GIGABYTE[™]

Gigabyte Server Management Console

User's Guide

Rev. 1.0

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Documentation Classifications

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

For detailed product information, carefully read the User's Manual.

For More Information

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Chapter 2 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.

Username
Password
🗆 Remember Username
Sign me in
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: password

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.

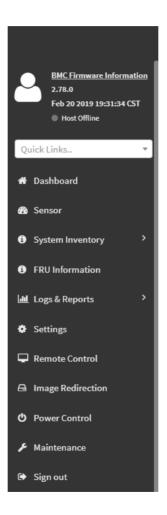
Warning: Click to view the warning messages.

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:



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:

			i	🖀 🔺 📀 Sync	CRefresh 💄 admin 🗸
EMAC Firmware Information 2.78.0 Feb 20 2019 19:31:34 CST Host Office	Dashboard Control Panel				₩ Home > Dashboard
Quick Links	16 d 9 ^{hrs}	656	15		
希 Dashboard	BMC Up Time	Pending Deassertions	Access Logs		
📾 Sensor		More info O	More info 🛇		
System Inventory	Today (o) Details	30 days (46) Details	 Sensor Monitoring 		
FRU Information			All sensor		
🕍 Logs & Reports 🔷					
Settings			Currentiy recovered		
Remote Control	No events for today	system_event 31 events			
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.

	2000-01-05 09:34:16 (UTC+00:00 UTC)			M	₽	 Sync 	C Refresh	👤 admin 🗸
EMC: Firmware Information 2.78.0 Feb 20 2019 19:31:34 CST Host Office	Sensor Reading Live reading of all	sensors					₩ Home > :	Sensor Reading
Quick Links 🔻	Critical Sensors (0)							
# Dashboard		Oall the	eshold sensors are normal					
🍄 Sensor								_
System Inventory	Discrete Sensor States (4)							
FRU Information	Sensor Name		State					
Logs & Reports	↔ CPU0_Status		Processor Presence Detected					
 Settings 	↔ CPU1_Status		Processor Presence Detected					
Remote Control	SEL .		No state defined					
Image Redirection	Watchdog		No state defined					
O Power Control	Normal Sensors (0)							
✗ Maintenance		ON on	ormal threshold sensors!					
🕒 Sign out								
	Disabled Sensors (59)							
	* CPU0_TEMP	* CPU1_TEMP	X DIMMG0_TEMP		X DIM	MG1_TEMP		
	X DIMMG2_TEMP	# DIMMG3_TEMP	× MB_TEMP1		× MB_	TEMP2		
	X CPU0_DTS	* CPU1_DTS	X VR_VCORE_P0_TEMP		× VR_	VCORE_P1	_TEMP	
	X VR_DIMMG0_TEMP	X VR_DIMMG1_TEMP	X VR_DIMMG2_TEMP		× VR_	DIMMG3_TI	EMP	
	XVR_VSOC_P0_TEMP	XVR_VSOC_P1_TEMP	# P_12V		X P_5	V		
	X P_3V3	¥ P_5V_STBY	# P0_VDDCR_SOC		× P_V	BAT		
	¥ P0_VDDCR_CPU	# P1_VDDCR_CPU	# P0_VDDIO_ABCD		X P0_	VDDIO_EFG	ЗH	
	¥ P1_VDDIO_ABCD	# P1_VDDIO_EFGH	# P1_VDDCR_SOC		X P0_	VDD_18		
	¥ P1_VDD_18	XVR_VCORE_P0_VIN	X VR_VCORE_P0_VOUT		× VR_	VCORE_P1	VIN	
	XVR_VCORE_P1_VOUT	XVR_DIMMG0_VIN	X VR_DIMMG0_VOUT		× VR_	DIMMG1_VI	IN	
	XVR_DIMMG1_VOUT	¥VR_DIMMG2_VIN	X VR_DIMMG2_VOUT		× VR_	DIMMG3_VI	IN	
	¥ VR_DIMMG3_VOUT	* VR_VSOC_P0_VIN	X VR_VSOC_P0_VOUT		× VR_	VSOC_P1_\	/IN	
	XVR_VSOC_P1_VOUT	* VR_VCORE_P0_IOUT	X VR_VCORE_P1_IOUT		× VR_	DIMMG0_IC	DUT	
	XVR_DIMMG1_IOUT	¥ VR_DIMMG2_IOUT	X VR_DIMMG3_IOUT		× VR_	VSOC_P1_I	OUT	
	XVR_VSOC_P0_IOUT	* CPU0_FAN	K CPU1_FAN					

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.

Sensor o	detail All information about this sensor		
			0
□CPU0_	Status Sensor Information		
-		0x808)
		Upper Non-Recoverable	NA
		Upper Critical	NA
-		Upper Non-Critical	NA
NA		Lower Non-Critical	NA
		Lower Critical	NA
		Lower Non-Recoverable	NA
0.00 -			Change Thresholds
	Time (HH:MM:SS)		



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)

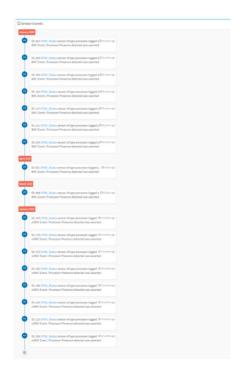
• Upper Non-Critical (UNC)

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 Sensor Events

The Sensor Events page displays information about events that have triggered the system's sensor. A sample screenshot of Sensor Events page is shown below.

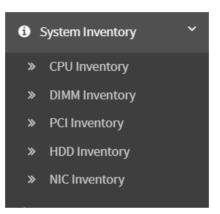


2-3 System Inventory

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.

	O 2019-04-08 12:35:44 (UTC+00:00 UTC)	🐷 🛕 🔍 Sync 🙄 Refresh 🤱 admin +
BBC.Climenaer_information 2.715.000227 Jano 28 2009 JB:MADH CST 0 Head Online	CPU Inventory	# Hame > CPU Inventory
QuickLinks. •		Collegne All Download SMBIOS file
 Bashboard 		
Semor	 CPU1: Intel(R) Xeon(R) E-21805 CPU @ 3.805Hz 	(Processor Presence Detected)
• System Inventory	Detail Information for CPU Cache Information for CPU	
FRU Information	T Cache internation for CPU	
🕍 Logs & Reports 🔷 👌		
O Settings		
Remote Control		
Gi Image Redirection		
O Power Control		
🗲 Maintenance		
\varTheta Signout		

=		-08 12:36:40 (UTC+0	0:00 UTC)					12	4	○ Sync	C Refresh	💄 admin
EMC: Firmware: Information 2.76.103227 Jan 28 2019 10:44:04 CST Not Online	CPU Inver	ntory						_			n¥ Home > ∣	
Quick Links								Collapse	a III a	Expand All	Download Si	MBIOS file
# Dashboard												
🚳 Sensor	- O CPU1 : In	itel(R) Xeon(R) E-218	36G CPU @ 3.80	GHz						e	ocessor Presence	Detected
System Inventory	 Detail I 	nformation for CPU										
FRU Information	Manufacture	r	Family	External Clock	Max Speed	Speed	Core Count	Core	Enabled		Thread Count	
네 Logs & Reports >	Intel(R) Corp	oration	Xeon	100.000 MHz	8.300 GHz	4.257 GHz	6	6			12	
Settings												
Remote Control	 Cache I 	nformation for CPU										
Image Redirection	Level	Maximum Size		Installed Size	Туре	Write Back	Policy	En	or Corre	ction Type		
O Power Control	1	384 KB		384 KB	Unified	Write Back		Pa	rity			
	2	1536 KB		1536 KB	Unified	Write Back		Sir	ngle-bit E	oc		
Sign out	3	12288 KB		12288 KB	Unified	Write Back		Mu	ilti-bit EC	c		

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.

	© 2019-04-08 12:34:13 (UTC+00:00 UTC)	a	s A	• Sync	C Refresh	💄 admin 🗸
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST Most Online	DIMM Inventory				₩ Home > D	IBM Inventory
Quick Links		Collap	ise All	Expand All	Download S	
# Dashboard						0
🍪 Sensor	Memory Attributes					
System Inventory >	Individual Memory Details					
FRU Information						
Mal Logs & Reports						
 Settings 						
Remote Control						
El Image Redirection						
O Power Control						
🖌 Maintenance						
🖶 Sign out						

		0		2	▲ Osync	CRefresh 💄 admin 🗸
BMC Firmware information 2.76.100227 Jan 28 2019 10:44:04 CST • Nout Online	DIMM Inventory					Home > DINH Inventory
Quick Links				Collapse Al	Expand All	Download SMBIOS file
# Dashboard						0
de Sensor	Memory Attributes					
System Inventory >	Maximum Capacity	Installed Capacity	Slots Available	Slots Used	Error Correction	
FRU Information	64 GB	64 GB	4	4	Single-bit ECC	
iaal. Logs & Reports →	 Individual Memory Details 					
 Settings 	+ O DIMM_P0_A0 : Samsung M391A2A	(1001) (00				(Presence Detected)
Remote Control	+ O DIMM_P0_A1 : Samsung M391A2P					Presence Detected
E Image Redirection	+ O DIMM_P0_B0 : Samsung M391A2					(Presence Detected)
O Power Control	+ O DIMM_P0_81 : Samsung M391A2A					Presence Detected
🖌 Maintenance						
🕞 Sign out						

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 2019-04-08 12:34:47 (UTC+00:00 UTC)	N	▲	♦ Sync	C Refresh	1 admin -
BMC Firmware information 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	PCI Inventory				₩ Home >	PCI Inventory
Quick Links		Collapse A	II E	spand All	Download S	
# Dashboard						0
💼 Sensor	+ On Board					
System Inventory >						
FRU Information						
iaal. Logs & Reports →						
 Settings 						
Remote Control						
El Image Redirection						
O Power Control						
🗲 Maintenance						
🕒 Sign out						

