

BullSequana Servers

OneBSM Console Reference Guide

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Hardware

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Preface

This guide explains how to use the OneBSM console to monitor and maintain Eviden systems.

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

OneBSM console is a graphical management and monitoring system for the following servers:

- BullSequana SH
- BullSequana EXR/EXD
- BullSequana SA

OneBSM will manage and monitor all the BullSequana servers detected on the local network.

BullSequana servers can be viewed within OneBSM individually or grouped together according to server type. The interface is dynamic according to server type.

Note The terms 'device' and 'server' are interchangeable in this guide.

1.1. Installing OneBSM console

1.1.1. Linux systems

To install use the command below:

dpkg -i filename.extension

To uninstall use the command below:

dpkg --purge onebsm

1.1.2. Windows systems

- 1. Launch the OneBSM installer.
- 2. Choose the installation folder.
- 3. Click finish to end the installation process.

Note This will install OneBSM on all Windows versions and launch the related services.

1.2. Connecting to the OneBSM console for the first time

Note On virtual machines the full IP address must be used and not "localhost".

- 1. Open a web browser on a laptop.
- 2. Enter the IP address or host name of the server, on the same network, hosting the OneBSM console. The OneBSM console authentication window opens.



3. Enter the first time user name and password.

Note For the first log in the user name = *admin* and the password = *password*.

4. Click the LOGIN button. The change password setup wizard opens.

Password IP Range		
Username *	admin	
Password *	password	••••
	Password must be at least 8 characters long.	
	Password must contain at least 1 lowercase letter.	
	Password must contain at least 1 uppercase letter.	
	Password must contain at least 1 number.	
	Password must contain at least 1 special character.	
Confirm New Password *	Confirm new password	
Enable 2EA authentication		

- 5. Enter the new user name and password.
- 6. Click Next. The IP Range Setup Wizard opens

Password IP R	ange	
Description*	Description	
Start IP*	Start IP	
	i IP must be an IPv4 or IPv6 forr	nat.
End IP*	End IP	
	IP must be an IPv4 or IPv6 forr	nat.
Discovering Devices	Using The Below Username And Password	
username	admin	
password		
		Skip Don

Note Click Skip to postpone the device discovery. See 2.1. Adding devices to the Device List

- 7. Enter the **Start IP** and the **End IP** for the IP address range for the devices on the network to be included in the OneBSM device list.
- Note It is recommended to check Discovering Devices Using the Below Username and Password for the BMC user name and password. However, to use this functionality the BMC username and password will need to be known and be the same for all the detected devices on the network. If this box is not checked the devices in the device list will be locked and the BMC username and password will have to entered individually for each device.

8. Click **Done.** The **Add Device** screen opens with the list of detected devices.

BMC IP	MAC	Туре
10.007174.008	100103-00106-00104	BullSequana SA
10.007178-10	$(\alpha,\beta)=(\alpha,\beta)=(\alpha,\beta)$	BullSequana SH
10.007174-10	10.00.00.00.00.00.00	BullSequana SH
10.007174-007	10.00	BullSequana SH
10.007/01/01	10.00.00.00.00.00.00	BullSequana Edge
10.007/00.000	10.00.00.00.00.00	BullSequana SH
10.00717-0.007	101003-0030-001-0	BullSequana SH
10.007174-001	10.00.00.00.00.00.00	BullSequana SA
10.007178-008	100000-00000-00-00	BullSequana SH
100000	101-011-021-021-021-021	BullSequana SH

9. The IP range results are displayed. Click the checkbox(A) and click **Add**. This will initiate a discovery action after which all the supported selected devices will be added to the **Device List**.

The OneBSM Device List summary window opens.

1.3. Logging in to the OneBSM console

Users log in to the system using the account and password created in the user account list.

Procedure

Note On virtual machines the full IP address must be used and not "localhost".

- 1. Open a web browser on a laptop.
- 2. Enter the IP address or host name of the server, on the same network, hosting the OneBSM console. The OneBSM console authentication window opens.

		EVIDEN Orebsm		
	٢	admin		
	ᠿ		0	
		IOGIN		
Version: X.X.X				

- 3. Enter the user name and password.
- 4. Click the **LOGIN** button.
- 5. If two-factor authentication (2FA) is enabled, click the authenticator icon to get the verification code, which is usually a six-digit number in Chrome.
- 6. Enter the verification code into the input box and click the **Verify** button.
- **Note** The 2FA code must be validated at the same time on both the OneBSM system and the server. Otherwise, login might fail due to a verification code timing out. For more information, please refer to the time settings section.

