

BullSequana EX & AI

SHC Reference Guide

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Hardware

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Preface

This guide explains how to use the SHC to manage the server.

See The Bull support web site for the most up-to-date product information, documentation, firmware updates, software fixes and service offers: https://support.bull.com

Intended Readers

This guide is intended for use by system administrators and operators.

Chapter 1. Getting started

1.1. Overview

The Server Hardware Console (SHC) for BullSequana EX & AI servers provides a web based interface to manage, configure and monitor the server.

The SHC is powered by OpenBMC, an open source implementation of the Baseboard Management Controller (BMC) firmware stack

1.2. Connecting to the Server Hardware Console (SHC)

Prerequisites

- A laptop is connected to the server via the LAN
- An IP address is available for the server
- Chrome or Firefox web browsers are recommended
- Setting the language of the web browser to English is recommended

Procedure

Note The connection to the SHC must be made using the https protocol.

- 1. Open a web browser on the laptop.
- 2. Enter the server IP address into the address bar, using the https secure protocol.
- 3. Ignore all security messages displayed, including advanced messages. The SHC authentication page opens.



4. Complete the Username and Password fields and click Log in.

The Overview page opens

Important It is strongly recommended to change the initial password once the setup is completed, taking care to record the new account details for subsequent connections.

1.3. The Overview page

This page provides a summary of system details and their status. It also includes links to server management and configuration features.

Note Some operations, for example, editing network settings, can be performed both from the shortcut (I) on the Overview page or via the feature tab on the left hand side (A).



Mark	Description
А	Feature tabs with sub-items used to monitor, manage and configure a server
В	Product serial number of the server
С	Summary of the server health status with a link to the System Logs
D	Server power status with a link to the Server power operations page.
E	Refresh button for the Overview page. The date and time of the last refresh is shown in the BMC time section.
F	admin button with links to user profile settings and the log out button.

Mark	Description
G	BMC time showing the time and date for the information displayed on the Overview page.
н	Link to the Serial over LAN (SoL) console page
I	Link to the Network Settings page
J	Server details
К	Power consumption and power cap details
L	View high priority event logs. Critical events only are shown. To see all the event logs click View all event logs
М	Summary of network information
Ν	Summary of BMC information

1.4. SHC features

The SHC tabs include features to:

- Provide an overview of the server
- Monitor the health of the server
- Manage the server
- Configure the server
- Configure access and user settings for the server

Tab	ltem	
	Server information	
	BMC information	
Overview	Power consumption	
	Network information	
	High priority event logs	
	Hardware information	
Health	Event log	
	Sensors	
	Log Collect	
	Server power operation	
	KVM	
	SOL console	
	Virtual Media	
Control	Power restore policy	
	Server ID LED	
	Reset to default	
	Manage power usage	
	Reboot BMC	
	Date and time settings	
	Firmware	
Configuration	Network settings	
Configuration	Rsyslog	
	KVM settings	
	Global settings	

Tab	Item	
	Client sessions	
Access control	LDAP	
Access control	Local user management	
	SSL certificates	

1.5. Changing the user password

Important It is strongly recommended to change the initial password once the setup is completed, taking care to record the new account details for subsequent connections.

1. From the user profile button, click Profile settings.



- 2. Enter and confirm the new password.
 - The password must be between 8 and 20 characters long
 - The password must be a mixture of upper case letters, lower case letters, numbers and special characters
 - The password must be different from the user name
- 3. Click Save settings.

Note According to the localisation the timezone can also be changed, for example in France UTC+2 would be used.

Chapter 2. Monitoring the system

2.1. Checking hardware information

1. From the Health tab, click Hardware Information. The Hardware Information page opens.

Har	rdware	e info	rmatio	on	_	
Syste	em				🛓 Get Identity	Card
	ID	Health	Part number	5	Serial number	
	system	Ø OK		>	(AN-ORD-00007	
Q Sear			5 items			
	ID	He	alth Part n	umber	Serial number	
~		He.			Serial number	
~			OK 120020	800		
	ORIUGRB	0	ок 120024 ок 120024	008		
~	ORIUGRB ORM2BRB		ЭК 120020 ЭК 120020 ЭК 120020	008		