	2019-04-08 12:38:31 (UTC+00:00 UTC)		3 A	Sync 🖸 Refresh 💄 admin 🗸
DMC Firmware Information 2.76.103227 Jae 28 2019 10:44:04 CST Image: Most Online	PCI Inventory		Collapse Ali	Home > PCI Inventory Expand All Download SMBIOS file
Quick Links 🔻			conapse An	Expand Air Download SMDIOS IIIE
# Dashboard	- On Board			U
🍪 Sensor				
System Inventory	 I210 Gigabit Network Connection 			
FRU Information	Manufacturer	Туре	Vendor ID	Device ID
Lags & Reports >	Intel Corporation	Ethernet controller	0x8085	0x1533
O Settings				
Remote Control	 I210 Gigabit Network Connection 			
Image Redirection	Manufacturer	Туре	Vendor ID	Device ID
O Power Control	Intel Corporation	Ethernet controller	0x8085	0x1533
F Maintenance				
🕪 Sign out	 ASPEED Graphics Family 			
	Manufacturer	Туре	Vendor ID	Device ID
	ASPEED Technology, Inc.	VGA compatible controller	0x1A03	0x2000
	 AST1150 PCI-to-PCI Bridge 			
	Manufacturer	Туре	Vendor ID	Device ID
	ASPEED Technology, Inc.	PCI bridge	0x1A03	0x1150

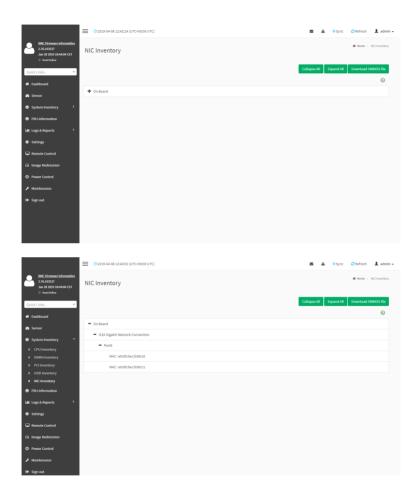
2-3-4 HDD Inventory

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.

	3019-04-08 12:41:45 (UTC+00:00 UTC)	2	▲	O Sync	C Refresh	1 admin +
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Wood Define	HDD Inventory				₩ Home > H	DD Inventory
Quick Links		Collapse	All	Expand All	Download St	IBIOS file
# Dashboard						0
🙆 Sensor						
System Inventory >						
FRU Information						
🕍 Logs & Reports 🔹 🔸						
Settings						
Remote Control						
Image Redirection						
O Power Control						
F Maintenance						
før Sign out						

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.



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.

2.78.0 Feb 20 2019 19:31:34 CST	FRU Field Replacable Units				₩ Home >
Host Offine					(
ick 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	1
Logs & Reports >	Chassis Information Area 1 Format Version	Board Information Area Format Version	1	Product Information Area Format Version	1
Remote Control	Chassis Type Main Server Chassis	Language	0	Language	0
	Chassis Part Number 01234567	Manufacture Date Time	Fri Jan 7 00:00:00 2000	Product Manufacturer	GIGABYTE
mage Redirection	Chassis Serial Number 01234567890123456789AB	Board Manufacturer	GIGABYTE	Product Name	MZ52-G40-00
Power Control	Chassis Extra	Board Product Name	MZ52-G40-00	Product Part Number	000000000001
faintenance		Board Serial Number	S1895700015	Product Version	0100
iign out				Product Serial Number	01234567890123456789A
		Board Part Number	123456789AB	Asset Tag	01234567890123456789A
		FRU File ID		FRU File ID	
		Board Extra	NULL	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

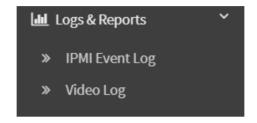
- Board Information Area Format Version
- Language
- Manufacture Date Time
- Board Manufacturer
- Board Product Name
- Board Serial Number
- Board Part Number
- FRU File ID
- Board Extra

2-5 Logs & Reports

The Logs & Reports page displays the following information:

- IPMI Event Log
- 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.

		CRefresh 💄 admin 🗸
BBC Firmware Information 2.76.103227 Jan 28 2019 3044.04 CST Host Creline	Event Log situation went logs	₩ Home > EventLog
Quick Links	Filter by Date: 1370-54-51 0000 0 - 2013-64-68 12:26 0 Filter by type Al Events • Al Sensors @ Charle beneficings & Allowed Logs & Allowed &	Page 1 v
FIRU Information	Event Log 9 (0-9)	
 IPMIEventLog VideoLog 	ID: 9 Unknown sensor of type os, boot logged a blos: boot completed - boot device not specific was asserted OH days app	
 Settings Remote Control 	D: a Unknown sensor of type system_event logged a blos : Timestamp Clock Synch was asserted @4 6ays ago	
Image Redirection Power Control	January 2000 ID: 7 Unknown sensor of type system_event logged a bios : Timestamp Clock Synch was asserted @19 years app	
 ✔ Haintenance Ø Sign out 	UD: 6 Unknown sensor of type system_event logged a bios : OEM System Boot Event was asserted OUS years approximately a set of the system sensor of type system.	
	Dt 5 PS1_Status sensor of type power_supply logged a BMC Event : Presence detected was asserted Ot3 years app	

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

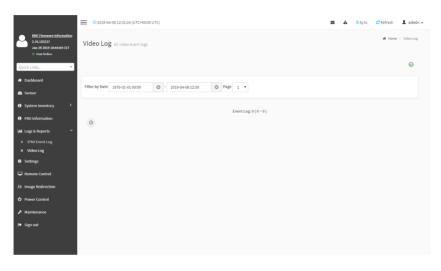
- 1. From the Filter By Date field, select the time period by **Start Date** and **End Date** using Calendar for the event categories.
- 2. From the **Filter By Type** field, select the **Type** of the event and **Sensor** name to view the events for the date. The events will be displayed based on the 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 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.



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.

			2	i 🔺 OSync 🖸 Refresh 💄 admin
EMC: Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Meat Cerline	Settings Configure BMC options			₩ Home > Settings
Quick Links	Captured BSOD	Date & Time	External User Services	KV/M Mouse Setting
Sensor System Inventory		A	*	1Ē
System Inventory FRU Information	Log Settings	Media Redirection Settings	Network Settings	PAM Order Settings
Led Logs & Reports →	Platform Event Filter	Services	SMTP Settings	SSL Settings
Remote Control Image Redirection	System Firewall	Les User Management	Video Recording	Fan Profile
Power Control Maintenance	0			
 Maintenance Sign out 	Power Consumption			

A detailed description of the Settings menu is given below.

2-6-1 Date & Time

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

	© 2019-04-08 12:55:45 (UTC+00:00 UTC)	🖀 🔺 🍳 Sync 😂 Refresh 👤 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 30:44:04 CST 9 Hoat Online	Date & Time	₩ Home > Settings > Date&Time
Quick Links	Note: The TimeZone settings will be reflected only after saving the settings.	
n Dashboard	Configure Date & Time	0
Sensor System Inventory	UTC:11:00 *	2019-04-08 01:25:44 (UTC-11:30 UTC)
FRU Information	✓ Automatic NTP Date & Time	
Logs & Reports	Primary NTP Server	Secondary NTP Server
 Settings 	pool.ntp.org	time.nist.gov
Remote Control		
A Image Redirection		E Save
O Power Control		
✗ Maintenance		
🕪 Sign out		

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.
- 2. 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.

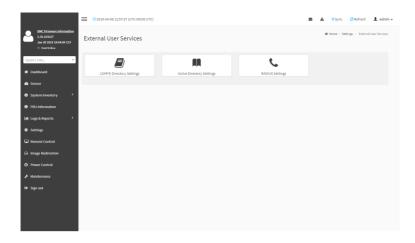
2-6-2 External User Services

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.



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)			Z A	♦ Sync 🛛 Refre	h 💄 admin 🗸
BHC: Firmware Information 2.76.100227 Jan 28 2019 10.44.04 CST Most Online	LDAP/E-Directory Settings		🖷 Home -	- Settings > External (lser Settings ≻ LDAP(1	Directory Settings
Quick Links •						
# Dashboard	General Settings	Role Groups				
Sensor System Inventory						
System inventory FRU Information						
Jall Logs & Reports →						
• Settings						
Remote Control						
EM Image Redirection						
O Power Control						
🗲 Maintenance						
🕞 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.

		© 2019-04-07 18:37:25 (UTC-11:30 UTC)	
BMC Firmware inform 2.76.103227 Jan 28 2019 10.44.04 Not Celine		General LDAP Settings	
Quick Links	¥.		0
# Dashboard		Enable LDAP/E-Directory Authentication	
📾 Sensor		Encryption Type Image: Solution Type Image: Solution Start TLS	
System Inventory	>	Common Name Type	
FRU Information		IP Address	
🕍 Logs & Reports	,	Server Address	
Settings			
Remote Control		Port 389	
El Image Redirection		Bind DN	
O Power Control		E.g., cn=admin,ou=login,dc=domain,dc=com	
F Maintenance		Password	
🕒 Sign out		Whitespace not allowed	
		Search Base E.g., ou=login,dc=domain,dc=com	
		Attribute of User Login	•
			Save
			E 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.

	© 2019-04-07 18:47:54 (UTC-11:30 UTC)			s Δ ^O O Sync C Refresh L admin →
BHC Firmware Information 2.76.103227 Jan 28 2029 18:44:04 CST Host Online	Role Groups		₩ Home > Settings > External	User Settings > LDAPJE-Cirectory Settings > Role Groups
Quick Links. * Dashboard Sensor	None	None	None	None
System Inventory System Inventory FRU Information Logs & Reports	None			
Settings Remote Control Image Redirection Power Control				
Fower Control Maintenance Sign out				

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



Note: Role Group Name is a string of255 alpha-numeric characters. Special symbols hyphen and underscore are allowed. 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.