See Appendix A. Logging in with the 2FA authentication

The OneBSM Dashboard Device List summary window opens.

1.4. OneBSM console features

The OneBSM console menu tabs provide access to sub-menus to configure and maintain OneBSM and connected devices

Tab	Item
	Discovery
Devices	Device List
	Groups
	Account Management
Configuration	Notification Settings
Configuration	Database
	System Settings
	Audit Log
	System Log
Maintenance	Alert Log
	Update System
	Export Config

1.5. Dashboard overview

The **Dashboard** provides an overview of all connected servers on the network, displaying information such as health status, alert logs, power consumption distribution, total power consumption history, and a list of scheduled tasks with their completion status.

The **Device List** total indicates the number of connected servers whose data is displayed.

Note Some operations, for example, viewing OneBSM alerts, can be performed directly from the buttons on the Dashboard or via the sub-menus.



Mark	Description
А	Devices menu
В	Configuration menu for OneBSM
С	Maintenance menu for OneBSM
D	Refresh button
E	Time configuration button
F	Scheduled Tasks button
G	Alerts button
Н	User button
1	Export Data button
J	Power Consumption wheel
К	Health Status wheel
L	Alert wheel

The Health Status wheel shows the device breakdown for each state: Healthy, Critical, Warning, and Other.

The **Alert** wheel shows the number of device breakdown for each state: **Unknown**, **Non-critical**, and **Critical**.

The **Power Consumption** wheel shows the device breakdown for each power range: **0–500 Watts**, **501–1000 Watts**, **1001–3000 Watts**, and above **3001 Watts**.

See Click on the wheel segments to see the devices for each state.

The **Total Power Consumption History** linear chart shows the variations in power consumption for all devices over a 24-hour period.

The **Completed Schedule Tasks List** provides details of the completed tasks. The information displayed can be modified by clicking the three vertical dots at the end of the list of columns.

Chapter 2. Managing devices

The **Devices** tab includes three sub-pages to discover, list and group the manageable devices detected on the network.

2.1. Adding devices to the Device List

There are three ways of detecting and adding manageable devices to the OneBSM console **Device List** :

- Using the **Discovery** page to search for devices within a range of IP addresses.
- Adding a single device to the **Device List** by specifying its IP address.
- Importing devices listed within a .txt file

2.1.1. Discovering devices

Discovery is used to scan machines on the network and to display existing scan segments. It is possible to set a range of IP addresses for a scan, configure scan intervals, and use specific user names and passwords for scanning.

Note Each scan, as set by the scan interval, will also refresh other details periodically, for example BMC hostname, the network configuration and inventory information.

Additionally, it is possible to delete, edit, or re-scan each IP range's data using the action icon buttons.

A keyword search function is available.

Setting a range of IP addresses for a scan

Start IP	End IP	Segment Name	Total Devices	Progress (%)			
1.01.71.00	100000	SA20g	1	100 %	0	ď	Ű
1.01110.00	10.00710.00	EXR	1	100 %	0	ď	Ű
1.01110-00	10.007/01.046	multimodule	4	100 %	0	ď	Ű
1.01110.00	10.00710.00	SH20	4	100 %	0	ď	Ũ
	100710-00	MultiModule	4	100 %	G	ď	Ú
-	-	SH80-03-4s	3	100 %	o	ď	Ű
1.0110.00	10.007/00/08	SH20	2	100 %	0	ď	Ũ
1.101	wards as	SH Multimodule echirolles	4	100 %	0	ď	Ú
and the second second	-	SH80-04 (4 Part)	8	100 %	0	В	Ĩ

1. From the **Devices** tab, click **Discovery**.

- **Note** All input data should be in a valid format, and the IP address range must not be a duplicate
- 2. From the **Discovery** page, click the **Create** button
- 3. Enter the Start IP and End IP for the IP address range.
- 4. Set the scan interval for the IP range.

Scan Interval	Start IP	Create a new IF	Prange	>
Per hour	10.197.176.	Description*	Segment 5	
Per hour	10 . 197.176.	Start IP*	Start IP	
Per day	10.197.176		IP must be an IPv4 or	IPv6 format.
Once	10.197.176.	End IP*	End IP	
Once	10.197.176.		IP must be an IPv4 or	IPv6 format.
Once	10.197.176.	Scan Interval	Once	~
		Discovering De Password	vices Using The Below Userr	name And
		username	admin	
		password		

5. Click Save.

BMC IP	MAC	Туре
10.00110.008	100103-00105-00105-0	BullSequana SA
10.007170.00	$(\alpha,\beta)=(\alpha,\beta)=(\alpha,\beta)$	BullSequana SH
100000	10.01120-00120-00120	BullSequana SH
10.007170.007	10.00	BullSequana SH
10.007174.005	10.00100.00100.0010	BullSequana Edge
10.007170.008	10.00.00.00.00.00	BullSequana SH
1000	10,000,000,000,000,000	BullSequana SH
10.007170.001	10,000,000,000,000,000	BullSequana SA
10.007178.008	100000000000000000000000000000000000000	BullSequana SH
10.007	101-011-021-021-021-021	BullSequana SH

6. The IP range results are displayed. Click the checkbox(A) and click **Add**. This will initiate a discovery action after which all the supported selected devices will be added to the **Device List**.