PCIe devices

Q Sear	ch	13 items	
	\$ ID	Aanufacturer	Device Name
~	Pcie_internal_pcie25	Micron Technology Inc	7450 PRO NVMe SSD 800GB M.2
\sim	Pcie_internal_pcie27	Micron Technology	7450 PRO NVMe SSD 800GB
~	Pcie_internal_pcie29	Micron Technology Inc	7450 PRO NVMe SSD 800GB M.2

DIMM slot

Q, Search		0 items	
\$ ID	🛊 Health	Part number	\$ Serial number
		No items available	

Power supplies

	\$ ID	🖨 Health	Part number	💠 Serial number
~	PSU1	ØOK		1358132NAA221000023

Processors

Q Sea	Q Search		1 items	
	\$ ID	Health	Part number	\$ Serial number
\sim	CPUO	ØOK	PK8071305490600	6959905531

Storage

Q Sea	rch	8 iter	ns	
	\$ ID	# Health	Part number	Serial number
~	NBB_M2_DISK0	ØOk		2320416A8E1D
$\widehat{}$	NBB_M2_DISK6	Ø Ok		2320416A8E85
~	NBB_M2_DISK7	Ø Ok		2320416A8F70

BMC manager

ID	Health	Part number	Serial number
bmc	ØOK		1241

- 2. Click the downward pointing arrow (A) to expand the information details for a component.
- **Note** The Part number and Model parameters are not available for M.2 NVMe disks.
- 3. Click **Get Identity Card (B**) to obtain the hardware information as an identity card in the .json format.



Checking event logs 2.2.

Displaying event logs

From the Health tab, click Event logs. The Event logs page opens.

Event logs

a se	earch logs		2294	items		
om d	iate		To date			
m	-MM-DD		YYYY	-MM-DD		
						² Filte
	≑ ID	\$ Seve	erity	\$ Date	Description	
	1686047387	ØOK		2023-06-06 10:29:47 UTC	SEL Entry Added: 2C000416160A00FFFF	B
	1686047345	Ø OK		2023-06-06 10:29:05 UTC	PVCCFA_EHV_CPU0_PWR sensor crossed a warning low threshold going high. Reading=2.000000 Threshold=1.000000.	C
	1686047344	9 War	ning	2023-06-06 10:29:04 UTC	PVCCFA_EHV_CPU0_PWR sensor crossed a warning low threshold going low. Reading=1.000000 Threshold=1.000000.	0

Mark	Description
А	Alphabetical search
В	Date range search
С	Log deletion
D	Severity filter
E	Export of log to a json file

Filtering event logs

Enter one or more search criteria in the alphabetical search (A), date range (B) and severity (D) fields to filter the event logs displayed.

Exporting event logs

Click the arrow (E) to export an event log to a json file.

Deleting event logs

Click (C) to delete all event logs.

2.3. Checking the sensors

Displaying sensors

Sensors

From the Health tab, click Sensors. The Sensors page opens.

В 😂 Status Filter Α Q Fan × 6 of 21 items С 📽 Sensor type Filter Lower Current Upper Sensor Lower Upper ÷ Name Status type critical warning value warning critical 41800 FanO 5600 8206 40000 Fan OK 8000 RPM DIMM R RPM RPM RPM RPM 5600 40000 41800 Fan Fan1 CPU OK 8000 RPM 8252 RPM RPM RPM RPM 5600 40000 41800 Fan Fan2 CPU 8000 RPM 8183 RPM OOK RPM RPM RPM Fan3 5600 8104 40000 41800 Fan OK 8000 RPM DIMM L RPM RPM RPM RPM Fan4 5600 40000 41800 Fan OCK 8000 RPM 8115 RPM GPU RPM RPM RPM 40000 41800 5600 Fan Fan5 GPU OOK 8000 RPM 8241 RPM RPM RPM RPM

Mark	Description
А	Alphabetical search
В	Status filter
С	Sensor type filter

Filtering sensors

Enter one or more search criteria in the alphabetical search (A), date range (B) and severity (C) fields to filter the sensors displayed.

2.4. Collecting Logs

A log file is a collection of the logs for the connected server.

Displaying logs

From the Health tab, click Log Collect. The Log Collect page opens.



Logs available

B-	Q Sea	rch logs		1 items			
~	From dat	e		To date			
C-	YYYY-1	MM-DD	e	YYYY-MM-DD			
		🛊 Date a	nd time		≑ ID	\$ Size	D
		2023-06-0)1 12:37:53	UTC	i.	0.376 MB	⊻ <u>m</u> — E

Mark	Description
А	Log file creation
В	Alphabetical search
С	Data range search
D	Log file download
E	Log file deletion

Filtering logs

Enter the search item (B) and / or the date range (C) to filter the log files displayed.