				M	∆³ o Sync	C Refresh	1 admin 🗸
EXAC: Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Heat Online	Active directory Settings		*	Home > Settings >	External User Settir	gs > Active dire	tory Settings
Quick Links 💌	General Settings	Role Groups					
🚳 Sensor							
System Inventory >							
FRU Information							
🕍 Logs & Reports 🔶							
Settings							
Remote Control							
End Image Redirection							
O 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.

		🕿 🛕 🔍 Sync 🛛 Refresh 🏦 admin 🛩
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Heat Online	General Active Directory Settings	$\label{eq:setting} \textbf{K} \mbox{ Home} \times \mbox{ Settings } \times \mbox{ Active directory Settings } \times \mbox{ General Active Directory Settings } \\$
Quick Links *	0	
# Dashboard	Enable Active Directory Authentication	
📾 Sensor	Secret Username	
System Inventory		
FRU Information	Secret Password	
Lad Logs & Reports	User Domain Name	
Settings		
Remote Control	Domain Controller Server Address 1	
Image Redirection		
O Power Control	Domain Controller Server Address 2	
🗲 Maintenance	Domain Controller Server Address 3	
🕒 Sign out		
	😫 Save	

 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". 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.

			1	≝ 🗚 OSync 😋 Refresh 🏦 admin →
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	Role Groups		W Home > Settings > Extern	al User Settlings $>$ Active directory Settlings $>$ Role Groups
Quick Links	None	None	None	None
System Inventory FRU Information Logs & Reports	None			
Settings Remote Control Image Redirection				
 Power Control Maintenance Sign out 				
Solution				

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.

	O 2019-04-07 19:04:39 (UTC-11:30 UTC)
BMC Firmware information 2.76.103227 Jan 28 2019 10:44:94 CST Most Online	Role Groups
Quick Links	0
🖷 Dashboard	Group Name
🚯 Sensor	
System Inventory	Group Domain eg., MyDomain.com
FRU Information	Group Privilege
laaL Logs & Reports →	······································
 Settings 	KVM Access
Remote Control	VMedia Access
🖨 Image Redirection	🖾 Save
O Power Control	
🗲 Maintenance	
🕒 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.



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

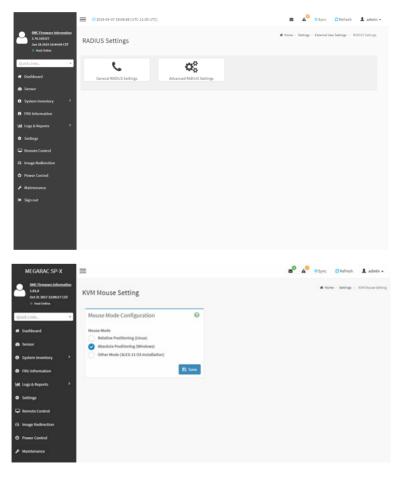
- 1. In the Role Groups Page, select the row that you wish to delete
- 2. Click Delete Role Group.

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.



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



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.
- Click Advanced RADIUS Settings. This opens the Radius Authorization window as shown below.

	2019-04-07 19:09:09 (UTC-11:30 UTC)		≅ A ⁰	O Sync	C Refresh	1 adm
BMC Firmware Informatic 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	Advanced RADIUS Settings	₩ Home > Settings > Exte	rnal User Settings > R	ADIUS Setting	 Advanced RAI 	OIUS Settin
Quick Links	RADIUS Authorization					
🕈 Dashboard	Administrator					
🐵 Sensor	H=4					
 System Inventory 	Operator					
FRU Information	H=3					
ind Logs & Reports	User					
and cogo a neporto	H=2					
Settings	OEM Proprietary					
🖵 Remote Control	H=1					
Image Redirection	No Access					
Power Control	H=0					
 Maintenance 	🖺 Save					
🕞 Sign out						

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

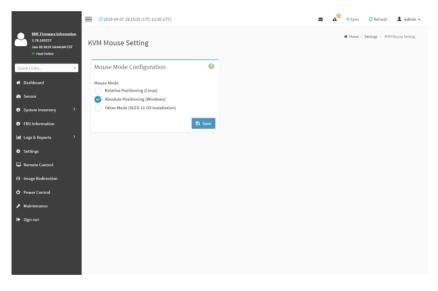
Example: 1 testadmin Auth-Type: =PAP, Cleartext-Password:="admin" Auth-Type: =PAP, Vendor-Specific= "H=4" **Example: 2** test operator Auth-Type: = PAP, Cleartext-Password:= "operator" Auth-Type: =PAP, Vendor-Specific= "H=3" If you change the Vendor-Specific value in server then you should change the same values in this page.

3. Click Save to save the changes made.

2-6-3 KVM Mouse Settings

In BMC Web 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

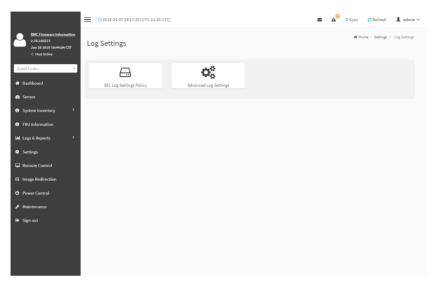
Note: Recommended for SLES-11 OS Installation

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

2-6-4 Log Settings

In BMC Web 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.

	© 2019-04-08 15:14:32 (UTC-11:30 UTC)	=	s 🛦 🌣 Sync	C Refresh	1 admin +
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:34 (ST Host Online	SEL Log Settings Policy	wi Ho	ime > Settings > Log Set	ings ≻ SELLog5	ettings Policy
Quick Links •	0				
# Dashboard	Log Policy Linear Storage Policy 🖌 Circular Storage Policy				
📾 Sensor					
System Inventory >	🖹 Save				
FRU Information					
🕍 Logs & Reports 🔹 💙					
 Settings Remote Control 					
Remote Control					
Power Control					
F Maintenance					
E 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.

		5	≜ [©] Sync	ø
BINC Firmware Information 2.NL 103277 Jan 28 2019 10:44:04 CST Host Online	Advanced Log Settings	# Hone	Settings > Log Sett	Segs -
Quick Links	Ø			
# Dashboard	System Log			
🚯 Sensor	LocalLog			
System Inventory	Cocallog Remotelog			
FRU Information	File Size			
네 Logs & Reports >	Rotate Count			
• Settings	0			
Remote Control	Remote Log Server			
Image Redirection	Server IP or Hostname			
	Remote Server Port			
Power Control	0			
	Enable Audit Log			
🕒 Sign out	B 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

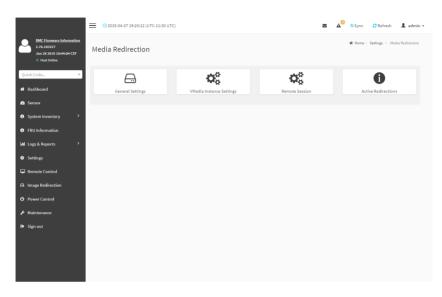
Note: This example uses FC13 as the remote machine to log syslog.

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

- 1. MODLOAD imudp
- 2. UDPSERVER 514

2-6-5 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.

		≡ ⊙ 20	19-04-07 19:20:49 (U	FC-11:30 UTC)	
2.76.10322	9 10:44:04 CST	Gener	al Settings		
Quick Links	v				0
🖶 Dashboard		R	emote Media Suppor	t	
Sensor		- M	lount CD/DVD		
System Invent	tory >	- M	lount Harddisk		
FRU Information	ion				🖹 Save
🕍 Logs & Report					
Settings					
🖵 Remote Contr					
🖨 Image Redires	ction				
O Power Contro					
📕 Maintenance					
🕞 Sign out					

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

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.

Same settings for Harddisk Images: Enable/Disable to select same media type data configurations for all the remote media types.

Mount Harddisk: Enable/Disable to Mount Harddisk.

Server Address for Harddisk Images: Address of the server where the remote media images are stored.

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

Share Type for Harddisk: To Select Share Type for Floppy.

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

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.

		5)
BMC Firmware Inform 2.76.103227 Jan 28 2019 10:44:04 • Host Online	VMedia Instance Settings	
Quick Links	·	0
🏶 Dashboard	CD/DVD device instances	
📾 Sensor	4	•
System Inventory	Hard disk instances	
FRU Information	4	•
Land Logs & Reports	Remote KVM CD/DVD device instances 2	
Settings	2 Remote KVM Hard disk instances	
Remote Control	2	٠
G Image Redirection	Power Save Mode	
Power Control		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 BMC Web, 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.

		2	🛚 🗚 🗢 Sync 😋 Refresh 💄 av
BMC Eirmware Informatio 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	Remote Session	**	Home $>$ Settings $>$ Media Redirection $>$ Remote Se
Quick Links	0		
# Dashboard	VKVM Single Port Application		
😤 Sensor	Enable KVM Encryption		
System Inventory	Keyboard Language		
 FRU Information 	Auto Detect (AD)		
Logs & Reports			
Settings	3 Retry Time Interval(Seconds)		
🖵 Remote Control	10		
Image Redirection	Server Monitor OFF Feature Status		
C Power Control	Automatically OFF Server Monitor, When KVM Launches		
🗲 Maintenance	B 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.