Editing an existing range of IP addresses for a scan

Note All input data should be in a valid format, and the IP range must not be a duplicate.

- 1. Click the **Edit** button.
- 2. Modify the input data for the IP range.
- 3. Click the **Save** button. The result will be displayed on the screen.

Edit IP range		×
Description*	Segment 1	
Start IP*	10.107179.112	
End IP*	10.187176.112	
Scan Interval	Per hour	~
username	user	
password	•••••	
	Save	

2.1.2. Adding a device to the Device List

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **Add Device.**

Add Device		>
Description*	þescription	
IP*	IP	
	IP must be an IPv4 or IPv6 format.	
Discovering Device	s Using The Below Username And Password	
username	admin	
password	•••••	
username password	admin ••••••	

- 3. Enter the IP address and a description for the new device.
- 4. Click Add.

2.1.3. Importing devices to the Device List

Note The .txt file must be in the format BMC IP, Username, Password.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **Import Device.**

Descriptions	Description	
Description*	Description	
File*	No file selected.	٢
	The supported file extension is .	txt. The content format
	is "BMC IP, Username, Password".	

- 3. Add a Description of the device.
- 4. Fetch the .txt file with the device details.
- 5. Click Import.

2.2. Viewing devices

From the **Devices** tab, click **Device List** to view all the servers on the network managed and monitored by **OneBSM.**

All BullSequana servers are displayed or they can viewed by server type: BullSequana SA, BullSequana EXR/EXD, BullSequana SH.



Various details are shown for the devices listed, including :

Note The information displayed in the device list can be configured by clicking the three vertical dots at the end of the list of columns.

- Power status
- Node monitor
- Health status
- Connection status
- Segment name for the IP range
- Hostname
- IP address for the BMC
- Power Consumption in watts
- Model name
- Rescan this device button

Note The Rescan this device button refreshes device details, for example BMC hostname, the network configuration and inventory information. The Scan All button does the same for all listed devices, however this is a time consuming operation. Using these features does not clear existing sensor history information stored for the device(s).

The Device List page also includes **Add Device** and **Import Device** buttons to add devices to the device list.

Double click on a server row to view more details and to perform management and monitoring operations.

Note It is not possible to redirect to a server's page if the Status indicates Wrong Password. In this case the correct BMC user name and password must be entered

A keyword search function will filter data according to the keyword entered.

2.3. Accessing a device page

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. If a device with a Wrong Password status is selected, the system will redirect to the **Settings** page and the BMC password and username will have to be reset.

Device List 3 All 3 Device (10.1198.73)		
	Account Management	
BVC Username *	Usemane	
	Username is required.	
BMC Password *	Password Password k required.	
	Save	

2.4. Filtering devices

From the **Dashboard**, click the health status, alert or power consumption range. A list of devices with the selected status, alert or power consumption range opens.

Dev	ice List >	AE				Model All	- Power All	🗸 Status All	 Q,Search 	h
								Scan All	Add Device Imp	port Device
	Node Monitor	Power	Status	Connection	Description	Hostname	BMC IP	Power Consumption (W) &	Model Name	1
		0	A	•	Segment 3	mesca5mod=04.bmc.lab.frec.bull.fr	1010707070	742	BullSequana SH20	0
		0		•	Segment 4	mesca5mod-41.bmc.lab.frec.bull.fr	10.001170.00	373.75	BullSequana SH20	C
		0	A	•	SA Server 2	bssa21-10.bmc.lab.frec.buil.fr	10107076-008	313	SA21Ga	C
		0	•	•	SA Server 1	bssa21-09.bmc.lab.frec.bull.fr	10107176-008	186	SA21Ga	C

2.5. Turning on / off the indicator LED for a device

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.

< ware Update	Sensor Monitor	Event Log	Remote Control	Power Consumption	Account Mana(>
Indicator LED & Power Control	Indicator LED			Power Control	
Power Policy & Boot Options					
				Ċ)
	On	~	Submit	On	• Submit

- 4. From the **Remote Control** tab, click the **Indicator LED & Power Control** button.
- 5. Choose an option to turn on / off the LED or to make it blink for a specific duration.