Collecting logs

Note Due to space restrictions, it is advisable to delete the existing logs before perform a new log collect.

Click Get logs (A) to create a new log collection.



Exporting event logs

Click the arrow (D) to download a log file.

Deleting event logs

Click (E) to delete the log file.

Chapter 3. Controlling the system

3.1. Managing server power operations

3.1.1. Power management features overview

From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.

Server power operations

Current status

Host status Not available

Last power operation 2023-06-08 08:32:26 UTC Last memory size 448 GiB

Host OS boot settings



Operations

Reboot server

 Orderly – OS shuts down, then server reboots
 Immediate – Server reboots without OS shutting down; may cause data corruption



Shutdown server

 Orderly - OS shuts down, then server shuts down
 Immediate - Server shuts down without OS shutting down; may cause data corruption

Shut down

	Current Status
Host status	OnOffNot available
Last power operation	Date and time of last power operation
Last memory size	Memory size detected by the BIOS during last boot
	Host OS boot settings
Boot Setting Override	 None Pxe - Boots from a PXE server Hdd - Boots from a hard disk Diags - Boots from the diagnostic partition BiosSetup - Boots from the BIOS menu Usb - Boots from a USB key
Enable one time boot	Select to apply the boot setting once
Enable button for TPM Required Policy	Ensures the system will only boot if the TPM is fully functional. This feature can be enabled or disabled with the Enabled button
Save button	Saves the Host OS boot settings
	Operations
Power on button	Only visible when the server power status is Off Powers on the server
	Only visible when the server power status is Running
	 Orderly - Shuts down the operating system before the server reboots
Reboot server	 Immediate - Server reboots immediately without the operating system shutting down. N.B. Risk of data loss and corruption
	Reboot button - Reboots the server applying the reboot option selected
	Only visible when the server power status is Running
	 Orderly - Shuts down the operating system before the server shuts down
Shutdown server	 Immediate - Server shuts down immediately without the operating system shutting down. N.B. Risk of data loss and corruption
	Shut down button - Shuts down the server applying the shut down option selected

Checking Power State 3.1.2.

From the Control tab, click Server power operations. The Server power operations page opens.

Server power operations

Current status

Host status Off

Last power operationLast memory size1970-01-01 00:00:00 UTC240 GiB

	Current Status
	• On
Host status	 Off
	 Not available
Last power operation	Date and time of last power operation

3.1.3. Setting boot options

- 1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
- 2. In the **Host OS boot settings** section, select the boot setting required from the boot setting override drop-down list.

None			¢
None			
Pxe			
Hdd			
Diags			
BiosSet	up		
Usb			
Enab	ed		

F	lost OS boot settings
	None
	Pxe - Boots from a PXE server
Deat Satting Override	 Hdd - Boots from a hard disk
Boot Setting Override	 Diags - Boots from the diagnostic partition
	 BiosSetup - Boots from the BIOS menu
	 Usb - Boots from a USB key

3. If required, click **Enable one time boot** to apply the boot setting once.

4. If required, enable the **TPM required policy**, so that the system only boots when the Trusted Platform Module (TPM) is functional.

None		\$
Instance	0	0
🔲 Enable one tirr	ie boot	
TPM required policy		
Enable to ensure the	e system only boots w	hen the TPM
	system only boots w	hen the TPM
Enable to ensure the is functional.	e system only boots w	vhen the TPM

Host OS boot settings

5. Click Save.

3.1.4. Powering on the server

1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.

Operations

2. In the **Operations** section, click **Power on**.



Current status



Last power operation 2023-06-08 08:32:26 UTC Last memory size 448 GiB

Host OS boot settings

		\$
nstance	0	8
Enable one time b	oot	
PM required policy		
Enable to ensure the system s functional.	tern only boots wi	hen the TPM
Enabled		

Operations

There are no options to display while a power operation is in progress. When complete, power operations will be displayed here.

Note After initiating the power on of the system, there is a 30 second delay before the update of the host power status to avoid sensor fluctuation. It is therefore necessary to wait 30 seconds before refreshing the Server power operations page of the Server Hardware Console (SHC) to see the updated power status after a power on.