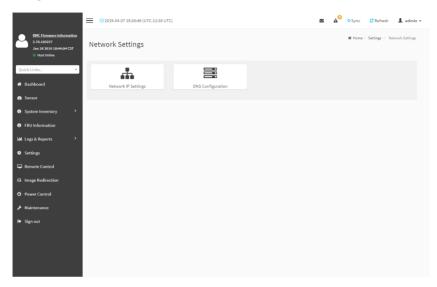
Active Redirections

This page displays a list of Media which are being redirected currently. It shows current status and other basic information about the Media.

	€ 2019-04-07 19:22	:14 (UTC-11:30 UTC)			🛛 🗚 🍳 Sync	CRefresh 💄 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Active Redirect	tions			n Home ≥ Settings ≥ Media F	Redirection > Active Redirections
Quick Links 🔻						
# Dashboard	Media Type 🗢	Media Instance 🕈	Client Type 🗢	Image Name 🕈	Redirection Status \$	Client IP \$
n Sensor	Media Type 🗢	Media Instance 🗢	Client Type ∓	Image Name Ŧ	Redirection Status 🜩	Client IP =
System Inventory						
FRU Information						
Logs & Reports →						
Settings						
Remote Control						
Image Redirection						
O Power Control						
🗲 Maintenance						
🕞 Sign out						

2-6-6 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 10:27:18 (UTC-11:30 UTC)	admin →
BMC. Economics: Information 2.36, 103227 Jan 20 2019 Mitchelded CST © Heat Online	Network IP Settings	W Hanne – Switzings – Ninhwark – Ninhwark IP Settings
Quick Links •	0	
# Dashboard	Enable LAN	
Sensor	LAN Interface	
O System Inventory	bond0 *	
FRU Information	MAC Address	
imi Loga & Reporta →	E0.05:58:C5:90:C2	
Settings	Enable IPv4	
📮 Remote Control	Enable IPv4 DHCP	
A Image Redirection	IPv4 Address	
O Power Control	10.1.112.123	
 Maintenance 	IPv4 Subnet	
	255.255.255.0	
🔁 Sign out	IPv4 Gateway	
	10.1.112.283	
	Enable IPv6	
	Enable IPv6 DHCP	
	IPv6 Index	
	•	
	IPv6 Address	
	2001xdb8:1234:5678x2d5:5eff:fec5:5dc2	
	Subnet Prefix Length	
	64	
	Enable VLAN	
	VLAN ID	
	0	
	VLAN Priority	
	0	
	18 Save	

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.

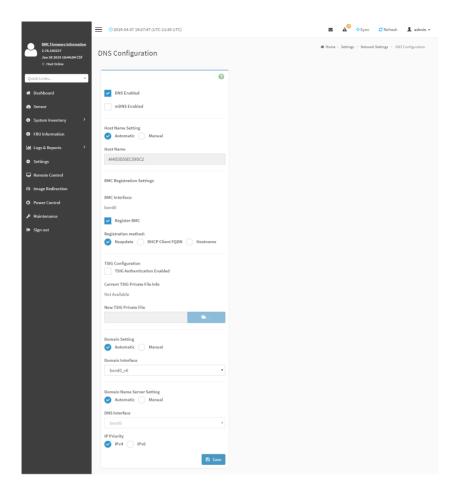
Procedure

- 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.
- 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.



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 $\ensuremath{\textbf{Save}}$ to save the entries.

2-6-7 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:

A 2 2029 FALLACT A 2 2029 FALLACT A 2040 Dathoard B Sensor S ystem Inventory FRU Information Lage & Raports Active DirectORY Settings Remote Control Inage Redirection		3 2019-04-08 07:09:58 (UTC+00:00 UTC)	=		
Bashboard Sensor System inventory FRU Information Id Logs & Raports Settings Tentests Control Image Redirection		PAM Order		Host Online	
			<u> </u>	inks	Quick I
System Investory System Investory System Investory FRU Information LDAP LDAP Settings Remote Control Investore Control Investore Control Investore Control	0			ıboard	🏶 Das
		PAM Authentication Order		ior	🙆 Sen
		IPMI	`	em Inventory	Sys
		IDAR		Information	🚯 FRL
			>	& Reports	Log
Image Redirection		ACTIVE DIRECTORY		ings	🗘 Set
		RADIUS		ote Control	🖵 Rer
				ge Redirection	🖨 Ima
Power Control	Save			er Control	🖸 Pov
F Maintenance				ntenance	۶ Mai
😁 Sign out				out	🕒 Sig

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.

2-6-8 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 BMC Web 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.

	3 2019-04-07 19:44:39 (UTC-11:30 U	TC)	N	🛦 🍳 Sync 😋 Refresh 💄 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Platform Event Filters			Home > Settings > Platform Event Filters
Quick Links 🔻		\bigtriangleup	►	
# Dashboard	Event Filters	Alert Policies	LAN Destinations	
n Sensor				
System Inventory				
FRU Information				
Logs & Reports >				
Settings				
🖵 Remote Control				
Image Redirection				
O Power Control				
F Maintenance				
🕒 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.



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.



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.



Note: In RAW data field, specify hexadecimal value prefix with '0x '.

- 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.

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	_	

• 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.

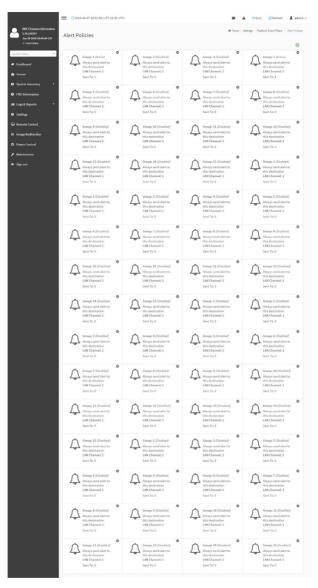


Note: Value ranges from 1 to 255.

- 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

- 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.

				2	a A	🖬 🔺 OSync	🗷 🔺 🗢 Sync 🖸 Refresh
BMC.Eicmware.Information 2.76.103227 Jans 28 2019 10.44.04 CST Noti Online	Alert Policies		# Home	# Home > Settings >	# Home > Settings > Platform E	# Home - Settings - Platform Event Filters	# Hone - Settings - Platform Event Filters - Alert Policies
Quick Links	Alert Policies	0					
# Dashboard	Policy Group Number						
n Sensor	1	•					
System Inventory	Enable this alert						
FRU Information	Policy Action						
land_Logs & Reports →	Always send alert to this destination	•					
• Settings	LAN Channel						
-	1	•					
Control	Destination Selector						
🖨 Image Redirection	1						
O Power Control	Event Specific Alert String						
📕 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.

=	⊖ 2019-04-07 19:56:12 (UTC-11:30 UTC)		Z A	⊙Sync ♂Refresh 💄 admin マ
BMS: Firmware: Information 2.76.103227 Jan 28 2019 10:44:54 (ST Host Online	N Destinations		₩ Home > Settings :	Platform Event Filters LAN Destinations
Quick Links * Select	the LAN Channel 1 🔹			
🖷 Dashboard				
📾 Sensor	LAN Channel: 1 LAN Destination: 1	LAN Channel: 1 LAN Destination: 2	LAN Channel: 1 LAN Destination: 3	LAN Channel: 1 LAN Destination: 4
System Inventory FRU Information	SNMP Trap 10.1.27.222 Sent To:	SNMP Trap Sent To:	SNMP Trap Sent To:	SNMP Trap 192.168.102.1 Sent To:
Logs & Reports	Send Test Alert	Send Test Alert	Send Test Alert	Send Test Alert
• Settings	LAN Channel: 1 LAN Destination: 5	LAN Channel: 1 LAN Destination: 6	LAN Channel: 1 LAN Destination: 7	LAN Channel: 1 LAN Destination: 8
Remote Control	SNMP Trap Sent To:	SNMP Trap Sent To:	SNMP Trap Sent To:	SNMP Trap Sent To:
🖨 Image Redirection				Send Test Alert
O Power Control	LAN Channel: 1	I AN Channel: 1		I AN Channel: 1
F Maintenance	LAN Channel: 1 LAN Destination: 9 SNMP Trap	LAN Channel: 1 LAN Destination: 10 SNMP Trap	LAN Channel: 1 LAN Destination: 11 SNMP Trap	LAN Channel: 1 LAN Destination: 12 SNMP Trap
🕒 Sign out	Sent To:	Sent To:	Sent To:	Sent To:

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

2-6-9 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.

		O 2019-04	I-07 19:58:45 (U	TC-11:30 UTC)				Sync 🌢 Sync	CRefresh 💄 admin 🗸
BMC.Firmware.Inform 2.76.103227 Jan 28 2019 10:44:04 Most Online		Services						я	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	= /
Logs & Reports	>	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 $\ensuremath{\textit{View}}$ lcon () to view the details about the active sessions for the service.
- 2. This opens the Active Session screen (for example Service Sessions) as shown in the screenshot below.

	≡	O 2019-04-07 20:01:44 (1	UTC-11:30 UTC)			Z A 0	Sync 😋 Refresh 💄 admin
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Se	ervice Sessions				i∰ Home ≻ :	Settings > Services > Service Sessions
Quick Links	* Act	tive Session - Ssh					
🖶 Dashboard							
Sensor	S	ession ID 🕈	Session Type 🗢	User ID 🗘	User Name 🕈	Client IP 🖨	Privilege 🗢
 System Inventory 	>			There is No	Active Session.		
FRU Information							
Land Logs & Reports	>						
Settings							
🖵 Remote Control							
Image Redirection							
O Power Control							
📕 Maintenance							
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 () to terminate the particular session of the service.

Procedure to modify the existing services:

1. Select a slot and click Edit icon () to modify the configuration of the service.



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.