Note The default duration for the LED to stay on is 15 seconds.

The result of the LED operation will be displayed on the screen, and the light bulb icon will update to reflect the current LED status.

Chapter 3. Managing groups of devices

3.1. Grouping devices

Note Different server types cannot be grouped together.

- 1. From the **Devices** tab, click **Device List.**
- 2. Select servers for the new group by checking their check boxes (A).
- 3. Click the **Group** (B) button.

Devic	e List 🗲	All				Model All	v Power	Al 🗸 Status Al	• QSearch	
							Select All Der	select All Selected Items: 3	Add To Group Delete	Export
•	Node Monitor	Power	Status	Connection	Description	Hostname	BMC IP	Power Consumption (W) 4	Model Name	1
		0	4	•	Segment 3	mesca5mod+04.bmc.lab.frec.bull.fr	10.00110.02	739.50	BullSeguana SH20	C
		0	4		Segment 4	mesca5mod-41.bmc.lab.frec.bull.fr	10.00100-0	372.50	BullSeguana SH20	C
		0	4	•	SA Server 2	bssa21-10.bmc.lab.frec.bull.fr	10.007179.238	313	SA21Ga	C
		0	4	•	SA Server 1	bssa21-09.bmc.lab.frec.bull.fr	10.00710.000	187	SA21Ga	C
	010	0		•	1st Import	bsexr02-bmc	10.000	12	BullSequana EXR	O
		0		•	1st Import	mesca5mod-37.bmc.lab.frec.bull.fr	10.007103.008	0	BullSequana SH80	C
	ONO	0			Segment 2	mesca5mod-40.bmc.lab.frec.bull.fr	10.007170.008	0	BullSequana SH80	C
								Item	s per page: 7 1 - 7 of 7	

4. Enter the group details and select a platform type for the group.

Group	Name*	Group		
Зroup	Description	Group Description		
Foup	Platform*	BullSequana SH		~
Jroup	Member*	QSearch)	
	BMC IP	Hostname	MAC	Platform
	10.00710.00	mesca5mod-41.bmc.lab.frec.bull.fr	08:00:38:bd:5d:dd	BullSequana SH
	10.007170.008	mesca5mod-40.bmc.lab.frec.bull.fr	08:00:38:bd:5d:d1	BullSequana SH
	10.007170.008	mesca5mod-37.bmc.lab.frec.bull.fr	08:00:38:bd:5d:ce	BullSequana SH
	10.00710-02	mesca5mod-04.bmc.lab.frec.bull.fr	08:00:38:bd:5d:bf	BullSequana SH
		Items	er page: 10 - 1-	4 of 4 💿

5. Click the **Group** button to submit the data and to see the results on the screen.

3.2. Viewing device groups

1. From the **Devices** tab, click **Group.** All existing groups are displayed, including details of group members.

Group			Create	\supset
Group Name	Group Description	Group Platform	1	
Group	2xSH20	BullSequana SH	C t	
Group SA 1	Group SA 1	BullSequana SA	C t	
			Items per page: 2 1 - 2 of 2	>

2. Click on a row in the Group table to see the devices sub-menus, for example, firmware update.

< Grou	p Single Dev	rice List	Firmware Upda	ate Bios C	onfiguration	Remote Control	Power Consu
Node Monitor	Health Status	Power	Connection	Hostname	BMC IP	MAC	Model Name
	A	0	•	Unknown	10.001100.00	in the second second	BullSequana SH80
	A	0	٠	Unknown		and the second second	BullSequana SH80

Each group can be deleted or edited using the action icon buttons.

A keyword search function will filter data according to the keyword entered.

3.3. Editing a device group

Note Different server types cannot be grouped together.

- 1. From the **Devices** tab, click **Group.**
- 2. Click the **Edit** button in the last column of the Group table for the group to be edited.
- 3. Modify the group's fields, as required.
- 4. Check the group box to add a device to a group,
- 5. Click the **Save** button to submit, and the result will be shown on the screen.

