB)			
• Settings	5			
🖵 Remote Control	Server Address			
A Image Redirection	Server IP or Host name			
O Power Control	Path in server			
F Maintenance	eg./opt/bmc/videos			
🕪 Sign out	Share Type Share Type Share Type			
	🖹 Swo			

1. Check **Record Video to Remote Server** to enable the Remote Video Support.

Note: By default, video files will be stored in local path of BMC. If remote video support is enabled, then the video files will be stored only in remote path, not within BMC.

- 2. Enter Maximum Duration (Sec) of the video.
- 3. Enter Maximum Size (MB) of the video.
- 4. Enter Maximum Dumps of the video.



Note: The Maximum Duration of the video should be in the range from 1 to 3600 seconds. The Maximum Size of the video should be in the range from 1 to 500 mb. The Maximum Dumps should be in the range from 1 to 100. The recorded video file should meet either the size constraint or duration constraint, according to the configured settings, depending on which constraint is met first.

5. Enter the Server Address.



Note: Server address will support the following: IP Address (Both IPv4 and IPv6 format). FQDN (Fully qualified domain name) format.

- 6. Enter the source path in Path in Server field
- 7. Select the Share Type (NFS/CIFS). If the selected share type is (CIFS), enter the User Name, Password and Domain Name in the respective fields.
- 8. Click Save to save the settings.

Pre-Event

Pre-Event video recording files will be named as per event captured. For example - if any video is recorded for Crash Event, the recorded file will be named as **pre_crash_video_x.dat**, where x is file count, similarly if it is recorded for reset event it will be named as pre_reset_video_x.dat.

Post-Event

Post-Event video recording files will be named as shown below.

video_dump_<Hostname>_%Y%m%dT%H%M%S.dat.

File Count and Duration for Pre and Post Event Recordings are as shown in the below table:

	Auto Video Recording (Post Event)	Pre-Event Video Recording(only for Crash/reset event)
Time Limits	20 seconds or 5.5MB video allowed if Local Storage.	Default-10sec, but can be configurable up to 60sec.
	300 seconds recording allowed if Remote Storage (Remote Path).	
Video File Count	Local Storage: 2 (After 2, if video recording starts, the oldest video file among the two files will be replaced with the new video)	1 if local storage/3 if remote storage. (Once Max file count reached, will Delete Old video file to store new file.)
	Remote Storage: maximum configured dump value of video files for Remote Storage.	

SOL Settings

To open SOL Set page, click **Settings > Video Recording > SOL Settings** from the menu bar. A sample screenshot of SOL Settings page is shown below.

	@ 2019-04-07 21:07:53 (UTC-11:30 UTC)	2	▲ OSync ORefresh ▲ admin •
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:94 CST Host Online	Sol Settings		${\boldsymbol{\mathfrak{M}}} \ {\sf Home} \succ \ {\sf Settings} \ \succ \ {\sf video} \ \succ \ \ {\sf Sol} \ {\sf Settings}$
Quick Links	SOL Trigger Settlings SOL Remote Storage	SOL Recorded Files	
System Inventory FRU Information			
låll Logs& Reports →			
🖵 Remote Control			
Image Redirection Power Control			
🖌 Maintenance			
69 Sign out			

The SOL Settings consists of three fields:

- SOL Trigger Settings
- SOL Video Remote Storage
- SOL Recorded Files

SOL Trigger Settings

Event List: It shows the list of available events to be configured. The events are shown below.

- Critical Events (Temperature/Voltage)
- Non Critical Events (Temperature/Voltage)
- Non Recoverable Events (Temperature/Voltage)
- Fan state changed Events
- Watchdog Timer Events
- Chassis Power on Event
- Chassis Power off Event
- Chassis Reset Events
- LPC Reset Events
- Date and Time Events
- Save: To save the current changes.

A sample screenshot of SOL Trigger Settings page is shown as below.

	O 2019-04-07 21:08:24 (UTC-11:30 UTC)	3	A OSync	🛛 Refresh 💄 admin 🗸
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST Host Online	SOL Trigger Settings	4 17	fome ≻ Settings ≻ video	- Sol - SOL Trigger Settings
Quick Links *	0			
# Dashboard	Critical Events (Temperature/Voltage)			
💑 Sensor	Non Critical Events (Temperature/Voltage)			
System Inventory	Non Recoverable Events (Temperature/Voltage)			
FRU Information	Fan state changed Events			
Lall Logs & Reports	Watchdog Timer Events			
 Settings 	Chassis Power On Events			
🖵 Remote Control	Chassis Power Off Events			
Image Redirection	Chassis Reset Events			
O Power Control	LPC Reset Events			
F Maintenance	Date and Time Event			
6 Sign out	🖏 Save			

Procedure

- 1. Check the events to be enabled to configure which event on the page will trigger the SOL video recording option to start.
- 2. To set particular Date and Time Event, check the option Date and Time Event.
 - a) Choose the month, day and year from the Date field
 - b) Enter the Time in hh:mm:ss format in the respective fields.



Note: The date and time should be in advance to the system date and time.

3. Click Save to save the changes.

SOL Video Remote Storage

This page allows you to configure recorded video files. The sample screenshot and various fields of **SOL Video Remote Storage** are given below.

	G 2019-04-07 21:11:34 (UTC-11:30 UTC)	≅ ≙	 Sync 	C Refresh	1 admin •
LIMS: Dirmenare Information 2.76.103227 Jan 28 2023 10:44:04 CST Host Colline	SOL Remote Storage	# Home ⊢ Se	ttings > video	≻ Sol ≻ SOLR	mote Storage
Quick Links	0				
# Dashboard	Log Size (KB)				
Service	128				
System Inventory	Log File Count				
FRU Information	Record SQL to Remote Server				
😹 Logs & Reports 🔷 🔸	Server Address				
🗘 Settings	Server IP or Host name				
Remote Control	Path in server				
Image Redirection	eg./opt/bmc/videos				
Power Control	Share Type				
F Maintenance					
Sign out	ta Save				

Procedure for SOL Video Remote Storage:

- 1. Click SOL Video Remote Storage.
- 2. Enter Log Size (KB). The value will support maximum length of 10 digits.
- 3. Enter Log File Count. The default number of Log files count ranges from 1 to 10.

SOL Recorded Files

This page displays the list of available recorded video files on the system. Click on **Download** icon to download and save the video. Click on **Delete** icon to delete the selected video. A sample screenshot of **SOL Recorded Files** is given below.

	O 2019-04-07 21:13:13 (UTC-11:30 UTC)			🕿 🔺 O Sync 🖸 Refresh 🏦 admin +				
BMC Firmware Information 2.76.105227 Jan 28 2019 1044:04 CST Host Online	Sol Recorded Files				₩ Home ≻ S	Settings ≻ vide	no≻ Sol ≻ Sol I	Recorded Files
Quick Links *	S.No \$	File Name 🗢		File Information \$				
# Dashboard								
🙆 Sensor								
System Inventory >								
FRU Information								
Lall Logs & Reports >								
Settings								
🖵 Remote Control								
Image Redirection								
O Power Control								
✗ Maintenance								
€+ Sign out								

2-6-17 Fan Policy

The Fan Policy consists of the following:

1. Add New Fan Profile

A sample screenshot of the Fan Profile is given below.



Procedure to add Fan Profile

To add fan profile:

		Sync CRefresh 1 admin -
RMC Firmware information 12,02,220032 Feb 11 2020 13:00:07 CST Heat Online Quick Links.	Edit New Fan Profile Edit New Fan Profile Unit Save to save the configuration Unit Save to save the configuration Unit Save to save the configuration 2 3 3 3 3 3 3 3 3 3 3 3 3 3	More - tettip - Reholfe - States Factorie
# Dashboard	© 4	. Set the Initialize Duty
2 Sensor	Name - 1. Name the profile	100
System Inventory	NEW_PROFILE	80
FRU Information	Policy Algorithm Sensor Type Initialize Duty	60
Lal Logs & Reports >	0 * Slope * Temperature 2 * 30	96) Anno 40
Settings	Sensor	
Remote Control	Fan	20
🖨 Image Redirection	×BPB_FAN_1A ×BPB_FAN_2A ×BPB_FAN_3A ×BPB_FAN_4A	-100 -50 0 50 100
O Power Control		Sensor Reading Value
€ Maintenance	Paller Constant Constitution	
An Stepart	Policy Execute Condition	6. Select the controlled fan
er agnour	CPU Tdp (W)	
	65	
	Ambient Sensor	
	MB_TEMP1 *	
	Ambient Sensor Value	
	0	
	PCIE Device	
	If target pcie device found, execute this policy *	
	Target PCIE Device	
	×KB0 ×M60	
	Policy Reference Table	7. Click New to a new policy reference table
	Reference 0 Duty (%)	
	30 30 Delote	
	Reference 1 Duty (%) 8. Set reference temp	perature and fan speed duty
	80 100 Delete	

- 1. Name the the profile
- 2. Select the **Algorithm**. Choose the mapping function of temperature and fan speed at this policy.
- 3. Select **Sensor Type**, current or temperature.
- 4. Set the Initialize Type.
- 5. Select the reference device sensor.
- 6. Select the controlled fan.
- 7. Click New to a new policy reference table
- 8. Set reference temperature and fan speed duty
- 9. Click **Save** to save the configuration.
- 10. Click arrow icon to run the fan profile.