	C 2019-04-07 20:04:42 (UTC-11:30 UTC)	🖬 🔺 🍳 Sync 😂 Refresh 💄
BMC Firmware Information 2.76.103227 Jan 28 2019 10244:04 CST Hoat Online	Service Configuration	
Quick Links 💌	0	
# Dashboard	Service Name	
🙆 Sensor	web	
System Inventory	Active	
FRU Information	Interface Name	
Lall Logs & Reports >	Non-secure port	
Settings	80	
🖵 Remote Control	Secure port	
Image Redirection	443	
Power Control	Timeout	
🗲 Maintenance	1800 Maximum Sessions	
🕪 Sign out	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.

2-6-10 SMTP Settings

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

Using BMC Web GUI, 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.

	2019-04-07 20:07:15 (UTC-11:30 UTC)	🖀 🛦 🍳 Sync 🖸 Refresh 💄
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:54 CST Host Online	SMTP Settings	₩ Home > Settings > SMTP S
Quick Links	0	
# 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	Primary SMTP port	
🗲 Maintenance	25	
🕒 Sign out	Primary Secure SMTP port	
	465	
	Primary SMTP Authentication	
	Primary Username	
	Primary Password	
	Primary SMTP SSLTLS Enable	
	Primary SMTP STARTTLS Enable	
	Secondary SMTP Support	
	B Save	
	2 3070	

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.



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.



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

17. Click Save to save the entered details.

2-6-11 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 BMC Web 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	▲ ♦ Syn	ic 🛛 🛛 Refresh	1 admin •
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST Host Online	SSL Settings				€ Home ≻ Settings :	 SSL Settings
Quick Links		ď	<u>1</u>			
🖶 Dashboard	View SSL certificate	Generate SSL certificate	Upload SSL certificate			
🙆 Sensor						
System Inventory >						
6 FRU Information						
Logs & Reports >						
• Settings						
Remote Control						
Image Redirection Power Control						
Power Control Maintenance						
 Maintenance 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	A Sync	C Refresh	1 admin •
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:54 CST Most Online	Upload SSL Certificate	in Hom والم	e > Settings > SSLSett	ings ≻ Upload SSI	Certificate
Quick Links	0				
# Dashboard	Current Certificate				
Sensor	Sun Jan 27 14:56:18 2019				
System Inventory	New Certificate				
FRU Information	Current Private Key				
Lall Logs & Reports →	Sun Jan 27 14:56:18 2019				
Settings	New Private Key				
🖵 Remote Control	>				
Image Redirection	D Save				
C Power Control					
🚱 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.

	B 2019-04-07 20:14:31 (UTC-11:30 UTC)		🕿 🛦 OSync 🖸 Refresh 🏦 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Generate SSL Certificate	<i>#</i>	$Home \succeq Settings \geq SSLSettings \geq GenerateSSLCertificate$
Quick Links	0		
# Dashboard	Common Name (CN)		
🙆 Sensor			
System Inventory	Organization (0)		
FRU Information	Organization Unit (OU)		
🕍 Logs & Reports 🔹 👌			
Settings	City or Locality (L)		
Remote Control			
A Image Redirection	State or Province (ST)		
O Power Control	Country (C)		
🗲 Maintenance	Country (C)		
0+ Sign out	Email Address		
	Valid for		
	in days		
	Key Length		
	2048 bits •		
	E 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)
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	View SSL Certificate
Quick Links	Current Certificate Information
# Dashboard	Certificate Version
📾 Sensor	3
System Inventory	Serial Number 92046422C980E206
FRU Information	Signature Algorithm
lal Logs & Reports >	sha256WithRSAEncryption
 Settings 	Public Key
🖵 Remote Control	(2048 bit)
Image Redirection	Issuer Common Name (CN)
O Power Control	ANI
	Issuer Organization (0)
🕪 Sign out	American Megatrends Inc
	Issuer Organization Unit (OU) Service Processors
	Issuer City or Locality (L)
	Atlanta
	Issuer State or Province (ST) Georgia
	Georgia Issuer Country (C)
	US
	Issuer Email Address
	support@ami.com
	Valid From
	Jun 1 07:01:56 2016 GMT
	Valid Till
	May 30 07:01:56 2026 GMT
	Issued to Common Name (CN)
	AM
	Issued to Organization (O) 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

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.

2-6-12 System Firewall

In BMC Web 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.

	2019-04-07 20:19:34 (UTC-11:30 UTC)		8	₽	Sync	C Refresh	1 admin -
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	System Firewall				# Home P	Settings > 5	ystem Firewall
Quick Links 💌	General Firewall Settings	IP Address Firewall Rules	C Port Firewall Rules				
System Inventory							
FRU Information Ltdt Logs & Reports							
 Settings Remote Control 							
Remote Control Image Redirection							
 Power Control Maintenance 							
🕪 Sign out							

General Firewall Settings

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

		🕿 🛕 🍳 Sync 🖸 Refresh 💄 admin 👻
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	General Firewall Settings	$\label{eq:massed} \mbox{\bf # Home} \sim \mbox{Settings} ~ \mbox{Firewall} ~ \mbox{General Firewall Settings}$
Quick Links •	o +	
# Dashboard	Existing Firewall Settings Add Firewall Settings	
🍘 Sensor		
System Inventory		
FRU Information		
laML Logs & Reports →		
Settings		
Remote Control		
Image Redirection		
O Power Control		
🖌 Maintenance		
🕪 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.

	O 2019-04-07 20:23:12 (UTC-11:30 UTC)		8	▲ OSync	C Refresh	1 admin
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:34 (ST Host Online	Existing Firewall Settings	n∰ Honne - Sett	ings > Firewall >	General Firewall Settin	ngs ≻ Existing Fir	rmall Settings
Quick Links 💌	Block All: IPv6 Timeout: Enabled From: 2013-04-07 2022:00 (UTC-11:20					
Sensor System Inventory FRU Information	UTC) To: 2019-04-07 23:22:00 (UTC-11:30 UTC)					
låt Logs&Reports →						
Remote Control Image Redirection						
Power Control Maintenance						
6 Sign out						

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.

	2019-04-07 20:23:45 (UTC-11:30 UTC)	2	₽	• Sync	C Refresh	💄 admin 🖌
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:34 (ST Host Online	Existing Firewall Settings	$\boldsymbol{\Re}$ Home \times Settings \times Firewall \times General Firewall Settings	Existing	Firewall Settin	gs ≻ Existing Fir	ewall Settings
Quick Links	0					
# Dashboard	Block All					
🍘 Sensor	IPv6					
System Inventory	Flush All					
FRU Information	Timeout					
læl Logs&Reports →	Start Date&Time 1970-01-18 12:21:49 (UTC-11:30 UTC)					
O Settings	End Date&Time					
🖵 Remote Control	1970-01-18 12:22:00 (UTC-11:30 UTC)					
Image Redirection	Delete					
O Power Control						
🗲 Maintenance						
6 Sign out						

Add Firewall Settings

Click **General Firewall Settings > Add Firewall Settings**. This opens the Add Firewall Settings page as shown below.

	@ 2019-04-07 20:25:42 (UTC-11:30 UTC)	
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Add Firewall Settings	
Quick Links		0
# Dashboard	Block All	
🚳 Sensor		•
System Inventory	Flush All	
FRU Information	Timeout	
لطا Logs & Reports >	Start Date 2019-04-07	
 Settings 	Start Time	
🖵 Remote Control	20:25	0
Image Redirection	End Date	
O Power Control	2019-04-07	±
📕 Maintenance	End Time	0
🖶 Sign out	20:25	_
		🖹 Save

- 1. Select **Block All** to block all the incoming IP's and Port's.
- 2. Select Flush All to flush all the system firewall rules.
- 3. Select Timeout to enable or disable firewall rules with timeout.
- 4. Enter Start Time to start the respective firewall rule effect from this time.
- 5. 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.



6. 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)		Z A	• Sync	🛛 Refresh 💄 admin 👻
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	IP Firewall Rules		*	forme ≻ Settings	> Firewall > 1P Firewall Rules
Quick Links	Existing IP Rules	Add New IP Rule			
System Inventory FRU Information					
lal Logs&Reports > ♥ Settings ➡ Remote Control					
 Image Redirection Power Control 					
✗ Maintenance G♦ 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.

			M	₽	 Sync 	C Refresh	1 admi
BMC Eirmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Existing IP Rules	₩ Home > Settin	gs ≻ Fire	wall > 1	P Oriented Fir	ewall Rules > E	isting IP Rule
Quick Links 💌	IP / IP Range:						
# Dashboard	10.1.112.123 -10.1.112.127						
🙆 Sensor	Rule: Allow Timeout: Enabled						
System Inventory	From: 2019-04-07 20:27:00 (UTC-11:30						
FRU Information	UTC) To: 2019-04-10 22:27:00						
lall Logs&Reports →	(UTC-11:30 UTC)						
Settings							
Remote Control							
Image Redirection							
🙂 Power Control							
🗲 Maintenance							
🚱 Sign out							

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.

	G 2019-04-07 20:29:25 (UTC-11:30 UTC)	🕿 🛦 OSync 🖸 Refresh 🏦 admin 🗸
BMC Firmware Information 2.76.105227 Jan 28 2019 10:44:04 CST Host Online	Existing IP Rules	${\pmb e}$ Hone - Setting - Forevall - IP Overted Fernall Rules - Existing IP Rules - Existing IP Rules
Quick Links	0	
# Dashboard	IP Single (or) Range Start	
🚳 Sensor	10.1.112.123	
System Inventory	IP Range End 10.1.112.127	
FRU Information	Enable Timeout	
lålL Logs & Reports →	Start Date&Time	
 Settings 	2019-04-07 20:27:00 (UTC-11:30 UTC)	
🖵 Remote Control	End Date&Time	
Image Redirection	2019-04-10 22:27:00 (UTC-11:30 UTC)	
🕲 Power Control	Rule Allow	
F Maintenance	Delete	
🕪 Sign out	Delete	

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.