Group Na	me*	Group1		
Group De	scription	Please enter the group descri	ption	
Group Pla	tform*	Sequana SH		×
Group Me	mber*	QSearch		
Group	BMC IP	Hostname	MAC	Platform
		Unknown	08:00:38:bd:5d:ce	Sequana SH
		Unknown	08:00:38:bd:5d:d7	Sequana SH
		mesca5mod-03.bmc.lab.frec.bull.fr	08:00:38:bd:5d:d4	Sequana SH
		mesca5mod-41.bmc.lab.frec.bull.fr	08:00:38:bd:5d:dd	Sequana SH
		mesca5mod-42.bmc.lab.frec.bull.fr	08:00:38:bd:5f:bd	Sequana SH
		mesca5mod-43.bmc.lab.frec.bull.fr	08:00:38:bd:5e:39	Sequana SH
		mesca5mod-44 bmc lab frec bull fr	08:00:38:bd:5f:ab	Seguana SH

Save

3.4. Turning on / off the indicator LEDs for a group

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. From the **Remote Control** tab, click the **Indicator LED & Power Control** button.



4. Choose an option to turn on / off the ID LED or to make it blink for a specific duration.

Note The default duration for the LED to stay on is 15 seconds.

The result of the LED operation will be displayed on the screen, and the light bulb icon will update to reflect the current LED status.

Chapter 4. Configuring devices

4.1. Obtaining product information

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Product information** tab. The **Product Information** sub-page opens with board and product details.

tion)6- 31:00.000Z \$789AB FS0-000	
06- 31:00.000Z 3789AB FS0-000	
06- 31:00.000Z 3789AB FS0-000	
06- 31:00.000Z 5789AB FS0-000	
5789AB FS0-000	
FS0-000	
292-AAV1-000	
V4721A0003	
lount Chassis	
E8A-00043	
V4721A0003	
-	N4721A0003

4.2. Configuring device settings

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Overview** tab. Information is displayed about the system, firmware version, network, time settings and inventory status of the device.

Note For BullSequana SH multi-module servers additional buttons are available at the top of the page to select the individual BullSequana SH modules that make up the multi-module server.



Mark	Description
А	OneBSM path to device overview.
В	Device sub-menus including : Inventory details, Firmware Update, Sensor Monitor, Event Log, Remote Control, Power Consumption.
С	Network Information including device IP address , gateway and mac address.
D	System Information including device health status, power status and hostname.
E	Firmware Information including firmware versions for the server,
F	Time information including NTP settings.

Mark	Description	
G	Status of Inventory indicates the health status of the components included in the inventory.	
Н	Export BMC Information button	
I	Reboot BMC button	

Device sub-menus

The Device sub-menus displayed at the top of the page for a server vary according to server type.

See Appendix B. Server conf	iguration sub-menus
-----------------------------	---------------------

4.3. Powering on / off a device

4.3.1. Powering on / off from the Overview window

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Overview** tab.
- 5. Use the slider button to turn the power on or off as required.
- 6. Click the **Submit** button.

						0
stem Informat	tion	Network Information	on		Status of Inventory	
ealth Status	A	IPv4 Source	DHCP		CPU	٠
ower Status	0 000	IPv4 Address	10.107174.108	e	Memory	•
ostname	bsexr-02.bm	Subnet Mask	2010.0101.0401.0		Fan	•
		Gateway	1.0.0.0		Temperature	
odel Name	BullSequana EXR	MAC	10.10.30 cs.44 at		Maltana	
atus	SECURED				voitage	
cure Boot atus	Functional Time Information			Fan Redundancy	•	
tal CPU	1	Time 8/8/2024 09:07:20		Power Redundancy	•	
tal Memory	4		AM			
	Submit	Automatic NTP D Time	ate & 💽			
ware Inform	ation	Primary NTP Serv	ver undefined			
s	BIOS_SAR160.78.04.012					
4.3.2. Powering on / off a device from the Remote Control window

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. From the **Remote Control** tab, click the **Indicator LED & Power Control** button.

< nfiguration	Sensor Monitor	Event Log	Remote Control	Power Consumption	Account Managemen: >
Indicator LED			Power	Control	
		Cubmit			

- 5. Choose an option to perform actions such as **On,Off**, **Hard Reset**, or **Graceful Shutdown**.
- 6. Click the **Submit** button.
- 7. Confirm the action in the warning dialogue box.

The result will be displayed and the power icon will update to reflect the new power status.

4.4. Configuring power limits for BullSequana SA servers

Note The power limitation option applies to BullSequana SA servers only.

Power Limit settings allow a power limit to be set and activated.

- 1. Activate the power limit by clicking the slide toggle.
- 2. Enter the power limit value. The maximum power limit must not exceed 32,768 Watts,



4.5. Configuring power restore settings

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.

ndicator LED & Power Control	Power Restore Policy	Boot Option	
Power Policy Boot	Set the power restore policy for the BMC after restart. The options could be to turn on, turn off, or maintain the previous power state.	Boot Enabled	Disabie 👻
ptions	O Previous Power State	Boot Mode	UEFI 👻
	 Always On Always Off 	Boot Target	Nome 👻
	(Submit)		Submit

- 5. Select the power restore policy, as required.
- 6. Click the **Submit** button. The system reloads and displays the new settings.