2-6-18 Power Consumption

This page you can look current power consumption reading, and configuration power limit.

	() 2021-11-12 07:58:20 (UTC+00:00 UTC)	8	US - English	* BIO5	• Sync	C Refresh	1 admin +
BMC Firmware Information 12258-01 New 4 2021 18:11:43 CST Heat Online	Power Consumption					₩ Home > 1	Power Consumption
Quick Links	0						
# Dashboard	Save						
Sensor	Power Consumption Reading (Include CPU and IO)						
System Inventory							
FRU Information	Current Power Consumption (W) 195						
Lall Logs & Reports	Minimal Power Consumption (W)						
O Settings	187						
Remote Control	Maxmal Power Consumption (W)						
El Image Redirection	271						
O Power Control	Average Power Consumption (W)						
🗲 Maintenance							
0+ Sign out	Platform Power Consumption Limit (minimum power limit: 272)						
	Feabled						

Below features are only applied to 2U4N models:

Chassis - Power Consumption Reading: Display total chassis power consumption currently. **Chassis - Platform Power Consumption Limit**: The function is that you can set power limit through CMC. Then, CMC will distribute power limit to other currently power on nodes. For example, if you set 1000w and 4 nodes power on currently, CMC will set power limit 250w to each node.

	0
Save	
—	
Chassis - Power Consumption Reading	
Current Power Consumption (W)	
148	
linimal Power Consumption (W)	
141	
Iaxmal Power Consumption (W)	
198	
werage Power Consumption (W)	
145	
Chassis - Platform Power Consumption Limit	
Enabled	
Power Consumption Limit	
200	

2-6-19 RAID Management

The RAID Management page allows you to view the Storage Summary, RAID Controller information, Physical Device Information, Logical Device Information and Event Log.

	© 2023-02-07 08:11:14 (UTC+00:00 GMT)		🗷 🛦 🗍 US - English	▼ ●BIOS ●Sync ■Refresh ▲ admin +
LHC. Econosec information 2240.39 Dec 9 2022 15: 02:26 CM 0 Host Online	Settings Configure BMC options			iff Hone - Settings
Quick Links. •	Castured BS00	Date & Time	External User Services	KINI House Setting
A Sensor A System Invectory →	1		ф	1E
FRU Information	Log Settings	Media Redirection Settings	Network Settings	PAM Order Settings
Logi & Reports	Platform Event Filter	RAID Hanagement	T Services	SMTP Settings
Remote Control Image Redirection	SSI: Settings	System Firewall	Liser Management	Video Recording
 Power Control Haintenance 	CO Es a territo			
(# Sign out	Pari Prone	Power Consumption		

RAID Controller Information

To open the RAID Controller Information, click Settings > RAID Management > RAID Controller Information from the menu bar. A sample screenshot of RAID Controller Information section is shown below.





R

Note: You can get RAID Controller Information only when Host is in Power ON state.

Serial Number : Displays the Serial number of the RAID Controller. Package Version : Displays the Package Version number of the RAID Controller. BIOS Version : Displays the BIOS Version number of the RAID Controller. UEFI Version : Displays the UEFI version number of the RAID Controller. Expander Version : Displays the Expander Version number of the RAID Controller. SEEPROM Version : Displays the SEEPROM Version number of the RAID Controller. CPLD Version : Displays the CPLD Version number of the RAID Controller. PCI Vendor Version : Displays the PCI Vendor Id of the RAID Controller. PCI Device Version : Displays the PCI Device Id of the RAID Controller. PCI SubVendor ID : Displays the PCI Subvendor Id of the RAID Controller. PCI SubVendor ID : Displays the PCI Sub-Device Id of the RAID Controller. PCI SubSystem ID : Displays the PCI Sub-Device Id of the RAID Controller. ROC Temp (°C) : Displays ROC temperature. Expander Temp (°C) : Displays the Expander temperature. **RAID Event Log**: Displays a graphical representation of all events incurred by the RAID Controller and %occupied/available space in logs. If you click on the Details link, you can view a list of available events.

Storage Summary

This tab displays a brief summary of storage devices available under the RAID controller. To open the Storage Summary section, click Settings > RAID Management > Storage Summary from the menu bar. A sample screenshot of Storage Summary section is shown below.

MEGARAC SP-X	=		🛎 🛦 O Sync 😋 Refresh	1 admin +
Firmware information 12.01.201225 Way 13.2019 19:20:44 CST © Heat Office	Storage Summary	_	# Home - Settings - SAD Management	 Stonge Summary
Quick Links	6			
# Dashboard	RAID Controller			
🕰 Sensor	AVAGO MegaRAID SAS 9380-8e (261)			
FRU Information	0			
🕍 Logs & Reports 🔹 🔸	Logical Devices Count:			
O Settings	0			
🖵 Remote Control	Hot Spares Count:			
Eà Image Redirection				
O Power Control				

Physical Devices Count : Displays the number of Physical Devices connected to the controller. **Logical Devices Count** : Displays the number of Logical Devices configured and available under the controller.

Physical Device Information

This tab displays the details about the Physical Devices connected to the RAID controller. To open the Physical Device Information, click Settings > RAID Management > Physical Device Information from the menu bar. A sample screenshot of Physical Device Information section is shown below:

MEGARAC SP-X	\equiv									8	▲ OSync CRefresh L	admin +
Environment Information 12.01.201225 Apr 24 2013 30:46:56 CST © Host Office	Physic	al Device Inforn	nation						di Har	ne > Settin	gs > RAD Hanagement > Physical Device	Information
Quick Links												0
# Dashboard	Select the	RAID Controller AXAGO	HegaRAID SA	5 9460-8I (260) * Clea	r Foreig	p Configu	ration					
n Sensor	-											_
FRU Information	Device ID \$	Controller \$	Media Type ‡	State \$	Slot \$	Speed ¢	Speed \$	Size (GB) \$	Temp (C) ‡	Foreign ‡	Dedicated HotSpare Information (Logical Device Name) ©	
iad Logs & Reports >	1	AVAGO MegaRAID SAS	HOD	Online	4	3.00b/s	3.06b/s	298	44	4		•
Settings		9400-81(200)										-
🖵 Remote Control	3	9460-8I (260)	HDD	Dedicated HOT_SPARE	2	6.008/5	6.0Gb/s	931	39			E
Eà Image Redirection	4	AVAGO MegaRAID SAS 9460-81 (260.)	HDD	UNCONFIGURED_GOOD	7	6.0Gb/s	6.0Gb/s	405	40	8	100	•
Power Control	9	AVAGO MegaRAID SAS 9460-81 (260.)	HOD	Online	з	6.0Gb/s	6.0Gb/s	465	37			æ
F Maintenance	10	AVAGO MegaRAID SAS 9460-8I (260.)	HDD	Online	0	3.0Gb/s	3.0Gb/s	298	36	*		æ
	135	AVAGO MegaRAID SAS 9460-81 (260)	HDD	UNCONFIGURED_GOOD	255	Not Defined	Not Defined	0	0			æ
	-											

Select the RAID Controller : To view the details of specific RAID Controller.

Device Id : Displays the Device ID of physical device available under selected RAID controller.

Controller : Displays the name of RAID controller to which the physical device is attached.

Media Type : Displays the media type of physical device that is attached to the selected RAID controller.

State : Displays State of the Physical Device (either online, or offline).

Slot : Displays Slot number, through which Physical Device is connected to the back plane.

Speed : Displays the speed of the Physical Device in Gb/s.

Link Speed : Displays the link speed of the Physical Device in Gb/s.

Size (GB) : Displays the Size of the Physical Device.

Temp (°C) : Displays the Temperature of the Physical Device.

To perform additional operations, click on the slot or expand the (+) icon. A sample screenshot is shown below.