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

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.

			z A	O Sync	C Refresh	💄 admin 🗸
BMC.Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST Hoat Online	Port Firewall Rules		# Home	Settings >	Firewall > Port F	irewall Rules
Quick Links	Existing Port Rules	Add New Port Rule				
System Inventory						
FRU Information Litt Logs & Reports						
 Settings Remote Control 						
Image Redirection Power Control						
🕪 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.

	2019-04-07 20:34:42 (UTC-11:30 UTC)	🕿 🔺 O Sym	: ORefresh 🌡 admin
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 CST I Host Online	e Existing Port Rules	₩ Home > Settings > Firewall > Port Oriented F	irewall Rules > Existing Port Rules
Quick Links			
# Dashboard	Port / Port Range: 123 - 456 Protocol: TCP		
🙆 Sensor	Network Type: IPv4		
System Inventory 3	From: 2019-04-07		
FRU Information	20:33:00 (UTC-11:30 UTC)		
Lal Logs & Reports	To: 2019-04-26 21:33:00 (UTC-11:30 UTC)		
Settings			
🖵 Remote Control			
Image Redirection			
O Power Control			
🖌 Maintenance			
🕪 Sign out			

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)		■ A OSync CRefresh L ad
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Existing Port Rules	Home ≥ Settings > Firewall ≥ PortOrien	ted Firewall Rules — Existing Port Rules — Existing Port R
Quick Links •	Ø		
# Dashboard	Port Single (or) Range Start		
🏚 Sensor	123		
System Inventory	Port Range End		
FRU Information	456		
- Lad Logs & Reports >	Protocol		
an collected and	TCP		
Settings	Network Type		
Remote Control	IPv4		
Image Redirection	Enable Timeout		
• Power Control	Start Date&Time		
	2019-04-07 20:33:00 (UTC-11:30 UTC)		
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

	0
Port Single (or) Range Start	
Port Range End	
optional	
Protocol	
TCP	,
Network Type	
IPv4	,
Enable Timeout	
Start Date	
2019-04-07	
Start Time	
20:35	0
End Date	
End Time	
	0
Rule	

- 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 $\ensuremath{\textbf{Rule}}$ to determine the rule to Block or Allow.
 - 12. Click **Save** to save the changes made.

2-6-13 User Management

In BMC Web 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.

RMC Firmware Information		2)	2	▲ OSync CRefresh ▲ admin ~
- Host Online	User Management			
Quick Links				Ø
# Dashboard	Channel 1	Channel 1	Channel 1	Channel 1
Sensor System Inventory FRU Information	1 anonymous (Disabled) Administrator KVM VMedia	Z admini (Active) Administrator KVM VMedia	ADMIN (Active) Administrator KVM VMedia	4 (Disabled)
lat Logs & Reports >				
 Settings 	Channel 1 5 (Disabled)	Channel 1 6 (Disabled)	Channel 1 7 (Disabled)	Channel 1 8 (Disabled)
🖵 Remote Control				
Image Redirection Power Control	Channel 1 9 (Disabled)	Channel 1 10 (Disabled)	Channel 1 11 (Disabled)	Channel 1 12 (Disabled)
 Maintenance Sign out 				
	Channel 1 13 (Disabled)	Channel 1 14 (Disabled)	Channel 1 15 (Disabled)	Channel 1 16 (Dirabled)

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.

	0
Username	
anonymous	
Change Password	
Password Size	
16 bytes	٠
Password	
Confirm Password	
Enable User Access	
Privilege	
Administrator	•
V KVM Access	
VMedia Access	
SNMP Access	
SNMP Access level	
	*
SNMP Authentication Protocol	
SNMP Privacy Protocol	
	•
Email Format	
AMI-Format	
Email ID	
Existing SSH Key	
Not Available	
Upload SSH Key	
	b
Delete	😫 Save

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.



 $\ensuremath{\textbf{Note:}}\xspace$ 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)
ОВ	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.

- 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.



Note: SMTP Server must be configured to send emails.

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.

	0
Jsername	
anonymous	
Change Password	
Password Size	
16 bytes	*
assword	
Confirm Password	
Enable User Access	
Privilege	
Administrator	•
 KVM Access 	
VMedia Access	
SNMP Access	
SNMP Access level	
SNRP Access level	
SNMP Authentication Protocol	
SAME ADDIVIDUATION PROTOCOL	•
5NMP Privacy Protocol	
mail Format	
AMI-Format	
mail ID	
ixisting SSH Key	
Not Available	
Jpload SSH Key	
	.
Delete	🖺 Save

- 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.

2-6-14 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.

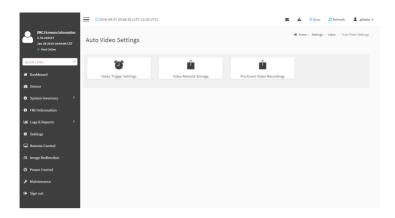
)	2	₽	Sync	C Refresh	💄 admin 🗸
BMC Firmware Information 2,76.103227 Jan 28 2019 10544594 CST Host Online	Video Recording				# Home	- Settings > Vi	leo Recording
Quick Links •	Auto Video Settings	SOL Settings	Java SOL				
Sensor System Inventory							
FRU Information Infl Logs & Reports							
Settings Remote Control							
Image Redirection Power Control							
 Maintenance 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.

	6
Critical Events (Temperature/Voltage)	
Non Critical Events (Temperature/Voltage)	
Non Recoverable Events (Temperature/Volt	age)
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	

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.

ſ	P
н	
L.	

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)		M	₽	Sync	C Refresh	1 admin •
An 28 2019 1024634 CST Max Chine	Pre-Event Video Recordings	₩ Home -	Settings >	Video -	Auto settings	 Pre-Event Vide 	o 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 is disabled by default. To enable the Pre-Event video recording, go to the <u>Triggers</u> <u>Configuration</u> page.						
System Inventory >	Video Quality						
FRU Information	Very Low •						
Lal Logs & Reports >	Compression Mode						
Settings	High						
🖵 Remote Control	Frames Per Second						
Image Redirection	1						
😃 Power Control	Video Duration						
🗲 Maintenance	Pi 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)		M 4	
2	BMC Firmware Information 2.76.103227 Jan 2019 10:44:04 CST Host Online	Video Remote Storage	₩ Home	> Settings >	
Qui	ck Links •		0		
*	Dashboard	Record Video to Remote Server			
0	Sensor	Maximum Dumps			
0	System Inventory >	2			
0	RU Information	Maximum Duration (Sec)			
	Logs & Reports	20			
•	Settings	Maximum Size (MB)			
Ģ	Remote Control	Server Address			
	mage Redirection	Server IP or Host name			
¢	- Power Control	Path in server			
	Maintenance	eg. /opt/bmc/videos			
	Sign out	Share Type			
	Ağır Dax				
		B Sa			

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.

	O 2019-04-07 21:07:53 (UTC-11:30 UTC)		2	▲ OSync CRefresh L admin •
EMC Firmware Information 2.76.105227 Jan 28 2019 10:44:04 CST Host Online	Sol Settings			${\boldsymbol{W}}$ Home \succ Settings \succ video \succ Sol Settings
Quick Links 💌	0	î		
# Dashboard	SOL Trigger Settings	SOL Remote Storage	SOL Recorded Files	
🙆 Sensor				
System Inventory >				
FRU Information				
Lall Logs & Reports >				
 Settings 				
🖵 Remote Control				
Image Redirection				
C Power Control				
₣ Maintenance				
🕒 Sign out				

The SOL Settings consists of three fields:

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

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.

	G 2019-04-07 21:08:24 (UTC-11:30 UTC)	z	A OSync	CRefresh 💄 admin +
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:94 (ST Host Online	SOL Trigger Settings	*	Home > 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			
lålL 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			
	Date and Time Event			
🕪 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.

	O 2019-04-07 21:11:34 (UTC-11:30 UTC)	М	₽	O Sync	C Refresh	1 admin -
BHC: Firmware Information 2.76.100227 Jan 28 2013 10:44:54 CST Host Coline	SOL Remote Storage	# Home	- Setti	ngs - video	> Sol > SOLR	ernote Storage
QuickLinks.	0					
# Dashboard	Log Size (KB)					
👧 Sensor	128					
System Inventory	Log File Count					
ERU Information	5 Record SOL to Remote Server					
Logs&Reports →	Server Address					
Settings	Server IP or Host name					
	Path in server					
🖴 Image Redirection	eg./opt/bmc/videos					
O Power Control	Share Type Share Type NFS CIFS					
	P3 Save					
🕞 Sign out	64 3440					

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 Video

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 Video** is given below.

	2019-04-07 21:13:13 (UTC-11:30 UTC)		a a	O Sync	C Refresh	1 admin •
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST bits Colline	Sol Recorded File	s		₩ Home >	Settings ≻ vide	eo ≻ Sol ≻ Sol F	
Quick Links	S.No \$	File Name 🕈	File Information 🗘				0
🝘 Sensor							
FRU Information							
Latt Logs & Reports >							
Image Redirection							
 Power Control Maintenance 							
🕒 Sign out							

JAVA SOL

This page allows you to download JAVA SOL. A sample screenshot of JAVA SOL is given below.

	O 2019-04-07 21:13:36 (UTC-11:30 UTC)	Z A	○ Sync	C Refresh
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Java SOL		# Home	Settings > video
s Links •	To Launch the Java SOL, you must have Administrator privilege. NOTE: A compatible JRE must be installed in the system prior to the launch of JNLP file.			
nsor stem inventory				
RU Information ngs & Reports >				
errongs emote Control nage Redirection				
ower Control				
ign out				

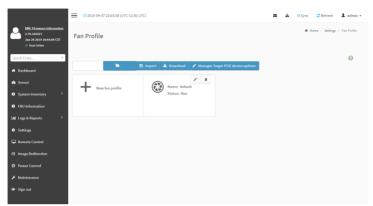
Note: A compatible JRE must be installed in the system prior to the launch of JNLP file.