4.6. Changing the host name

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Overview** tab.
- 5. Double-click the **Hostname** field to enter edit mode.
- 6. Enter the new host name. To cancel, right-click or double-click again.
- 7. Click the **Submit** button. The system reloads and displays the new settings.

erview P	Product Information					
						0
stem Informat	tion	Network Information	on		Status of Inventory	
lealth Status	A	IPv4 Source	DHCP		CPU	٠
ower Status	0 000	IPv4 Address	10.007174.008	Θ	Memory	٠
ostname	bsexr-02.bm	Subnet Mask	2010/2010 2010 2		Fan	٠
lodel Name	BullSeguana EXR	Gateway	1.1.1.2		Temperature	
ecurity	SECURED	MAC	10.10.30.00.00.00		Voltage	٠
ecure Boot	Functional	Time Information		-	Fan Redundancy	
atus	1	-			Power Redundancy	٠
atal Memory	4	lime	8/8/2024, 09:07 AM	:20		
	Submit	Automatic NTP D Time	ate & 💽			
mware Inform	ation	Primary NTP Serv	ver undefined			
os	BIOS_SAR160.78.04.012					

4.7. Changing the device time settings

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Overview** tab.
- 5. Change the time settings, as required.
- 6. Click the **Submit** button. The system reloads and displays the new settings.

verview	Product Information				
System Informat	lon	Network Informatic	20	Status of Inventory	0
Health Status	A	IPv4 Source	DHCP	CPU	
Power Status	0	IPv4 Address	10.197.176.118 00	Memory	
Hostname	mesca52s- 🐵 🥒	Subnet Mask	255.255.240.0	Fan	
Model Name	BullSeguana SH20	Gateway	10.197.188.1	Temperature	•
Security	FULL-DEV	MAC	08:00:38:bd:5d:d4	Voltage	
Secure Boot	Functional	Time Information		Fan Redundancy	•
fotal CPU	2	Time		Power Redundancy	•
Total Memory	0	08/	08/2024 09:26:25		
Total Modules	1	Automatic (011	C		
irmware Inform	ation	& Time			
BIOS	BIOS_SAR120.79.01.009	Primary ntp	.lab.frec.bull.fr		
BMC	152.04.0018	Server			

4.8. Viewing network settings

See The SHC Reference Guide for **BullSequana EX** and **BullSequana SH** servers for more information about network settings.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Overview** tab.

ystem info	rmation	Network Informat	ion		Status of Inventory	
Health Status	A	IPv4 Source	DHCP		CPU	٠
Power	0	IPv4 Address	1.00	0	Memory	٠
dostrame	mesca5mod- co cd	Subnet Mask	000.000.000.4		Fan	•
	38.bmc.lab.frec.bull.fr	Gateway			Temperature	
Nordel	BullSequana SHB0	MAC	10.00.00.00.00.00	_	Voltage	
Security Status	DEV-PROD				Fan Redundancy	•
lecure	Functional	Time Information			Power Redundancy	
soot Status		Time	7/13/2024, 19:28:01	đ		-
lotal Aodules	2	Automatic NTP 6 & Time	ate 💷			
innware inf	formetiken					
lios	BIOS_SAR120.79.01.009					
amo	162.00.1447					

4.9. Updating device firmware

Note The firmware listed, and that can be updated, varies according to server type.

To update firmware for a single device:

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Select the device and click the **Firmware Update** tab. The firmware update window opens
- 5. Choose the **Upload Type**, either a local path or a remote path, for the file.

Firmware Version				
BIOS	8011, 248122, 74.01 (80			
вмс	101.00.000			
CEB_IO_FPGA				
CEB_MAIN_FPGA	44.44			
CEB_PFR_CPLD	8423			
CEB_P_CPLD	4535			
Indate Details				
pdate Details	Local			v
pdate Details pload Type	Local			
pdate Details pload Type hoose A File To U	Local ploa No file chosen			۲
pdate Details pload Type hoose A File To U] Force Upgrade	Local ploa No file chosen			œ
pdate Details pload Type hoose A File To U Force Upgrade p allow flashing th	Local ploa No file chosen	on, please enable this feature. Otherwise, it may	be rejected.	۲

- 6. Select the Firmware Image Type to update.
- 7. If uploading from a local path, select the image to update. Otherwise, click the **Start Firmware Update** button to proceed with remote path setup.
- 8. If using a remote path, enter the remote path details, such as protocol type, server address, and image name.