MEGARAC SP-X	≡									Σ	A OSync	C Refresh	, admin v
Elementa information 12.01.201225 Apr 24 2019 200020 CS1 0 Hore Office	Physic	al Device Inform	ation						4 Hor	ne 🕤 Settin	ga 🕤 RAID Monop	cment × Physical Devic	is information
Quekt mks. •													0
🗃 Dashboard	Select the	RAID Controller AVAGO N	egaRAID SAS	9480-8i (260) 🔫 🛛 Circo	r Horeig	ga Configur	ation						
ana Sensor													
ERU Information	Device ID 0	Controller ‡	Media Type ‡	state \$	Skol ¢	Speed ©	Link Speed ¢	Size (GB) ‡	Temp (C) ‡	Foreign ¢	Dedicated Ho (Logical Devic	LSpare Information re Name) 🗘	
-M Logs & Reports >	1	AWAGO MogaRAID SAS	нор	Online	4	3.0Gb/s	3.0Gb/s	298	44				Θ
Softings		sear al (Au)											
🖵 Remote Control		+ - • •	- /										
A Image Redirection	3	AWAGO MegaRAID SAS 9460 8i (260)	HOD	Dedicated HOT_SPARE	2	8.0Gb/s	8.0GB/s	931	30		3309		æ
O Power Control	4	AVAGO MegaRAID SAS 9480 8i (260.)	HDD	UNCONFIGURED GOOD	7	6.0Cb/s	6.00b/s	485	40		•		æ
Maintenance	9	AVAGO MegaRAID SAS 9460 Bi (260.)	HDD	Online	3	6.0Cb/s	6.0Cb/s	455	37	•	•		æ
	10	AVACO MegaRAID SAS 9480-Bi (260.)	HDD	Online	0	0.00b/s	0.00b/s	298	35		•		Ħ
	135	AVAGO MegaRAID SAS 9460-BI (260.)	HDD	UNCONFIGURED_GOOD	255	Not Defined	Not Defined	0	٥				H

View Physical Device Information: Click View Icon to view more details about the Physical Device Information, including Device Id, Vendor Id, Product Id, Serial Number, Power State, and Interface Type. A sample screenshot of View Physical Device Information page is shown below.

MEGARAC SP-X	=		🗴 O Sync 🖸 Refresh 🏦 admin +
Einmans.information 2.03.92974 Dec 9:2016 10027151 IST © Hourt Office	Physical Device Information	6 Hone - Settings - 840 Hanagement -	Physical Device information > Physical Device information
Quick Links. *	Θ		
a Dashboard	Device ID		
🚯 Sensor	25		
• FRU Information	Vendor ID ATA		
🕍 Logs & Reports 🔷	Product ID		
 Settings 	INTEL SSDSC28812		
🖵 Remote Control	Serial Number		
G Image Redirection	8TWL3326090F120LGN		
O Power Control	Power State Spun Up		
🔎 Haintenance	Interface Type		
🗭 Sign out	SATA		

Logical Device Information

This tab displays the details about the Logical Devices configured under the RAID controller. To open the Logical Device Information section, click Settings > RAID Management > Logical Device Information from the menu bar. A sample screenshot of Logical Device Information section is shown below:

		25:59 (UTC+00:00 GMT)					5 A	US - English +	⊜sios osyne C	Refresh 💄 admin -
BHC Firmware Information 12,66,39 Dec 9 2022 15:49,36 CST 0 Host Colline	Logical Devic	e Information						di Ham	> Settings > RAD Managemen	t > Logical Device Information
Quick Links.										0
# Dashboard	Select the RAID Cont	roller Cigabyte NR-3108-CR44548 (257) *								
🙆 Sensor										
System Inventory	LD Kame U	Controller 0	type o	State #	Read Policy @	Write Poscy @	Cache Policy @	Access Policy @	No.or Pny Devices u	
FRU Information	rest	oldaplate use-state-cevepes (521.)	KAIDU	Optimal	NO HEAD ATREAD	write Inrough	Direct ID	Read-write	1	
Lal Logs & Reports						Create Virtu	al Device	Start	Patrol Read Operation	
O Settings										
Remote Control										
🛱 Image Redirection										
O Power Control										
🗲 Maintenance										
🔁 Signout										

Select the RAID Controller : To view the details of the Logical devices configured under the specific RAID controller.

LD Name : Displays the name of the Logical Device configured under selected RAID controller.

Controller : Displays the Name of the RAID Controller under which the Logical Devices are configured.

Type : Displays the type of RAID level in which the Logical Device is configured, e.g. RAID O or RAID 1 etc.

State : Displays the state of the Logical Device (either online or offline).

Read Policy : Displays the Read Policy details of the Logical Device.

Write Policy : Displays the Write Policy of the Logical Device.

Cache Policy : Displays the Cache Policy details of the Logical Device.

No. of Physical Devices : Displays the number of Physical Devices available under the specific Logical device.

To perform additional operations, click on the slot or expand the (+) icon available for each Logical Device. A sample screenshot is shown below.

		E0K28 (UTC+02:00 GHT)					= 4	US - English *	eaos Osync	CRefresh 🛓 admin -
BHC Elementer Information 12.66.30 Dec 6 3002 15.04236 CST 0 Host Colline	Logical Devic	e Information						W Home	> Settings > RAD Manage	ment > Logical Device Information
Quick Links.										0
# Dashboard	Select the RAID Cont	roller Gigabyte MR-3108-CRA4548 (257) *								
📾 Sensor	LD Name ©	Controller @	Type ©	State ©	Read Policy @	Write Policy \$	Cache Policy 🕏	Access Policy #	No.of Phy Device	s 0
System Inventory	Test	Gigabyte MR-3108-CRA4548 (257)	RAIDO	Optimal	No Read Ahead	Write Through	Direct IO	Read-Write	1	Θ
FRU Information										
🕍 Logs & Reports 🔷										
• Settings						Create Wrts	al Device	Start	Patrol Read Operation	
Pernote Control										
Image Redirection										
Power Control										
🗲 Maintenance										
😝 Sign out										

View Physical Device info for selected Virtual Device : Clicking on the icon will display the Logical Physical Device Information page, It lists the information of physical devices configured for specified logical device. A sample screenshot of View page is shown below:

MC Firmwer Information	≡ ©2022-02-08-08	5428 (UTC+0250 GMT)						8 A	US - English *	esios osync	CRefresh 1 a	idmin •
12.66.39 Bec 9.3022 15:08226-CST 0 Host Online	Logical Device	e Information							di Home	> Settings > RAD Naragen	sent > Logical Device I	normation
Quick Links												0
# Dashboard	Select the RMD Contr	oller Gigabyte MR-3108-CRA4548 (257) *										
an Sensor												
System Inventory	LD Name ©	Controller *	Type ©	State •	Read Policy *	Write	Policy ©	Cache Policy ©	Access Policy #	No.of Phy Devices	•	-
O FRU Information			1000	opuna	NO REPORTEDO	white	Through	UNECTO	Acco write		t	-
🕍 Loga & Reports 🔷												
• Settings							Create Writin	d Device	Start P.	atrol Read Operation		
Remote Control												
El Image Redirection												
O Power Control												
0+ Sign out												
	G 2023-02-08 08:	02:38 (UTC+00:00 GHT)						≅ 4	US-English *	BIOS Sync	CRefresh 1 a	dmin •
. ENC. Firmware Information								# Home -	Settings - IRAD Nanagement - La	gical Device Information > 1	Logical Physical Device In	nformation
Dec 9 2022 13x40:26 CST	Logical Physic	cal Device Information										
Constitute a												0
Contraines -	Selected RAID Controlle	r:Gigabyte MR-3108-CRA4548 (257) and Device ID o	f Logical Device: 0									
W DESIGNATO	_											
Sensor	Device ID ©	Controller Name ©		туре Ф	State ©	Slot \$	Speed ©	Link Speed 🗘	Size (GB) ©	Temp (C) 🗘		
• Splitsburgetter	106	Gigabyte MR-3108-CRA4548 (257)		HDD	Online	1	6.00b/s	6.00b/s	558	55	•	
Let Loss 6 Bergets	-											
A Settlers												
A trave technology												
O Power Control												
F Naintenance												
t♦ Signout												

Check Advanced Properties : Click icon to view the advanced properties of the selected Logical device. A sample screenshot is shown below.