3.1.5. Rebooting or shutting down the server

- 1. From the **Control** tab, click **Server power operations**. The **Server power operations** page opens.
- 2. In the Operations section, select the mode and click Reboot or Shutdown.

Server power operations

Current status

Host status Not available

Last power operation 2023-06-08 08:32:26 UTC Last memory size 448 GiB

Host OS boot settings

None		\$
nstance	0	

TPM required policy

Enable to ensure the system only boots when the TPM is functional.

Enabled

Operations Reboot server



 Immediate – Server reboots without OS shutting down; may cause data corruption



Shutdown server

 Orderly - OS shuts down, then server shuts down
 Immediate - Server shuts down without OS shutting down; may cause data corruption



Chapter 3. Controlling the system 3-7

3.2. Connecting to the Keyboard, Video, Mouse (KVM)

From the **Control** tab, click **KVM**. The **KVM** page opens.



If the KVM is unresponsive, click **Restart** to restart KVM server.

Note The KVM keyboard layout can be configured with the KVM settings feature.

3.3. Connecting to the Serial Over LAN (SOL) console

1. From the **Control** tab, click **SOL console**. **The Serial over LAN console** page opens.

Serial over LAN (SOL) console

SOL console redirects the server's serial port output to this window.

Status: 🥝 Connected	🖸 Open in new tab
<pre>Starting Performance Metrics Collector Da Starting System Logging Service [OK] Reached target Remote File Systems (Pre). [OK] Reached target Remote File Systems. Starting Virtualization daemon Starting Permit User Sessions [OK] Started Notify NFS peers of a restart. [OK] Started System Logging Service. [OK] Started Permit User Sessions. [OK] Started Permit User Sessions. [OK] Started Job spooling tools. Starting Hold until boot process finishes Starting GNOME Display Manager [OK] Started GNOME Display Manager. [OK] Started GNOME Display Manager. [OK] Started GNOME Display Manager. [66.057178] bridge: filtering via arp/ip/ip6tab ble by default. Update your scripts to load br_net .</pre>	5 up bles is no longer availa
Red Hat Enterprise Linux 8.6 (Ootpa) Kernel 4.18.0-372.9.1.el8.x86_64 on an x86_64 Activate the web console with: systemctl enable localhost login:	-now cockpit.socket

- 2. If required, click the **Open in new tab** link to open the console in a new window.
- **Note** To access the BIOS settings click on the SOL screen and press the ESC key at the same time.

3.4. Creating a virtual media session

Note Only users with Administrator privilege have access to this feature.

1. From the Control tab, click Virtual media. The Virtual media page opens.



- 2. Click Add file.
- 3. Select an ISO file for the boot.
- 4. Click Start.

3.5. Configuring the power restore policy

The power restore policy determines how the system starts after a power disturbance.

1. From the **Control** tab, click **Power restore policy**. The **Power restore policy** page opens.



Save settings

2. Select the policy.

Power restore policy	Description
Always On	The system always powers on when power is applied
Always Off	The system always remains powered off when power is applied
Last state	The system returns to its last power state when power is applied

3. Click Save Settings.

3.6. Enabling or disabling the server identification LED

- Server ID LED LED light control Server indicator LED

2. Turn the server indicator LED on to identify the server.

See The Description Guide to locate the green identification LED at the front of the server.

1. From the **Control** tab, click **Server ID LED**. The **Server ID LED** page opens.

3.7. Resetting settings to default values

Important The server must be off before resetting the setting values as indicated below.

Note Only users with SupportUser privilege have access to this feature.

1. From the Control tab, click Reset to default. The Reset to default page opens.



These functions do not perform a secure delete of any sensitive data.

Reset options



Reset BMC settings

This option resets BMC settings, including: all BMC account data, all changed passwords, all policies, LDAP configurations, partition configuration, network static addresses, and time of day.



2. Select the components to reset and click **Reset**.

3. Carefully read the caution points.

Reset BIOS settings

	8	Healt
	Reset BIOS settings	×
ÐS e fu	Do you want to reset the BIOS settings?	
opt	 All manual settings will be deleted. Changes will be applied to the next OS boot.	
ese [.] ese	Resetting without shutting down the system might cause an unrecoverable error.	
is o Issv	Continue without shutting down the system	stal
ldre	Cancel Reset BIOS settings	

Reset BMC settings


- 4. Check the option **Continue without shutting down the system** if needed to go on.
- 5. Click **Reset BIOS settings** or **Reset BMC settings** depending on the function performed.
- 6. Use the SupportUser default account to connect to the SHC after the **Reset of the BMC settings**.