2-6-15 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

1. To add fan profile:

					2	▲ ○Sync	C Refres	ih 💄 admin 🖌
EMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Edit New Fan Profile				🕏 Home	i ≻ Settings ≻	Fan Profile 😕 E	dit New Fan Profile
Quick Links 👻	Back Save New policy Delete selected policy							
# Dashboard	Ø							
🙆 Sensor	Name		100					
System Inventory	NEW_PROFILE		80					
FRU Information	Policy Algorithm Sensor Type Initialize Duty		60					
🕍 Logs & Reports 🔹 🔸	0 v Step v Temperat v 100	Duty (%)						
Settings	Sensor	ő	40					
Remote Control			20					
Image Redirection	Fan		0 25					
O Power Control			25) :		150 Reading Valu	100 2	50
✗ Maintenance								
	Policy Execute Condition							
0+ Sign out	CPU Tdp (W)							
	0							
	Ambient Sensor							
	N/A *							
	PCIE Device							
	Not check pcie device, ignore this execute condition							
	Policy Reference Table							
	Reference 0 Duty (%)							
	127 100 Delete							

- 2. Click the + to add fan policy.
- 3. Enter the value in the respective field.
- 4. Click Save to save the configuration.

2-6-16 Power Consumption

The Power Consumption is a simple display page for basic power consumption reading information. Item on this page are non-configurable.

	O 2019-04-07 22:16:39 (UTC-11:30 UTC)	2	🛦 🗢 Sync	🛛 Refresh 💄 admin 👻
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Power Consumption		*	Home > Power Consumption
Quick Links •	0			
# Dashboard		_		
💑 Sensor	Power Consumption Reading			
System Inventory	Current Power Consumption (W)			
FRU Information	40			
læL Logs & Reports →				
 Settings 				
🖵 Remote Control				
Image Redirection				
O Power Control				
✗ Maintenance				
🕒 Sign out				

This page intentionally left blank

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.
- 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.

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 CST Host Online	Remote Control Power 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				
0+ 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)	Σ	₽	🗢 Ѕулс	🛛 Refresh 💄 admin 🖌
BMC Firmware Information 2.76.109227 Jan 28 2019 1044404 (ST Most Online	Remote Control & Remote KIAI & SOL				₩ Home ≻ Remote Control
Quick Links	🛳 Launch KVM				
# Dashboard	Launch JAVA SOL				
🍘 Sensor					
System Inventory					
FRU Information					
lat Logs& Reports →					
• Settings					
🖵 Remote Control					
Image Redirection					
O Power Control					
F Maintenance					
🕪 Sign out					

Click Launch KVM to open the Remote Control KVM page.

Stop KVM: Stops the H5Viewer video redirection.

Video Record: This menu contains the following sub menu items:

- **Record Video**: This option is to start recording the screen.
- **Stop Recording**: This option is used to stop the recording.

Record Settings: This option is used to set Video Recording Duration.



Note: The Maximum video file size allowed is around 40MB. If the video file size reaches its max size limit, the recorded file is downloaded and recording will be in progress until the configured video recording time is reached. The video file is saved as video_date-month-year_hr-min-sec_partno in client side video recording.

Users have to take care of saving the video files in different browsers.

When H5viewer focus is lost and if video recording is in progress, the recording will be stopped with a notification message and the recorded video file will be discarded. Due to browser limitation, Set timeout/set interval will be delayed from specified time of interval when browser window loses focus, Hence, video server will not send the video packets to H5viewer and so the video recording will be stopped.



Note:Windows 2016 installation takes 1 hour and 52 minutes to install on Ironman through the BMC ISO redirection.

Send Keys: This option is used to key items.

This menu contains the following sub menu items:

- Hold Down
- Press and Release

Hold Down

This menu contains the following sub menu items:

Right Ctrl Key: This menu item can be used to act as the right-side <CTRL> key when in Console Redirection.

Right Alt Key: This menu item can be used to act as the right-side <ALT> key when in Console Redirection.

Right Windows Key: This menu item can be used to act as the right-side <WIN> key when in Console Redirection.

Left Ctrl Key: This menu item can be used to act as the left-side <CTRL> key when in Console Redirection.

Left Alt Key: This menu item can be used to act as the left-side <ALT> key when in Console Redirection.

Left Windows Key: This menu item can be used to act as the left-side <WIN> key when in Console Redirection. You can also decide how the key should be pressed: Hold Down or Press and Release.

Press and Release

Ctrl+Alt+Del: This menu item can be used to act as if you depressed the <CTRL>, <ALT> and keys down simultaneously on the server that you are redirecting.

Left Windows Key: This menu item can be used to act as the left-side <WIN> key when in Console Redirection. You can also decide how the key should be pressed: Hold Down or Press and Release.

Right Windows Key: This menu item can be used to act as the right-side <WIN> key when in Console Redirection.

Context Menu Key: This menu item can be used to act as the context menu key, when in Console Redirection.

Print Screen Key: This menu item can be used to act as the print screen key, when in Console Redirection.

Hot Keys: This menu is used to add the user configurable shortcut keys to invoke in the host machine. The configured key events are saved in the BMC.

This menu contains the following sub menu items:

• Add Hot Keys - This menu is used to enable macros. Click Add to macros.

Browse File: Used to select the CD image file to be redirected to the host. Start Media: Redirects the selected CD image file to the host.

Stop Media: Stops the CD media redirected to the host.

Procedure To Start KVM

1. Click Start KVM to start the H5Viewer video redirection. A sample screenshot is as shown below.



- 2. Click Browse to select CD Image.
- 3. Click Start Media to redirect the selected CD image file to the Host. A sample screenshot is as shown below.

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4. To stop the CD Image redirection, click Stop Media.

Settings

Keyboard Layout

List of Host Physical Keyboard languages supported in SPX H5Viewer.

- English U.S
- German
- Japanese

Video

This menu contains the following sub menu items:

Pause Video: This option is used for pausing Console Redirection.

Resume Video: This option is used to resume the Console Redirection when the session is paused.

Refresh Video: This option can be used to update the display shown in the Console Redirection window.

Host Display

Display on: If you disable this option, the display will be shown on the screen in Console Redirection

Display off: If you enable this option, the server display will be blank but you can view the screen in Console Redirection. If you disable this option, the display will be back in the server screen.

Capture Screen: This option helps to take the screenshot of the host screen and save it in the client's system.

Mouse

Show Client Cursor: This menu item can be used to show or hide the local mouse cursor on the remote client system.

Mouse Mode: This option handles mouse emulation from local window to remote screen using either of the two methods. Only 'Administrator' has the right to configure this option.

- Absolute mouse mode: The absolute position of the local mouse is sent to the server if this option is selected.
- **Relative mouse mode**: The Relative mode sends the calculated relative mouse position displacement to the server if this option is selected.
- **Other mouse mode**: This mouse mode sets the client cursor in the middle of the client system and will send the deviation to the host. This mouse mode is specific for SUSE Linux installation.



Note: Client cursor will be hidden always. If you want to enable, use Alt + C to access the menu.

Options

The Bandwidth Usage option allows you to adjust the bandwidth. You can select one of the following options:

Block Privilege Request: To enable or disable the access privilege of the user.

Keyboard/Mouse Encryption: This option allows you to encrypt keyboard inputs and mouse movements sent between the connections.

0 Best Quality - 7: This option allows you to adjust the screen resolution.

Power

The power options are to perform any power cycle operation. Click on the required option to perform the following operation:

Reset Server: To reboot the system without powering off (warm boot).

Immediate Shutdown: To perform Power OFF Immediately.

Orderly Shutdown: To Power OFF the server in proper order.

Power ON Server: To Power ON the server.

Active Users

Click this option to display the active users and their system ip address.

Active KVM Session can be terminated when there are multiple KVM Session from Master [FULL Privilege KVM Session].

Help

Click this option to get more information About H5Viewer. The KVM Remote Console utility version and plugin version will be displayed.

Zoom 100%

Displays the zoom percentage. Users can click Options from the menu bar and then select Zoom In or Zoom Out to adjust the zoom percentage.

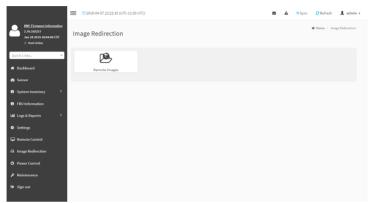
Power ON/OFF

Click this option to Power ON/OFF the server.

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.

- Local Images
- Remote Images



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.

		12:25:21 (UTC-11:30 UTC)			🖀 🛦 OSync	CRefresh 💄 admin 🗙
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST	Remote Med	lia Emulate CD/DVD/HDD	images in the network to	host as media through BMC	n€ Home ≻ Image F	Redirection > Remote Media
Host Online Quick Links						© Refresh Image List
# Dashboard	Media Type	Media Instance	Image Name	Redirection Status	Connected Server Session Index	
Sensor						
System Inventory FRU Information						
A Logs & Reports						
Settings						
🖵 Remote Control						
A Image Redirection						
🙂 Power Control						
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.



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

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.

	2019-04-07 22:26:53 (UTC-11:30 UTC)	
BMC Firmware Information 2.76.103227 Jan 28 2019 10244:04 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	
bålLogs&Reports >	😔 Hard Reset	
Settings	ACPI Shutdown	
🖵 Remote Control		O Perform Action
Image Redirection		
O 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.

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
- HPM Firmware Update
- Preserve Configuration
- Restore Configuration
- Restore Factory Defaults
- System Administrator

A sample screenshot of Maintenance is shown below.