	O 2023-02-08 08 O	:04:28 (UTC+02:00 GHT)					3 A	US - English *	BIOS O Sync	CRefresh 💄 admin •
BHC Firmware Information 12.66.30 bec 8 2022 15:40:36 CST © Not Colore	Logical Devic	e Information						48 Hami	i > Settings > RAD Nanagem	ent > Logical Device Information
Quick Links.										0
# Dashboard	Select the RAID Contr	roller Gigaloyse MR-3108-CRA4548 (257) *								
🚳 Sensor										
O System Inventory	LD Name ©	Controller 🕈	Type ©	State 🕈	Read Policy ©	Write Policy ©	Cache Policy ©	Access Policy ©	No.of Phy Devices	•
	Test	Gigabyte MR-3108-CRA4548 (257)	RAIDO	Optimal	No Read Ahead	Write Through	Direct IO	Read-Write	1	Θ
O FRU Information										
🕍 Logs & Reports 🔷										
• Settings						Create Wr	sal Device	Start	Patrol Read Operation	
P Remote Control										
El Image Redirection										
Power Centrol										
F Haintenance										
9 Signaut										

	@ 2023-02-08 09:23:09 (UTC+00:00 GHT)		🛎 🛕 us-English	Z ▲ us-English * ●8005 ◆Sync	
BMC.Elimenace.Infocmation 12.46.39 Dec.9.2022.13x4228 CST 0 Host Online	Logical Device Information		d Home - Tettings - KARD H	d Hone - Setting - 160 Management - Lagoal Dolice M	# Hone - Setting - Not Management - Laplad Denic Hometex - Lapla
Quick Linka		0			
# Dashboard	Stripe Size				
 Service 	64 KB				
• System Inventory	BGI				
FRU Information	Enabled				
Latt. Logs & Reports >	SSD Caching Dtubled				
 Settings 	Progress				
Remote Control	Unknown				
A max being the	initialization State				
A Descentral	No initialization				
-	Initialization Progress Percentage				
➤ Maintercance	45%				
🕒 Sign out	Bad Blocks Table				
	Empty				
	Size (GB)				

Delete Virtual Drive : Click icon to delete selected virtual device. A pop-up message prompts you to confirm your choice. Upon confirmation, you will be informed about the status.

	O 2023-02-08 08:0	NI-28 (UTC+02:00 GHT)					3 A	US - English *	● BIOS O Sync 📿	Refresh 💄 admin •
BMC Firmware Information 12.66.30 Dec 9 3032 15:41:36 CST 0 Host Colline	Logical Device	Information						ef Hame	> Settings > RAD Nanagement	> Logical Device information
Quick Links.										0
 Dashboard 	Select the RMD Contro	Gigabyte MR-3108-CRA4548 (257) *								
🚳 Sensor										
System Inventory	LD Name #	Controller #	Type #	State #	Kead Policy #	wine Policy #	Cache Policy #	Access Policy #	No.of Phy Devices #	
O FRU Information	16x	0(20)/0 MH 0108 CMM 048 (201)	MIN	opunar	NO REPU AIRCO	white through	UNECCIO	Acco white	1	
😹 Loga & Reports 🔷	= = •									
O Settings						Create Wrt	sal Device	Start P	latrol Read Operation	
P Remote Control										
🖨 Image Redirection										
Power Control										
🖶 Sign out										

To Create Virtual Device:

1. Click Create Virtual Device to create Logical Volume of the Device. A sample screenshot of Create Virtual Device page is shown below.

	© 2022 82 68 09/28/82 (JTC-00.00 0/77)	
BICCONNECTION	Create Virtual Device	
Quid-Linia.		0
et Dashissard	RAID Controller Name Opplyte HIL3330-CR44540 (251)	
di Server	R40 Level	
O System Inventory	8409	*
O Fitztelemation	Legical Device Name	
M Log-& Reports		
0 Settion	mitalization No tablefamine	
Democrat	And the second s	
0.000	(e)	~
tà image Resirection	Read Policy	
Power Centrol	No Read Abard	~
f Linteraria	Write Poley	
B Sgreat	Write Through	¥
	10 Palicy	
	Direct ID	~
	Acoust Pulicy	
	Read/Wite	*
	Bisk Cache Policy	
	UnChanged	*
	UnConfigured Physical Drives	
	LV0 - TVV - 500	
		B 7444

- 2. Select Controller Name from the drop-down lists.
- 3. Select RAID Level from the drop-down lists. A sample screenshot of RAID Levels is as shown below:

Note: Only RAID Levels RAID00, RAID10, RAID50 and RAID60 will support Span Creation.

	O 2022 CO	🗃 🛦 🔯 US-English * 🛛 🛛 BECS O Syna 💭 Refeash 🛓 admin -
BIC Demonstration 12.00.79 Dev 9.0000 1840001 CDT 0 Host Online	Create Virtual Device	# Hore - Sarligs - McHangment - Lagradouis information - Guan Vitra-Doint
Quick Links.		
· Darbbard	RAID Controller Name Oppbyte MR-5008-0844540 (057) *	
a Senser	Rei D Level	
• System Inventory	8400 ···································	
• Fitz Information	84000	
lat Lop & Reports	table fragments	
O Settings	The tribulantion	
Contractor Contract	Stripe Size	
Gi lenge Referction	H42	
Power Control	Read Policy	
A Stantonomo	tie had ihead	
@ Speed	Write Policy Write Through	
	10 Policy	
	Direct ID	
	Acoust Policy	
	Read/Wile	
	bisk Cache Policy	
	Infrastrum Minist New	
	138.+00-88	
	8 Same	

- 4. Enter the depth of the Span in Span Depth field.
- Enter the number of Drives in Drives per Span field.
 Note: UnConfigured Physical Drives should be equal to multiples of Span Depth and Drives per Span.
- 6. Select UnConfig Physical Drives from the drop-down lists.
- Click Create Span for mapping Span Id's to the selected Physical Drives. The mapped Span Id for the selected Unconfigured Physical Drives will be displayed as shown in the above screenshot.
- 8. Enter Logical Name of the Device.
- 9. Select Initialization type from the drop-down lists.
- 10. Select Stripe Size (KB), Read Policy, Write Policy, IO Policy, Access Policy, Disk Cache Policy and UnConfigured Physical Drives details from the respective drop-down lists.
- 11. Click Save to add the information to the Logical Device Information. The information will be added and displayed in the Logical Device Information page.

To Delete Logical Device

Select the Device to be deleted and click Delete Logical Device to delete the selected logical volume. The selected virtual device will be deleted.

Event Log

This page displays all the RAID Controller events occurred that has been already configured. To open the Event Log section, click Settings > RAID Management > Event Log from the menu bar. **Note**: All the events mentioned here are read-only and cannot be edited. A sample screenshot of Event Log section is shown below:

		MT)					▲ US-English • BIOS • Sync ② Refresh ▲ admin •
ENC Firmware Information 22.00.39 Dec 9 2022 15:42:26 CST Host Online	Event Log						# Hone > Settings > RAD Management > Event Log
Quick Links •							0
# Dashboard	Select the RAID Controller Gigabyte MR	3108-CRA4548 (25)	() * Select the	Event Type All Eve	ents ~		
🚓 Sensor	會 Clear Event Log						
System Inventory	Controller 🗢	Record Id 🗢	Time Stamp 🖨	Event Code 🗢	Event Type 🗢	Event Class 🗢	Ewant Description \$
 FRU Information 	Gigabyte MR-3108-CR44548 (257)	185	02/08/2023	370	LD Events	Info Events	VD 00/0 is available
lall Logs & Reports 아	Gigabyte MR-3108-CRA4548 (257)	185	02/06/2023	138	LD Events	Info Events	Created VD 00/0
 Settings 	Gigabyte MR-3108-CR44548 (257)	185	02/08/2023	138	Configuration Events	Info Events	Created VD 00/0
Remote Control	Gigabyte MR-3108-CRA4548 (257.)	184	02/08/2023	249	LD Events	Info Events	VD 00/0 is now OPTIMAL
G Image Redirection	Gigabyte MR-3108-CR44548 (257.)	183	02/08/2023	114	PD Events	Info Events	State change on PD 6a(e0xfc/s1) from UNCONFIGURED_GOOD(0) to ONUNE(18)
A Deres Control	Gigabyte MR-3108-CR44548 (257.)	182	02/08/2023	44	Controller Events	Info Events	Time established as 02/08/23 5:59:53; (25 seconds since power on)
O Power Control	Gigabyte MR-3108-CRA4548 (257)	181	02/08/2023	195	BBU Events	Warning Events	BBU disabled; changing WB virtual disks to WT, Forced WB VDs are not affected
F Haintenance	Gigabyte MR-3108-CRA4548 (257.)	180	02/06/2023	505	Controller Events	Info Events	Controller operating temperature within normal range, full operation restored
B Sign out	Gigabyte MR-3108-CRA4548 (257)	179	02/08/2023	499	Controller Events	Info Events	Boot Device reset, setting target ID as invalid
	Gigabyte MR-3108-CR44548 (257.)	178	02/08/2023	547	PD Events	Info Events	PD 6c(e0xfc/s0) Inquiry info: Info- WD WD6000BKHG-02A29 G1EB0AAE45 558 GB
	< < 1 2 3 4	5 6 7 8	9 10 11	12 13 14	15 16 17 18 1	9 1 2	

The Event Log page consists of the following Fields.