SHC login		
Username	Default: supportuser	
Password	Default: support@eviden	

3.8. Managing power usage

Note Only users with Administrator privilege have access to this feature.

1. From the **Control** tab, click **Manage power usage**. The **Manage power usage** page opens.

Manage powe	er usage
Set a power cap to keep power const	umption at or below the specified value in watts
Current power consumption	
Not available	
Power cap setting	
Apply power cap	
Power cap value (in watts)	
Value must be between 1 and 1000	
Save	

- 2. To set a power cap:
 - a. Select Apply power cap.
 - b. Set the power cap value in the **Power Cap Value (in watts)** box.
- 3. Click Save.

Note The power consumption and power cap value are indicated on the Overview page.

3.9. Rebooting the BMC

Note Only users with Administrator privilege have access to this feature.

1. From the Control tab, click Reboot BMC. The Reboot BMC page opens.



Last BMC reboot 2023-06-07 15:07:20 UTC

When you reboot the BMC, your web browser loses contact with the BMC for several minutes. When the BMC is back online, you may need to log in again.

Reboot BMC(s)

2. Click the **Reboot BMC** button and confirm.

A success message is displayed.

Reboot BMC



Chapter 4. Configuring the management controller

4.1. Setting the date and time

1. From the **Configuration** tab, click **Date and time settings**. The **Date and time settings** page opens.

Date and time	settings	
To change how date and time browser offset) throughout to Settings	e are displayed (either UTC or he application, visit Profile	
	24-hour time 08:11:25 UTC	
Configure settings O Manual		
Date YYYY-MM-DD 2022-01-11	24-hour time (UTC) HH:MM 08:11	
• NTP		-
Server 1	Server 2	Server 3

- 2. Select the date and time configuration:
 - Manual
 - Network Time Protocol (NTP) servers
- **Note** It is recommended to configure an NTP server. Time and date settings configured manually will be lost when the BMC is reset.
- 3. Click Save settings.

4. Click Profile Settings at the top of the page. The Profile settings page opens.

0

Profile settings

Profile information

Username admin Privilege Administrator

Change password

New password



Timezone display preference

Select how time is displayed throughout the application

Timezone



Save settings

- 5. Select the timezone display:
 - Default
 - Browser offset
- 6. Click Save settings.

4.2. Managing firmware versions

1. From the **Configuration** tab, click **Firmware**. The **Firmware** page opens.

Firmware

Firmware version

Component	Version
BIOS	BIOS_ESR160.37.01.001
ВМС	160.02.0004
FPGA	1.E.O.O

Update firmware

Image file			
Only .tar, .tar.gz files accepted			
Add file	Force Update		
Firmware update may take up 10 minutes due to security features			
Start update			

2. To update a firmware version, click **Add file** to select the firmware version file, and click **Start update**.

Notes It is strongly recommended to power off the system before updating the BIOS and FPGA firmware. After a BIOS firmware update, the boot option is reset to PXE. It is therefore necessary to change the boot option after the update if PXE is not desired boot option. Select the Force Update box to reinstall the same firmware version.

4.3. Configuring network settings

Note The server hostname may be modified in the screen below. 1. From the Configuration tab, click Network settings. The Network settings page opens. Network settings Configure BMC network settings Changing BMC network settings may result in a loss of the remote connection to the BMC. Please ensure that all the values are correct before applying changes so that you can reconnect remotely to the BMC. **Global settings** Hostname 🖉 Use domain name Use DNS servers Use NTP servers Disabled Disabled Disabled spark eth0 Interface settings FQDN MAC address 08:00:38:bd:68:9e spark IPv4 DHCP Enabled IPv4 addresses ⊕ Add static IPv4 address IP address Gateway Subnet mask Address origin XX.XX.XX.XX 0.0.0.0 255.255.0.0 IPv4LinkLocal Ū XX.XX.XX.XX 0.0.0.0 255.255.255.0 DHCP Static DNS Add IP address IP address No items available