4.10. Configuring boot options

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. From the Remote Control tab, click the Power Policy & Boot Options button.

≺ vare Update	Sensor Monitor Event Log	Remote Control	Power Consumption	Account Manag∉ >
Indicator LED & Power Control	Power Restore Policy	0	Boot Option	
Power Policy & Boot Options	Previous Power State Always On		Boot Enabled	Disablec 🗸
	Always Off		Boot Mode	UEFI 🗸
		Submit	Boot Target	None 🗸
				Submit

5. Select the boot options, as required.

Target	Description
None	
Pxe	Boots from a PXE server
Hdd	Boots from a hard disk
Diags	Boots from a diagnostic partition
BiosSetup	Boots from the BIOS menu
Usb	Boots from a USB key

6. Click the **Submit** button. The system reloads and displays the new settings.

4.11. Mounting virtual media for BullSequana SA servers

Note This procedure applies to BullSequana SA servers only.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Remote Control** tab. The Remote Control window opens.
- 5. Click the Virtual Media button. The Virtual Media window opens

Indicator LED & Power Control	Virtual Media	The process may take a few minutes.
Virtual Media		
Power Policy &	Share Type of Remote Media	NFS CIFS HTTP
Boot Options	Server Address for CD/DVD Images	None
	Path in Server	e.g. /opt/bmc/nfs
	Image Name	None

- 6. Enter the share type, server address, path on the server, and image name. No input is needed for unmounting.
- 7. Toggle the switch to perform mount or unmount actions.
- 8. The result of the virtual media operation will be displayed on the screen.

Note If the image is successfully mounted, it will start and run on the target IP.

4.12. Creating a BMC user account

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. From the Account Management sub menu click Create.

Information Inventory Fir			~	sumption	Account Management
User-account	User Name*	Please enter the user name			
		 Username must be 3 to 30 characters long. Username must not contain any special characters. 			Create
D	Password*	Please enter the password		÷	
operator		Password must be at least 8 characters long.		C Ó	
admin		 Password must contain at least 1 lowercase letter. Password must contain at least 1 uppercase letter. 		C 0	
eason23		 Password must contain at least 1 number. Password must contain at least 1 special character. 		C 0	
reader	Confirm New Password*	Please confirm the password		C Ó	
supportuser	Role*	Administrator	*	C 0	
				Items per page	±5 1 − 5 of 5 < >

- 5. Enter the user account details, as required.
- 6. Click **Save**. The result is displayed on screen.

4.13. Editing a BMC user account

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. From the **Account Management** sub menu, select the user account.
- 5. Click the **Edit User Account** button on the right.

Edit User Acco	bunt	3
Enable user account	ON	
Modify Usern	ame	
User Name*	reader	
Modify User's	Password	
Password*		
Confirm New Password*	•••••	
Role*	ReadOnly	~
	(Sava)	

- 6. Change the BMC user account details, as required.
- 7. Click **Save**. The result is displayed on screen.

Chapter 5. Configuring device groups

5.1. Updating group firmware

- **Note** The firmware listed, and that can be updated, varies according to server type.
- **Notes** For group firmware updates, only the local path is supported for the **Upload Type**.
- 1. From the Devices page, click Groups.
- 2. In the **Group** window, click on the group required.
- 3. Click the Firmware Update tab. The firmware update window opens
- 4. Select the Firmware Image Type to update.

Group Single Devic	e List	Firmware Update	Bios Configuration	Remote Control	Power Consumption	Settings
Firmware Version						
BIOS	111,148	and the state of the				
BMC	-					
CEB_IO_FPGA	-					
CEB_MAIN_FPGA	+					
CEB_PFR_CPLD	*****					
CEB_P_CPLD	****					
ETH_SWITCH_MSM						
MSM_FPGA						
Jpdate Details Jpload Type	Loc	al				Ų
Choose A File To Uplo	No No	file chosen				٢
Force Upgrade						
o allow flashing the	same or old	er firmware version, pleas	e enable this feature. Otherwise,	it may be rejected.		
Varning : Please note that after	entering th	e update mode, the widge ddle of the wizard, the de	ets, other web pages and service vice will be reset only for BMC BO	s will not work. All the ope DOT, and APP components	n widgets will be automatically o of Firmware.	losed. If the
ogradation is cancelle						

- 5. Select the local path for the file to be uploaded.
- 6. Click Start Firmware Update.