Select the Event Type: This field is to filter the type of event to be viewed among all available events under specified RAID controller. The category could be either All Events, LD events, PD Events, Enclosure Events, BBU Events, SAS Events, Controller Events, Configuration Events and Cluster Events.

Note: Filtering can be done with the Events mentioned in the list. Once the Event Log category is chosen in the Event type drop-down list then the filtered events will be displayed with the Record ID, Time Stamp, Event Code, Event Type and Event Class.

Navigational arrows can be used to selectively access different pages of the Event Log. **Clear Event Log**: To delete all the event logs.

Procedure

- 1. Select the RAID Controller from the drop-down list.
- 2. Select the Event Type from the drop-down list.
- 3. To clear all events from the list, click Clear Event Log.

2-7 Remote Control

The system and browser requirements for Remote Control are given below.

System Requirements

- Client machine with 8GB RAM.
- If the client machine has 4GB RAM, there will be lag in Video/keyboard/mouse functionality.

Supported Browsers

- Chrome latest version.
- Microsoft Edge latest version.
- Firefox (with limited support).



Note: It is advisable to use Chrome or Edge for H5 Viewer, since Firefox has its own memory limitations.

To open Remote Control page, click Remote Control from the menu bar. A sample screenshot of the Remote Control page is shown below.

	C 2019-04-07 22:19:30 (UTC-11:30 UTC)	₽	 Sync 	🛛 Refresh 💄 admin 👻
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 (ST Host Online	Remote Control & Remote KVM & SOL			# Home > Remote Control
Quick Links •	🗻 Launch KVM			
# Dashboard	🛦 Launch JAVA SOL			
🚳 Sensor				
System Inventory >				
FRU Information				
Låll Logs & Reports >				
 Settings 				
🖵 Remote Control				
Image Redirection				
O Power Control				
F Maintenance				
🕪 Sign out				

A detailed description of the menu items are given on the next page.

Open the Remote Control page, click Launch KVM. A sample screenshot of the Remote KVM page is shown below.

	➡ O 2019-04-07 22:19:30 (UTC-11:30 UTC)	₽	Sync	🛛 Refresh 💄 admin 👻
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Remote Control & Remote KVM & SOL			# Home > Remote Control
Quick Links	📥 Läunch KVM			
# Dashboard	📥 Launch JAVA SOL			
🙆 Sensor				
System Inventory				
FRU Information				
🕍 Logs & Reports 🔹 🔸				
• Settings				
Remote Control				
A Image Redirection				
O Power Control				
F Maintenance				
🕪 Sign out				

H5Viewer: Click 'Launch H5Viewer' button to launch the H5viewer window.

JViewer: Click 'Launch JViewer' button to download the jviewer(.jnlp) file.

Serial Over LAN: Click 'Activate' button to launch the HTML5 Serial Over LAN window.

2-8 Images Redirection

This page is used to configure the images into BMC for redirection. This can be done either by uploading an image into BMC say, **Local Media** or by mounting the image from the remote system, **Remote Media**.

To open Images Redirection page, click Images Redirection from the menu bar. A sample screenshot of Images Redirection page is shown below.



The fields of Images Redirection page are explained below.

Remote Images

R

Note: VMedia Privilege only restricts initiating / starting media redirection. If a device is already being redirected and attached to the host, then in host it will be visible as normal device. Hence it will be accessible to all the KVM sessions. Which includes 'KVM Privilege only' sessions as well.

2-8-1 Remote Media

The displayed table shows configured images on BMC. You can configure images of remote media server.

	■ 0 2019-04-07 22	1:25:21 (UTC-11:30 UTC)			🕿 🛦 🍳 Sync	🛛 Refresh 💄 admin 🗸
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST	Remote Med	ia Emulate CD/DVD/HDD	images in the network to l	host as media through BMC	🏶 Home 🖂 Image F	edirection > Remote Media
Quick Links						© Refresh Image List
# Dashboard	Media Type	Media Instance	Image Name	Redirection Status	Connected Server Session Index	
🙆 Sensor						
System Inventory >						
FRU Information						
lal Logs & Reports						
Settings						
🖵 Remote Control						
🖨 Image Redirection						
O Power Control						
F Maintenance						
6 Sign out						



Note: More than one image can be configured for each image type. At maximum 4 images can be configurable.

To configure the image, you need to enable Remote Media support under **Settings->Media Redirection - > General Settings**.

To start/stop redirection and to delete an image, you must have Administrator Privileges. Free slots are denoted by "~"

The fields of Remote Media tab are as follows:

Media Type: Displays type of Media such as CD/DVD, Floppy and Harddisk.

Media Instance: Displays total media instance count.

Image Name: Displays the default recovery image name on the server.

Status: Displays the status of the media.

Session Index: Displays Media Server Session Index.

Start/Stop Redirection: To start or stop Media redirection

Pause: To pause the Media redirection.

Refresh Image List: To get latest Image lists from the Remote Storage.

Procedure

1. To **Start/Stop Redirection** and configure remote media images, click (Start/Stop icon) and make sure Remote Media Support option is enabled.



Note: The Start Redirection button is active only for VMedia enabled users.

 Select a configured slot and click (Start/Stop icon) to start the Remote media redirection. It is a toggle button, if the image is successfully redirected, then click (Start/Stop icon) to stop the Remote media redirection. If you want to pause the Remote Media Redirection, click (Pause icon). o clear an image status, select an image and click () (Clear icon) to clear image status from the device.



Note: Redirection needs to be stopped to clear the image.

- 3. To clear an image status, select an image and click () (Clear icon) to clear image status from the device.
- Click Refresh Image List to get latest Image lists from the Remote Storage. The Latest Image Names list will be displayed in the Image Name drop-down list.

2-9 Power Control

This page allows you to view and control the power of your server.

To open Power Control, click **Power Control** from the menu bar. A sample screenshot of Power Control is shown below.

	O 2019-04-07 22:26:53 (UTC-11:30 UTC)	
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Power Control on Host Server	
Quick Links •	Power Actions	0
# Dashboard	Host is currently on	
🙆 Sensor	Power Off	
System Inventory >	Power On	
FRU Information	Power Cycle	
Latt Logs & Reports >	Hard Reset	
 Settings 	ACPI Shutdown	
🖵 Remote Control		Perform Action
🖨 Image Redirection		
😃 Power Control		
🗲 Maintenance		
🕪 Sign out		

The various options of Power Control are given below.

Power Off: To immediately power off the server.

Power On: To power on the server.

Power Cycle: This option will first power off, and then reboot the system (cold boot).

Hard Reset: This option will reboot the system without powering off (warm boot).

ACPI Shutdown: This option to initiate operating system shutdown prior to the shutdown.

Perform Action: Click this option to perform the selected operation.

Procedure

Select an action and click Perform Action to proceed with the selected action.



Note: During Execution you will be asked to confirm your choice. Upon confirmation, you will be informed about the status after few minutes.



Note: It is advisable to use Chrome or IE for H5Viewer, since Firefox has its own memory limitations.

BMC Action Cold Reset: Click this option to perform the BMC cold reset operation.

Below features are only applied to 2U4N models:

In 2U4N, the additional feature is that current node can control another node's power status.

	21-02-25 18:41:18 (UTC+	00:00 GMT)	
BMC Firmware Information 12.50.10 Feb 4 2021 18:23:22 CST CMC/IP 10.127.148	Control on Host	Server	
Host Online POWe	er Actions		0
iick Links • Host is	currently on		
Dashboard	Node Positio	on(Rear View)	
Sensor	Node 3	Node 1	
System Inventory	Node 4	Node 2	
FRU Information			
Logs & Reports	e Device ID	3 •	
Settings	ower Off		
Remote Control	ower On		
Image Redirection	ower Cycle		
Hage Recurrection	ard Reset		
Power Control	CPI Shutdown		
Maintenance			.
Sign out			Perform Action

The various options of Power Control are given below.

Node Device ID: Selected device id to control power status.

Power Off: To immediately power off the server.

Power On: To power on the server.

Power Cycle: This option will first power off, and then reboot the system (cold boot).

Hard Reset: This option will reboot the system without powering off (warm boot).

ACPI Shutdown: This option to initiate operating system shutdown prior to the shutdown.

Perform Action: Click this option to perform the selected operation.

Procedure

Select an action and click Perform Action to proceed with the selected action.