	Global settings		
Hostname	The server hostname: it must be a combination of upper case letters (A to Z), lower case letters (a to z) and numbers (0 to 9). The only authorized special character is the hyphen (-)		
Use domain name	enables or not domain name usage		
Use DNS servers	enables or not DNS server usage		
Use NTP servers	enables or not NTP server usage		
	Interface settings		
FQDN	Fully Qualified Domain Name used by the DNS server		
Mac address	The server MAC address		
	IPv4		
DHCP	When enabled, the server IP address is retrieved from a DHCP server		
IP address	Server IP address		
Gateway	Gateway IP address		
Subnet mask	Sub-net mask to be used		
Address origin	DHCP or Static or IPv4LinkLocal		
Add Static IPv4 address	Click this button to add a static IP address		
Static DNS			
IP address	DNS IP address		
Add IP address Click this button to add a DNS IP address			
VLAN			
VLANId	VLAN interface identifier		
Add VLAN Interface Click this button to add a VLAN interface identified			

- 2. Fill in Hostname.
- 3. Select IPV4 configuration: DHCP or Static.

- 4. Add a static IP address if required.
- 5. Add a DNS server if required.
- 6. Add a VLAN interface if required.
- 7. Click Save settings.

4.4. Configuring Rsyslog

1. From the **Configuration** tab, click **Rsyslog**. The **Rsyslog** page opens.

Rsyslog		
Enable Syslog Forwarding		
IP address	Port O	
Save settings		

Rsyslog		
Enable Syslog Forwarding	When selected, this option allows events to be sent by the syslog protocol on a Linux platform, in order to centralize all the events	
IP address	Syslog server IP address	
Port	Syslog server listening port	

- 2. Select **Enable Syslog Forwarding** and complete the fields as required.
- 3. Click Save settings.

4.5. Configuring KVM settings

1. From the **Configuration** tab, click **KVM settings**. The **KVM settings** page opens.



- 2. Select the keyboard layout language from the drop-down list.
- 3. Click Save settings.

4.6. Configuring Global settings

1. From the **Configuration** tab, click **Global settings**. The **Global settings** page opens.

Platform Name
Managed Server Name
Save settings

- 2. Complete the required fields.
- 3. Click Save settings.

Chapter 5. Managing users

5.1. Managing client sessions

1. From the Access control tab, click Client session. The Client sessions page opens.

Q Sea	arch sessions	4 items		
	Client ID	Username	IP address	
	0Uusq9L9wh	admin	XXXXXXXX	Disconnect
	3m69dprWbM	oper	XXXXXXXX	Disconnect
	gnuR9f84uC	usertest_1	XXXXXXXX	Disconnect
	O8d4bbcD1k	usertest_2	XXXXXXXX	Disconnect
20	Items per page			< 1 >

2. To disconnect the user, click **Disconnect**.

Client sessions

5.2. Configuring LDAP

1. From the Access control tab, click LDAP, the LDAP page opens.

LDAP			
Configure LDAP settings and manag	e role groups		
Settings LDAP authentication			
Enable			
Secure LDAP using SSL A CA certificate and an LDAP certificate are required to enable secure LDAP	Service type OpenLDAP Active Directory		
Enable	Server URI	Bind DN	Bind password
CA Certificate valid until	ldap://		0
LDAP Certificate valid until	Base DN	User ID attribute - optional	Group ID attribute - optional
Manage SSL certificates			
Save settings			
Role groups			
LDAP authentication must b	e enabled to modify role groups.		
		① Add role group	
Group name	🔷 Group privile	ge	
	No items available		

Settings			
Enable LDAP authentication	Allows LDAP authentication to be configured		
Secure LDAP using SSL	ecures LDAP server using a Secure Socket Layer ertificate		
Manage SSL certificates	Redirects to the SSL certificates page. The link is active when LDAP authentication is enabled		
Service type	Selects the LDAP service type:Open LDAPMicrosoft Active Directory		
Server URI	Idap:// <ldap ip="" server=""></ldap>		

Settings				
Bind DN Bind Distinguished Name				
Bind password	Bind user password			
Base DN	Base Distinguished Name. The point from which a server will start searching for users			
User ID attribute The log in attribute that uniquely identifies a sing user record				
Group ID attribute	The log in attribute that uniquely identifies a group user record			
Save settings button	Saves the configurations			
	Role groups			
Role groups enable a set administrators or speciali	of permissions to be assigned to a group of st users.			
Group name	Group name			
Group privilege	Role assigned to the group			

2. Set the configuration and click **Save settings**.

5.3. Managing local users

5.3.1. Viewing a user list

From the Access control tab, click Local user management. The Local user management page opens.