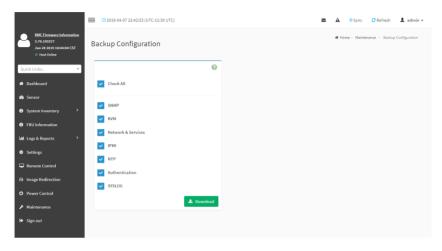
A detailed description is given below.

)		Sync CRefresh 💄 admin 🗸
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Most Online	Maintenance			₩ Home > Maintenance
Quick Links	*		0	
🖷 Dashboard	Backup Configuration	Firmware Image Location	Firmware Information	Firmware Update
n Sensor			.	5
System Inventory	HPM Firmware Update	Preserve Configuration	Restore Configuration	Restore Factory Defaults
FRU Information				
Land Logs & Reports →	System Administrator			
Settings	System Administrator			
Remote Control				
Image Redirection				
O Power Control				
🗲 Maintenance				
🕒 Sign out				

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.ftpd <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.

	O 2019-04-07 22:43:17 (UTC-11:30 UTC)	2 4	Sync 🗢 Sync	CRefresh	admir
BMC Firmware Information 2.76.103227 Jan 28 2019 10:44:04 CST Host Online	Firmware Image Location	an Ho	ome > Maintenanc	ce > Firmware Image Lo	ocation
Quick Links 👻	0				
# Dashboard	Image Location Type				
🙊 Sensor	Web Upload during flash				
System Inventory	E Save				
FRU Information					
Land Logs & Reports →					
Settings					
🖵 Remote Control					
🖨 Image Redirection					
O Power Control					
🗲 Maintenance					
🕒 Sign out					

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.

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L	
•	

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 "xxxx:xxxx:xxx:xxx:xxx:xxx:xxx:xxx:xxx." 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 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.

	201	9-04-08 14:27:36 (UTC-11:30 UTC)		Z A	Sync 🗘	C Refresh
C Firmware Information 8.103227 28.2019 10:44:04 CST 4ost Online	Firmwa	are Update			₩ Home ≻ Main	stenance > Firm
3 v			0			
oard -	this up	protocol information to be used for firm date is as follows. To configure, choose Waintenance.				
n Inventory >	will inte should,	ware upgrade is in process. Refreshing t errupt this process and will likely cause , so it is highly recommended that you d or close Page.	the BMC to not work as it			
Reports >		ol Type: HTTP				
8	Update	a Type: BMC *				
e Control	· ·					
Redirection						
Control		serve all Configuration. This will prese	and the second se			
nance	settings	during the firmware update - irrespect as preserve/overwrite in the table belo	ive of the individual items			
ŧ	All config configura Preserve	puration items below will be preserved a ation operation. Click "Edit Preserve Cor status settings. serve Configuration	as default during the restore			
	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 Jai	led signtmage Public Key Info n 27 15:13:43 2019 gnImage Public Key				
		cose File No file chosen	🖺 Upload			
	Chi					
	Select Fi	rmware Image ose File No file chosen				
	Select Fi	rmware Image				
	Select Fi	rmware Image 568 File No file chosen	iate			
	Select Fi	rmware Image	late			

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:

Section 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.

	1-04-08 14:27:36 (UTC-11:30 UTC)		🖬 🛕 📀 Sync	C Refresi
ermation on cst Firmwa	re Update		w€ Home ≻ Mai	ntenance >
•		Ø		
this upo	rotocol information to be used for firm date is as follows. To configure, choose	ware image transfer during 'Firmware Image Location'		
> 2. Firmy will inte	faintenance. vare upgrade is in process. Refreshing t rrupt this process and will likely cause	the BMC to not work as it		
should, refresh	so it is highly recommended that you o or close Page.			
Protoco				
Update	Type: BMC *			
	serve all Configuration. This will press	Raha an Ramada a		
settings	during the firmware update - irrespect s preserve/overwrite in the table belo	ive of the individual items		
configura Preserve	uration items below will be preserved a tion operation. Click "Edit Preserve Co status settings. 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 REDFISH	Overwrite		
	ed signImage Public Key Info			
	27 15:13:43 2019			
	nImage Public Key	🖏 Upload		
		El obreso		
	mware Image se File No file chosen			
Choo	do the chosen			
	Start firmware upo	late		

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

R://Users/1021271	17 Desktool CL3150 G4 BA	C V1.0.0.1/CL3150 G4 BMC	Browse	
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 th	te current session, and open a
cont	2,4,000000	2.4.000000	new session after a couple of minutes.	
root	2.4.000000	2.4.000000		
osimage	2.4.000000	2.4.000000		OK
www	2.4.000000	2.4.000000		
ast2500e	1.0.103227	1.0.303227		



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.

2-10-4 HPM Firmware Update

This page allows you to update the HPM (Hardware Platform Management) firmware. To configure, choose '**HPM Firmware Image Location**' under **Maintenance**. To open HPM Firmware Update page, click **Maintenance** > **HPM Firmware Update** from the menu bar. A sample screenshot of HPM Firmware Update page is shown below.

Jan 28 2019 10:44:04 CST Host Online				
ck Links 👻			Ø	
Dashboard	All config	ration items below will be preserved a	as default during the partons	
		ion operation for BMC Component alo		
System Inventory >	S.No	Preserve Configuration Item	Preserve Status	
RU Information	1	SDR	Overwrite	
.ogs & Reports >	2	FRU	Overwrite	
Settings	3	SEL	Overwrite	
emote Control	4	IPMI	Overwrite	
mage Redirection	5	NETWORK	Overwrite	
	6	NTP	Overwrite	
ower Control	7	SNMP	Overwrite	
laintenance	8	SSH	Overwrite	
lign out	9	KVM	Overwrite	
	10	AUTHENTICATION	Overwrite	
	11	SYSLOG	Overwrite	
	12	WEB	Overwrite	
	13	REDFISH	Overwrite	
	Sun Jan	ed signImage Public Key Info 27 15:13:43 2019		
		nImage Public Key 09e File No file chosen	🖺 Upload	
	Gno	use File No file chosen	El obroso	
	Select Fir	mware Image		
	Choo	se File No file chosen		
		Start firmware up:	fate	
	web pag	Please note that after entering the up is and services will not work. All the op cally closed. If the upgradation is canc	pen widgets will be	

The various fields of HPM Firmware Update are as follows:

- New signimage Public Key: To select the signimage Public Key to be uploaded.
- 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.
- 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.

10.1.112.70 says:		×
Are you sure you want to flash?		
	ОК	Cancel
	ОК	Cancel

g) Verifying Firmware Image.

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

Section 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.

elect Firmware Image			oad .
elect i minware miage			
Choose File output	thpmimage.hpm		
ist of Compo	nents		
List of Component Name	Existing Version	Uploaded Version	
# Component Name	Existing Version	•	Upgrade

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



ſ	P
l	

Note: The HPM 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 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.

	2019-04-07 22:44:50 (UTC-11:30 UTC)	2	▲ OSync CRefresh L
BMC Firmware Information 2.76.103227 Jan 28 2019 10044:04 CST Host Online	Firmware Information		Home ≥ Naintenance ≥ Firmware Inform
Quick Links	0		
# Dashboard			
🍘 Sensor	BMCFirmware Information		
System Inventory >	Jan 28 2019		
FRU Information	Build Time		
Logs&Reports >	10:44:04 CST		
Settings	Firmware version 2.76.103227		
🖵 Remote Control			
Image Redirection	BIOSFirmware Information		
Power Control	GIGABYTE		
🗲 Maintenance	Product Name		
Sign out	MX32-BS0-00		
	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.

2-10-6 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.

2:47:15 (UTC-11:30 UTC)	2	A OSync	2 Refresh 💄 admin 👻
		₩ Home > Naintenar	toe 🕞 Preserve Configuration
0			
o Firmware Update or Restore Factory			
ion			
🖺 Save			
	tion	Infiguration	nfiguration

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.

2-10-7 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.

	O 2019-04-07 22:49:46 (UTC-11:30 UTC)	2	▲ •Sync CRefresh L admin
EMC Eirmware 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	E Save		
FRU Information			
Lalit Logs & Reports			
Settings			
🖵 Remote Control			
Image Redirection			
O 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.
- 2. 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.

2-10-8 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 2.76.103227 Jan 28 2019 10:44:54 CST Host Online	Restore Factory Defaults	# Home - Maintenance - Restore Factory Defaults
Quick Links *	Ø	
# Dashboard # Sensor	The following checked configurations will be preserved through the restore operation. You can make changes to the list in the preserve configuration page.	
-	in our presence compared on pages	
C of section of the s	SDR	
FRU Information	FRU	
Latt Logs & Reports >	SEL	
Settings	ІРМІ	
🖵 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

2-10-9 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)	e A	Sync	CRefresh .	🛔 admin 🗸
BMC Firmmarc Information 2,76.103227 Jan 28 2019 10044394 CST Host Online	System Administrator(BMC Debug console)	> Maintenance	System Admin	nistrator(BMC Debu	ug console)
Quick Links 🔻	0				
# Dashboard	Username				
🚳 Sensor	sysadmin				
System Inventory	Enable User Access				
FRU Information	Change Password				
lall Logs & Reports →	Password				
Settings	Confirm Password				
🖵 Remote Control					
Image Redirection	B 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.

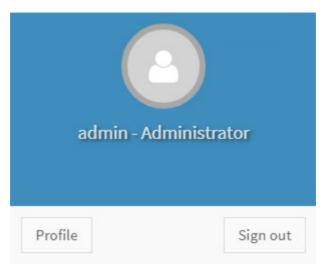
Save: To save the new configuration for system administrator.

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.

2-10-10 15 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.