Note: During Execution you will be asked to confirm your choice. Upon confirmation, you will be informed about the status after few minutes.



Note: It is advisable to use Chrome or IE for H5Viewer, since Firefox has its own memory limitations.

2-10 Maintenance Group

This group of pages allows you to do maintenance tasks on the device. The menu contains the following items:

- Backup Configuration
- Firmware Image Location
- Firmware Information
- Firmware Update
- Preserve Configuration
- Restore Configuration
- Restore Factory Defaults
- System Administrator

A sample screenshot of Maintenance is shown below.

A detailed description is given below.



2-10-1 Backup Configuration

This page allows you to select the specific configuration items to be backed up in case of "Backup Configuration".

To open Backup Configuration page, click **Maintenance > Backup Configuration** from the menu bar. A sample screenshot of Backup Configuration page is shown below.



The various fields of Backup Configuration page are given below.

Check All - To select all the configuration list.

Download Config - To download and save the configuration files backup from BMC to client system.

Procedure

- 1. Click **Check All** to backup the selected configuration items. The Backup Configuration page will appear as shown above screenshot.
- 2. Click Download Config to save the backup file to the client system.
- 3. Cick OK to perform the backup action. The Backup file will be saved in the client system.
- 4. Click Cancel to cancel the backup process.

TFTP server configuration

The TFTP server configuration is used for exporting the backup file.



Note: Ensure that no other TFTP servers are enabled, if so remove all other servers with all configuration files. Login as "super" user means "root" user.

Procedure to make the default tftp server

Install the application which is needed.
 >apt-get install xinetd tftp tftpd

 Edit the configuration file for TFTP. >vi /etc/xinetd.d/tftp

Edit the file as below:

```
service tftp
{
protocol = udp
port = 69
socket_type = dgram
wait = ves
user = nobody
server = /usr/sbin/in.tftpd
server args = <DIR to which the file to be access>
disable = no
}
#FOF
#example:server_args = /tftpboot
Note: No arguments to be passed to the server args other than directory.
>vi /etc/xinetd.conf
```

Add to the file:

```
defaults
{
    # Please note that you need a log_type line to use log_on_success and log_on_failure.
    The default is the following:
    # log_type = SYSLOG daemon info
    }
    includedir /etc/xinetd.d
    >vi /etc/inetd.conf
```

ftp stream tcp nowait root /usr/sbin/tcpd /usr/sbin/ in.ftpd tftp dgram udp wait nobody /usr/sbin/tcpd /usr/sbin/ in.tftpd <DIR>

```
3. Restart the server. 
>/etc/init.d/xinetd restart
```

```
Give permission to the file to access by all.
mkdir <DIR>
chmod -R 777 <DIR>
chown -R nobody <DIR>
For Example:
```

mkdir /tftpboot chmod -R 777 /tftpboot chown -R nobody /tftpboot 5. To receive the file you have to touch the file and give permission to access by all users >touch <DIR>/conf.bak >chmod 777 <DIR>/conf.bak

- 6. Even after all this step has been done and still facing error of timeout:
 - a) Check with /etc/xinetd.d/tftp file and uncomment the EOF (Remove the '#' before the EOF alone).
 - b) Restart the server.

2-10-2 Firmware Image Location

This page is used to configure firmware image into the BMC.

To open Firmware Image Location, click Maintenance > Firmware Image Location from the menu bar.

A sample screenshot of Firmware Image Location page is shown below.



The various options of Image Transfer Protocol are given below.

Image Location Type: Type of location to transfer the firmware image into the BMC either Web Upload during Flash or TFTP Server.

TFTP Server Address: Address of the server where the firmware image is stored.

Note: The Server supports both IPv4 and IPv6 addresses

IP Address made of 4 numbers separated by dots as in "xxx.xxx.xxx.xxx".

Each number ranges from 0 to 255.

First number must not be 0.

IPv6 Address made of 8 groups of 4 Hexadecimal digits separated by colon as in

Hexadecimal digits are expressed as lower-case letters.

TFTP Image Name: Full Source path with filename of the firmware image is stored on TFTP Server

TFTP Retry Count: Number of times to be retried in case a transfer failure occurs. Retry count ranges from 0 to 255.

Save: To save the configured settings.

Procedure

- 1. Select the Image Location Type (Web Upload during flash/ TFTP Server).
- 2. If the protocol selected is TFTP, enter the IP address of the server in the TFTP Server Address field
- 3. Enter the TFTP Image Name in the given field

- 4. Enter the TFTP Retry Count value.
- 5. Click **Save** to save the changes.

2-10-3 Firmware Information

This wizard takes you through the process of firmware upgradation. A reset of the box will This page is used to configure the Firmware Information settings.

To open System Administrator page, click **Maintenance > Firmware Information** from the menu bar. A sample screenshot of Firmware Information page is shown below.

	O 2019-04-07 22:44:50 (UTC-11:30 UTC)	2	🕿 🛕 🍳 Sync	🕿 🛦 🍳 Sync 🖸 Refresh
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Firmware Information		₩ Home > Maintena	di Home - Maintenance - Firmise
Quick Links •	0			
	BMCFirmware Information Build fore Jan 28 2019 Build Time 1044-04 CST Firmusare vanian 2.76.10327 BIOSFirmware Information Product Manufacturer Colderte			
 Maintenance Sign out 	Product Name MX32-850-00 Build Date			
	09(03/2018 Firmware version F01			

The various fields of Firmware Information page are given below.

BMC Firmware Information:

Build Date: Describes the Build Date of the active BMC image.

Build Time: Describes the Build Time of the active BMC image.

Firmware version: Describes the Firmware version of the active BMC image.

BIOS Firmware Information:

Product Manufacturer: Describes the hardware manufacturer.

Product Name: Describes the model name of the device.

Build Date: Describes the Build Date of the device.

Firmware version: Describes the BIOS version of the device.

CPLD Firmware Information:

Firmware version: Describes the CPLD Firmware version.

2-10-4 Firmware Update

This wizard takes you through the process of firmware upgradation. A reset of the box will automatically follow if the upgrade is completed or cancelled. An option to Preserve All Configuration is available. Enable it, if you wish to preserve configured settings through the upgrade.



Warning: Please note that after entering update mode widgets, other web pages and services will not work. All open widgets will be closed automatically. If upgrade process is cancelled in the middle of the wizard, the device will be reset.



Note: The firmware upgrade process is a crucial operation. Make sure that the chances of a power or con¬nectivity loss are minimal when performing this operation. Once you enter into Update Mode and choose to cancel the firmware flash operation, the BMC must be reset. This means that you must close the Internet browser and log back onto the BMC before you can perform any other types of operations. Once Firmware upgrade using web is started, the regular IPMI command will not be allowed for safety concern if Enable IPMI Command handling during flashing support is disabled in project configuration.

To configure, choose '**Firmware Image Location**' under Maintenance. To open Firmware Update page, click **Maintenance > Firmware Update** from the menu bar.

A sample screenshot of Firmware Update page is shown below.

		3 A	US - English *	BIOS	Sync	📿 Refresh	1 admin 🗸
EMC Firmware Information 12.58.01 New 4 2021 18:11:43 CST Wat Online	Firmware Update				# Home	> Maintenance :	- Firmware Update
Quick Links	Ø						
# Dashboard	📥 Dump BIOS						
🍪 Sensor	Note:						
System Inventory	Following are the Firmware update methods and components supported in this page. • Dual Firmware update.						
FRU Information	 BIOS update (*.rbu) Easy BIOS Refresh BPB_CPLD update (*.rcu). 						
네 Logs & Reports >	HPM Firmware update supports the following components. BOOT and APP BOS						
Settings	 ME CPLD 						
Remote Control	BIOS Firmware update						
Image Redirection	Select Firmware Image						
O Power Control	Choose File No file chosen						
F Maintenance	Start firmware update						
🖨 Sign out	WARMING/Fission note that after metrining the update mode, the widgits, other web pages and services will not work. All the open widgits will be advancially closed. If the upgradiation is cancelled in the middle of the watant, the device will be reset only for BIC BOOT_and APP components of Firmware.						

The various fields of Firmware Update are as follows:

- Preserve all Configuration: To preserve all configuration.
- New signimage Public Key: To select the signimage Public Key to be uploaded.
- Edit Preserve Configuration: To modify the Preserve status settings.
- Select Firmware Image: To select the Firmware image to be uploaded.
- Start Firmware Update: To start the Firmware Update.

This wizard takes you through the process of AMI based firmware upgradation. The protocol information to be used for firmware image transfer during this update is as follows:



Note: All configuration items will be preserved/overwrite as default during the restore configuration operation.