Local user management

	Ę	Account policy settings	🕀 Add user
Username	Privilege	Status	
admin	Administrator	Enabled	2 🔟

	Local user management				
Username Name the user uses to log on					
Privilege Role assigned to the user					
Status When enabled, the user account is active and the user is able to log on. When disabled, the user's account is unavailable: the user's account is maintained but it is no longer possible to log on using this account					
	Buttons				
Edit button to display and modify the user account					
Ū	Remove button to delete the user				

5.3.2. Viewing privilege roles

- 1. From the Access tab, click Local user management. The Local user management page opens.
- 2. Click View privilege role descriptions to display the roles.

Local user management

		🔞 Account policy settings	🕀 Add user
Username	Privilege	Status	
test_user1	ReadOnly	Enabled	2 ū
admin	Administrator	Enabled	2 11
supportuser	SupportUser	Enabled	<u>2</u> 11
oper	Operator	Enabled	<u>2</u> ū
no_user	NoAccess	Enabled	ø ū
test_user2	Administrator	Enabled	2 ū

[∧] View privilege role descriptions

Privilege	Administrator	SupportUser	Operator	ReadOnly	NoAccess
Configure components managed by this service	\checkmark	\checkmark			
Configure manager resources	~	\checkmark			
Update password for current user account	~	\checkmark	~	\checkmark	
Configure users and their accounts	\checkmark	\checkmark			
Log in to the service and read resources	~	~	\checkmark	\checkmark	

Operator users do not have access to the following SHC pages:

- Reset to default
- Manage power usage
- Reboot BMC
- Date and time settings
- Rsyslog
- KVM settings
- Global settings

ReadOnly users do not have access to the following SHC pages:

- KVM
- SOL console
- Reset to default
- Manage power usage
- Reboot BMC
- Date and time settings
- Rsyslog
- KVM settings
- Global settings

5.3.3. Setting the account policy

- 1. From the Access tab, click Local user management. The Local user management page opens.
- 2. Click the **Account policy settings** tab. The **Account policy settings** page opens.

d to r	nodule0 (Master) Account policy settings	😣 Health 🛛 🔊 Power	•
	Max failed login attempts Value must be between 0 – 65535 0	User unlock method Manual Automatic after timeout Timeout duration (seconds)	Account policy so itatus inabled
		Cancel Save	

	Account policy settings				
Max failed login attemptsThe number of failed login attempts allowed. must be set between 0 (default) and 65535					
Manual A locked user account stays locked until it is unlocked manually					
Automatic afterAutomatic unlock after the period set in the Timeouttimeoutduration parameter					
Timeout duration (seconds)	Period in seconds during which the user account remains locked. The minimum setting is 1 second				

- 3. Complete the fields as required.
- 4. Click Save.

5.3.4. Creating a new user account

- 1. From the Access tab, click Local user management. The Local user management page opens.
- 2. Click **Add user** tab. The **Add user** page opens.

nodule0 (Master)	🗭 Health 🛛 🔊 Power	🗄 Partitioning
Add user	;	×
Account status	User password	
• Enabled	Password must be between 8 – 20 characters (i)	
 Disabled 	 	Account policy
Username		Status
Cannot start with a number No special characters except	Confirm user password	
underscore	0	Inabled
Privilege		
Select an option 🗘		
	Cancel Add user	

	Add user
Account status enabled	When selected, the user account is active and the user is able to log on. This is the default status
Account status disabled	When selected, the user's account is unavailable
	Name the user uses to log on
Username	 Names cannot start with number
	 Special characters are not allowed except underscores
Privilege	Use the drop-down list to select the role to assign to the user
	The password the user will use to log on
User password	 The password must be between 8 and 20 characters long
Confirm user password	 The password must be a mixture of upper case letters, lower case letters, numbers and special characters
	The password must be different from the user name

- 3. Complete the fields as required.
- 4. Click **Add user**. The user is created.

5.4. Managing SSL certificates

5.4.1. Viewing SSL certificates

From the **Access control** tab, click **SSL certificates**. The **SSL certificates page** opens.