Procedure

- 1. Click Preserve all Configuration to preserve all configuration.
- 2. Click Browse to select firmware image. The Firmware update undergoes the following steps:
 - a) Closing all active client requests
 - b) Preparing Device for Firmware Upgrade

c) Uploading Firmware Image



Note: A file upload pop-up will be displayed for http/https but in the case of tftp files, the file is automatically uploaded displaying the status of upload.

- d) Browse and select the Firmware image to flash and click Upload.
- e) Click **Start firmware update** start the Firmware Update. A warning message will be prompted you to proceed further.
- f) Click OK to start the Firmware Update. The sample screenshot is shown below
- g) Verifying Firmware Image



If flashing is required for all images, please select the following checkbox:

Name	Existing version	Uploaded version	~
boot	2.4.000000	2.4.000000	~
conf	2.4.000000	2.4.000000	~
conf	2.4.000000	0.0.	~
root	2.4.000000	2.4.000000	~
osimage	2.4.000000	2.4.000000	~
www	2.4.000000	2.4.000000	~
testapps	2.4.000000	2.4.000000	~
ast2500e	0.1.000000	0.1.000000	~

If only few module versions are different, those modules will be flashed.



Note: Only selected sections of the firmware will be updated. Other sections are skipped. Before starting flash operation, you are advised to verify the compatibility between image sections.

		-04-08 14:27:36 (UTC-11:30 UTC)					
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Firmwa	re Update					
uick Links			0				
Pashboard	1. The p	rotocol information to be used for firm	ware image transfer during				
ensor	under M	this update is as follows. To configure, choose 'Firmware Image Location' under Maintenance.					
System Inventory >	2. Firmw will inte should,	Firmware upgrade is in process. Refreshing this page or Closeing this page will interrupt this process and will likely cause the BMC to not work as it should, so it is highly recommended that you do not continue with the					
Logs & Reports	Protoco	refresh or close Page.					
ettings	Hedete	Protocol type: HillP					
Remote Control	Update	Type: BMC.					
Image Redirection							
Power Control	Description of the Constant and Table of the second s						
Maintenance	Preserve all Configuration. This will preserve all the configuration settings during the firmware update - irrespective of the individual items						
🖻 Sign out	marked as preserve/overwrite in the table below. All configuration items below will be preserved as default during the restore						
	configurat Preserve s	tion operation. Click "Edit Preserve Cor Itatus settings.	nfiguration" to modify the				
	Edit Press	erve Configuration					
	S.No	Preserve Configuration Item	Preserve Status				
	1	SDR	Overwrite				
	2	FRU	Overwrite				
	3	SEL	Overwrite				
	4	IPMI	Overwrite				
	5	NETWORK	Overwrite				
	6	NTP	Overwrite				
	7	SNMP	Overwrite				
	8	SSH	Overwrite				
	9	KVM	Overwrite				
	10	AUTHENTICATION	Overwrite				
	11	SYSLOG	Overwrite				
	12	WEB	Overwrite				
	13	REDFISH	Overwrite				
	Sun Jan	27 15:13:43 2019					
	New sig	nImage Public Key					
	Cho	ose File No file chosen	🖺 Upload				
	Select Fir	mware Image					
	Choos	se File No file chosen					
		Start firmware upd	late				

- h) Flashing Firmware Image.
- i) Resetting the image. The sample screenshot of Firmware update is as shown below.

Only the selected se	ctions will be updated:		
Section Name	Existing version	Uploaded version	
boot	2.4.000000	2.4.000000	Message from webpage
cont	2,4,000000	2.4.000000	Firmware reset has been called. Close the current session, and open a
conf	2,4,000000	2.4.000000	A new session after a couple of minutes.
root	2,4.000000	2.4.000000	
osimage	2.4.000000	2.4.000000	a
www	2,4,000000	2.4.000000	Set of the
ast2500e	1.0.103227	1.0.103227	



Note: The Firmware Update page will be disabled and you will not be able to perform any other tasks until firmware upgrade is completed and the device is rebooted. You can now follow the instructions presented in the subsequent pages to successfully update the card's firmware. The device will reset if update is canceled. The device will also reset upon successful completion of firmware update.

2-10-5 Preserve Configuration

This page allows the user to configure the preserve configuration items, which will be used by the Restore factory defaults to preserve the existing configuration without overwriting with defaults/ Firmware Upgrade configuration,

To open Preserve Configuration page, click **Maintenance > Preserve Configuration** from the menu bar.

A sample screenshot of Preserve Configuration page is shown below.

	O 2019-04-07 22:47:15 (UTC-11:30 UTC)	2	🛦 🍳 Sync 🖸 Refresh 💄 admin 🗸
EMC Firmware Information 2.76.103227 Jan 28 2019 10:04634 CST Host Online	Preserve Configuration		\boldsymbol{W} Home \geq Maintenance \geq . Preserve Configuration
Quick Links •	Ø		
# Dashboard	Click here to go to Firmware Update or Restore Factory		
🚳 Sensor			
System Inventory	Check All		
FRU Information	SDR		
🕍 Logs & Reports >	FRU		
Ø Settings	SEL		
Control	ІРМІ		
Image Redirection	Network		
O Power Control	NTP		
✗ Maintenance	SNMP		
🕒 Sign out	SSH		
	КУМ		
	Authentication		
	Syslog		
	Web		
	Redfish		
	🖹 Save		

The various fields of Preserve Configuration are as follows:

Click here to go to Firmware Update or Restore Configuration: This link will redirect to the Firmware Update or Restore Configuration page which needs to be preserved.

Check All: To check the entire configuration list.

Save: To save the current changes.



Note: This configuration is used by Restore Factory Defaults process.

Files Preserved SDR

Following files will be preserved:

SDR.dat: This file contains the sensor data record information that is used in IPMI. **Dependency Configurations** - NIL

FRU

Following files will be preserved:

FRU.bin: This file contains the logical field replaceable unit data that are used by IPMI. **Dependency Configurations** - SDR

FRU

Following files will be preserved: **FRU.bin**: This file contains the logical field replaceable unit data that are used by IPMI. **Dependency Configurations** - SDR

SEL

Following files will be preserved when Delete SEL reclaim space is disabled: **SEL.dat**: This file contains the system event logs that are being logged by the IPMI. Following files will be preserved when Delete SEL reclaim space is enabled: **Selreclaiminfo.ini** - The file contains the SEL repository information. **SEL folder** - This folder contains the multiple files of event logs. **Dependency Configurations** - IPMI

IPMI

The following files are preserved in IPMI configuration:

IPMI.conf: This file contains the IPMI configurations such as SEL rep size, SDR rep size, interface specific, enable/disable, Primary/Secondary, IPMB Bus number etc.

Dependency Configurations - NIL

Network

To save network settings related with IPMI (LAN IP or DHCP configuration), select "IPMI" and "Network" options simultaneously. After restore configuration, the Network Configuration will be preserved successfully. Following files will also be preserved:

dhcp.conf: This file is to configure the host name in the FQDN format.

dns.conf: This file is used to configure the DNS registration method and DNS server for the particular interface, hostname: This file is used to store the Hostname of the BMC.

hostname.conf: This file is used to configure the host name creation method Manual/Automatic for the BMC.

Vlaninterfaces: This file helps to enable the vlan interface for the particular LAN interface vlansetting.conf: This file is to store the vlan ID and Vlan priority for the particular VLAN interface entry.

bond.conf: This file is to enable the bond interface for the specified LAN interfaces.

Interfaces: This file is to configure the IP/IPV6 addresses for the LAN interface using static/ DHCP method.

activeslave.conf: This file is to configure the active interface for the specified bond interface. This file depends on bond.conf.

hosts: This file is used to store the host name to map the IP address.

hosts.allow: This file contains the list of hosts that has permission to access the system **hosts.deny**: This file contains the list of host that does not allow accessing the system **resolv.conf**: This file is used to store the nameserver and domain name for hostname registration.

dhcp6c-script: This file is used to configure the domain name, DNS server IPv6 address and NTP address.

dhcp6c.conf: This file is to configure the IPv6 parameters for the DHCPv6 clients.

ncsicfg.conf: This file is to configure the NCSI related configurations.

nsupdate.conf: This file is to configure the channel ID, package ID for the NCSI interface.

phycfg.conf: This file is to configure the link speed, duplex and MTU value for the specified interface.

dhcp.preip_4: This file is to store the pre IPv4 address. This file will be created at runtime.

dns.conf: This file is used to configure the DNS registration method and DNS server for the particular interface.

hostname: This file is used to store the Hostname of the BMC.

hostname.conf: This file is used to configure the host name creation method Manual/Automatic for the BMC.