SSL certificates

			① Generate CSR		\oplus Add new certificat		ficate
Certificate	Issued by	Issued to	Valid from	Valid u	ntil		
HTTPS Certificate	BULL	BULL	2022-01-09	2032-01	1-07	G	Ī

SSL certificates					
Certificate Certificate name					
Issued by	Certificate details				
Issued to	- Certificate details				
Valid from	Validity pariod				
Valid until	Validity period				
Actions					
Remove button to delete the certificate					
Refresh button to check if a more up-to-date version of certificate is available					

5.4.2. Adding a certificate

1. From the Access control tab, click SSL certificates. The SSL certificates page opens.

2. Click the Add new certificate tab. The Add new certificate page opens.

d to mod	ule0 (Master)	🗭 Health	N Power	🔄 Parti	tioning	🕄 Refresh	🙁 root 👻
	Add new certificate		×				
S.	Certificate type						
	LDAP Certificate		÷	ate CSR	🕀 Add	new certificate	
C	Certificate file			Valid u	ntil		
H	Add file			2032-01	1-07	GĒ	
		Cancel	Add				

- 3. Use the drop-down list to select a certificate type. There are two possible options:
 - LDAP Certificate
 - CA Certificate
- 4. Click **Add file** and select a certificate file.

Note The certificate file must be a .pem file.

5. Click Add.

5.4.3. Generating a Certificate Signing Request (CSR)

Important A valid SSL certificate is required to use the HTTPS protocol. By default, a temporary certificate is delivered. For optimum security, it is advised to generate and install a new certificate.

1. From the Access control tab, click SSL certificates. The SSL certificates page opens.

Certificate type	Country	Private key	
Select an option	Select an option	Key pair algorithm	
		Select an option 🗢	new certificate
State	City		
			G 🗇
Company name	Company unit		
Common name	Challenge password - optional		
Contact person - optional	Email address - optional		
Alternate name - optional			
Add multiple alternate names separa	ated by space		

~		. .			. •	
2.	Click the	Generate	CSR tab.	The CSR	generating	page opens.

Certificate Signing Request (CSR)					
	Select an option:				
Certificate type	 HTTPS Certificate 				
	 LDAP Certificate 				
Country	Select a country				
	Select:				
Private key - Key pair algorithm	• EC				
	■ RSA				
State	Name of the state				
City	Name of the city				
Company name	Name of the company				
Company unit	Generally the name of the department				

Certificate Signing Request (CSR)					
Common name	"Fully Qualified Domain Name" (FQDN) example: hostName.DomainName.Top- LevelDomain. If the Common Name differs from the network name, a security warning will pop up when the system is accessed using HTTPS				
Challenge password - optional	Depending on the certification authority it may be necessary to define a challeng password to authorize later changes to the certificate (example: revocation of th certificate). The minimum length of this password is four characters				
Contact person - optional	Generally the administrator's name				
Email address -optional	Generally the administrator's email address				
Alternate name - optional	Multiple alternate names separated by space				

- 3. Complete the fields. Define the key pair algorithm for the private key:
 - For RSA key pair algorithm, select the key bit length
 - For EC key pair algorithm, select the key curve ID
- 4. Click **Generate CSR** to generate the CSR.
- 5. Click **Download** to save the CSR to the computer or Copy to save its content into the clipboard and send it to the Certification Authority, who will check the information, and then generate and return a signed certificate.
- 6. When the signed certificate is received, use the **Add new certificate** tab to install the certificate.

5.4.4. Deleting a certificate

1. From the Access control tab, click SSL certificates. The SSL certificates page opens.

2. Click the remove button for the required certificate.

Generate CSR ⊕ Add new certificate Certificate Issued by Issued to Valid from Valid until HTTPS Certificate BULL BULL 2022-01-09 2032-01-07 S []

3. Click **Remove** in the confirmation dialog box to remove the certificate.

5.4.5. Updating a certificate automatically

- 1. From the Access control tab, click SSL certificates. The SSL certificates page opens.
- 2. Click the refresh button for the required certificate.

SSL certificates

			(+) Gener	ate CSR	\oplus Add new certificate
Certificate	Issued by	Issued to	Valid from	Valid u	ntil
HTTPS Certificate	BULL	BULL	2022-01-09	2032-01	I-07 🖸 🗓

3. The certificate will be updated if a newer version is available.

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