Vlaninterfaces: This file helps to enable the vlan interface for the particular LAN interface

vlansetting.conf: This file is to store the vlan ID and Vlan priority for the particular VLAN interface entry.

bond.conf: This file is to enable the bond interface for the specified LAN interfaces.

Interfaces: This file is to configure the IP/IPV6 addresses for the LAN interface using static/ DHCP method.

activeslave.conf: This file is to configure the active interface for the specified bond interface. This file depends on bond.conf.

hosts: This file is used to store the host name to map the IP address.

hosts.allow: This file contains the list of hosts that has permission to access the system

hosts.deny: This file contains the list of host that does not allow accessing the system

resolv.conf: This file is used to store the nameserver and domain name for hostname registration.

dhcp6c-script: This file is used to configure the domain name, DNS server IPv6 address and NTP address.

dhcp6c.conf: This file is to configure the IPv6 parameters for the DHCPv6 clients.

ncsicfg.conf: This file is to configure the NCSI related configurations.

nsupdate.conf: This file is to configure the channel ID, package ID for the NCSI interface.

phycfg.conf: This file is to configure the link speed, duplex and MTU value for the specified interface.

dhcp.preip_4: This file is to store the pre IPv4 address. This file will be created at runtime.

NTP

Following files will be preserved:

ntp.conf: This file contains the NTP dameon protocol configuration parameters such as synchronization sources, nodes and other related information

ntp.stat: This file contains the auto or manual network type protocols

adjtime: This file contains the time to synchronize the system clock

Localtime: This file is the system link to the file local time or to the correct time zone in the system timezone directly.

Dependency Configurations - IPMI

SNMP

Following files will be preserved:

snmp_users.conf: This file contains the SNMP user configurations such as user name and password encryption mechanism for the specific users.

snmpcfg.conf: This file contains the SNMP users privilege levels such as ro user and rw user. Dependency Configurations - NIL

SSH

Following files will be preserved:

sshd_config: This file contains the keyword argument pairs of configurations such as Address family, Accept Env, Allow, users, authorized key files etc.

ssh_host_dsa_key, ssh_host_rsa_key: These files contain the private parts of the host keys. ssh_host_dsa_key.pub, ssh_host_rsa_key.pub: These files contain the public parts of the host keys.

Dependency Configurations - NIL

KVM

Following files will be preserved:

vmedia.conf: This file contains the modes of media such as cd,fd,hd and enable and disable flags for Imedia, rmedia and sd servers.

stunnel.conf: This file contains the information about the stunnel configuration. It will also contain advisor and media server's secure port if secure connection is enabled.

usermacro.conf: This file saves the user defined macro from the jviewer.

rmedia.conf: This file contains the image name and the remote machine information like IP address, user name, password, domain name and share type.

Dependency Configurations - NIL

Authentication

Following files will be preserved:

activedir.conf: This file contains the configurations such as sslenable, timeout, racdomain, adtype, adfilterdc1, adfilterdc2, adfilterdc3, username, password, and rolegroup information such as name domain and privileges.

openLdapGroup.conf: This file contains the oprnm ldap role group information such as name domain and privilege.

nsswitch.conf: This file contains the sources to obtain the name service information in the range of categories and in what order

pam_withunix: This file contains the PAM Order of modules such as IPMI,LDAP, RADIUS and UNIX.

pam_wounix: This contains the PAM Order of modules such as IPMI, LDAP and RADIUS.

group: This file contains the Linux group. It stores the group information or defines the user group information in Linux.

passwd: This file contains the user login information for the Linux system

shadow: This file contains the encrypted password information for the clients.

Idap.conf: This file contains the Idap server configuration details such as bindn, binpw, pam_ password, nss_reconnect_tries, port, port secondary, host, host secondary.

radius.conf: This file contains the radius server IP address, port number, secret, timeout, privilege etc.

Dependency Configurations – NIL

Syslog

System Event Log

Web Web Settings

Extlog Audit Log & System Log

Redish

Redfish Audit Log

Procedure

- 1. Click **Firmware Update or Restore Configuration** link to view Firmware Update or Restore Configuration page accordingly.
- 2. Select the required Preserve Configuration items by either choosing the items individually by selecting the appropriate check boxes or by selecting all or none using **Check All**.
- 3. Click **Save** to save the changes.

2-10-6 Restore Configuration

This page allows you to restore the configuration files from the client system to the BMC. To open Restore Configuration page, click **Maintenance > Restore Configuration** from the menu bar. A sample screenshot of Restore Configuration page is shown below.

		🕿 🛕 🔍 Sync 🖸 Refresh 🏦 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Restore Configuration	# Home - Maintenance - Restore Configuration
Quick Links 💌	0	
# Dashboard	Config File	
🙆 Sensor	.	
System Inventory	19 Save	
FRU Information		
Lali Logs & Reports		
Settings		
🖵 Remote Control		
Image Redirection		
C Power Control		
🗲 Maintenance		
🕒 Sign out		

The various fields Restore Configuration page are given below.

Config File - This option is used to select the file which was backup earlier.

Upload - To upload the backup file to restore the backup files.

Procedure for Restore Configuration:

- 1. Click Browse to select the configuration file that needs to be backup and used to restore the configuration, when needed.
- Click Upload to restore the backup files. The Restore Configuration page will appear as shown below.



3. Click OK to upload the new configuration file and restore.
2-10-7 Restore Factory Defaults

In BMC Web GUI, this option is used to restore the factory defaults of the device firmware. This section lists the configuration items that will be preserved during restore factory default configuration.



Warning: Please note that after entering restore factory widgets, other web pages and services will not work. All open widgets will be closed automatically. The device will reset and reboot within few minutes.

To open Restore Factory Defaults page, click **Maintenance > Restore Factory Defaults** from the menu bar. A sample screenshot of Restore Factory Defaults page is shown below.

	O 2019-04-07 22:50:10 (UTC-11:30 UTC)	🗃 🛕 🍳 Sync 🖸 Refresh 💄 admin 🗸
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:04 CST Host Online	Restore Factory Defaults	# Hame - Maintenance - Restore Factory Defaults
Quick Links •	Ø	
n Dashboard	The following checked configurations will be preserved through the restore operation. You can make changes to the list in the preserve configuration page.	
System Inventory	SDR	
FRU Information	FRU	
🕍 Logs & Reports 🔹 🔸	SEL	
 Settings 	IPMI	
🖵 Remote Control	Network	
Image Redirection	NTP	
O Power Control	SNMP	
🗲 Maintenance	SSH	
🕒 Sign out	KVM	
	Authentication	
	Syslog	
	Web	
	Redfish	
	🖺 Save	

Procedure

- 1. Click Preserve Configuration to redirect to Preserve Configuration page, which is used to preserve the particular configuration not to be overwritten by the default configuration.
- 2. Click Restore Factory Defaults to restore the factory defaults of the device firmware

2-10-8 System Administrator

This page is used to configure the System Administrator settings.

To open System Administrator page, click **Maintenance > System Administrator** from the menu bar. A sample screenshot of System Administrator page is shown below.

	O 2019-04-07 22:50:35 (UTC-11:30 UTC)	🖀 🔺 🍳 Sync 🖸 Refresh 🎍 adm	nin •
BMC Firmmarc Information 2,76,105227 Jan 28 2019 10044394 CST Host Online	System Administrator(BMC Debug console)	W Home > Maintenance > System Administrator(BMC Debug conso W Home > Maintenance > System Administrator(BMC Debug conso	le)
Quick Links 🔻	Ø		
# Dashboard	Username		
🙆 Sensor	sysadmin		
System Inventory	Enable User Access		
FRU Information	Change Password		
Lall Logs & Reports →	Password		
Settings	Confirm Password		
🖵 Remote Control			
Image Redirection	🔊 Save		
O Power Control			
✗ Maintenance			
🕒 Sign out			

The various fields of System Administrator page are given below.

Username: Username of System Administrator is a read only field.

Enable User Access: To enable user access for system administrator.

Change Password: To change the user's password.



Note: This field will not allow more than 64 characters.

Password must be at least 8 characters long and blank space is not allowed.

Save: To save the new configuration for system administrator.

Procedure

- 1. Check Enable User Access to enable user access for system administrator..
- Enable Change Password option to change the user password. This action enables the password fields.
- 3. Enter the new password in the **Password** field.
- 4. Re-enter the password in the Confirm Password field.
- 5. Click Save to save the changes.

2-10-9 Sign Out

To log out from the Web GUI, click the admin on the top right corner of the screen. A sample screenshot of admin option is shown below.



Click **Sign Out** to perform log out from the Web GUI. A Warning message will be prompted you to proceed further, click **OK** to log out else **Cancel** to retain the Web GUI.