7. Choose the **Execution Task type**, either immediate or scheduled.



8. Enter the **Date** and **Time** if scheduled for later.

Schedule Tasks		×
Task Name	schedule task 0311	
Interval	Once(Only Execute Task Once)	~
Date	2024/03/11	
Time	05:30	0
	Save	

5.2. Powering on / off a device group

- 1. From the **Devices** page, click **Groups**.
- 2. In the Group window, click on the group required.
- 3. From the **Remote Control** tab, click the **Indicator LED & Power Control** button.

Group (Group Name: Group1) > Remote Control	Disc Operformation - Depute Operated
Group Single Device List Firmware Opt	ate Blos Configuration Remote Control
Indicator 12D	Power Control
N14	
On + Salarit	Off ~ Submit

- 4. Choose an option to perform actions such as **On**, **Off**, **Hard Reset**, or **Graceful Shutdown**.
- 5. Click the **Submit** button.
- 6. For group power control, decide whether the task should be executed immediately or at a scheduled time.



7. If scheduled, enter the scheduled time for the task. The result will be displayed after saving. Otherwise, the result will be shown immediately.

5.3. Configuring group power restore settings

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.

Indicator LED & Power Control	Power Restore Policy	Boot Option	
Power Policy & Boot	Set the power restore policy for the BMC after restart. The options could be to turn on, turn off, or maintain the previous power state.	Boot Enabled	Disabie 👻
Options	O Previous Power State	Boot Mode	UEFI 👻
	Always On Always Off	Boot Target	Nome 👻
	Submit		Submit

- 4. Select the power restore policy, as required.
- 5. Click the **Submit** button. The system reloads and displays the new settings.

5.4. Configuring group boot options

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.

🕻 vare Update	Sensor Monitor	Event Log	Remote Control	Power Consumption	Account Manag∈ >
Indicator LED & Power Control	Power Restore Pol	icy	0	Boot Option	
Power Policy & Boot Options	Previous Po Always On	wer State		Boot Enabled	Disablec 🗸
	Always Off			Boot Mode	UEFI 🗸
			Submit	Boot Target	None 🗸
					Submit

4. Select the boot options, as required.

Target	Description
None	
Pxe	Boots from a PXE server
Hdd	Boots from a hard disk
Diags	Boots from a diagnostic partition
BiosSetup	Boots from the BIOS menu
Usb	Boots from a USB key

5. Click the **Submit** button. The system reloads and displays the new settings.

5.5. Mounting virtual media for BullSequana SA server groups

Note This procedure applies to BullSequana SA servers only.

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. Click the **Remote Control** tab. The Remote Control window opens.
- 4. Click the **Virtual Media** button. The Virtual Media window opens

Virtual Media	The process may take a few minutes.
Share Type of Remote Media	NFS CIFS HTTP
Server Address for CD/DVD Images	None
Path in Server	e.g. /opt/bmc/nfs
Image Name	None
	Virtual Media

- 6. Enter the share type, server address, path on the server, and image name. No input is needed for unmounting.
- 7. Toggle the switch to perform mount or unmount actions.
- 8. The result of the virtual media operation will be displayed on the screen.

Note If the image is successfully mounted, it will start and run on the target IP.

Chapter 6. Monitoring devices

6.1. Viewing sensor data for a device

The **Sensor Monitor** page displays the status, readings, and thresholds of all sensors for a device. A chart of historical readings for each sensor is also available.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the Sensor Monitor tab. The Sensor Monitor window opens.
- 5. Select the sensor type : Temperature, Fan, Voltage, or Other.

stion Inventory	Femware Op	date	Bios Configuration	Sensor	Monitor	Event Log	Remote C	ontrot Pow
Temperature	Sensor Reading							
Fan Voltage		5003	Serisor Name	Reading	Lower Critical	Lower Non- Critical	Upper Non- Critical	Upper Critical
A Other		٠	CPU0 Inlet Temp	33.50	NA	5	05	70
		•	CPU1 inlet Temp	36.56	NA	5	65	70
		•	DIM L Outlet Temp	34.69	NA	5	65	70
		•	DIM M Inlet Temp	35	NA	5	65	70
		•	DIM M Outlet Temp	35.38	NA	5	65	70
			DIM R Outlet Temp	35.88	NA	5	65	70
			LHD F8 Temp	27.13	NA	5	65	70
			LHU FB Temp	27.25	NA	5	65	70
		•	Left Side Rear Board Temp	36.56	5	10	60	65
			PSU0 Hot Spot Temp	49.25	5	10	95	100

6. Select an individual sensor.

Scroll down the page to see the Sensor Reading History. The time interval (A) and period (B) can be changed, as required.



6.2. Viewing Event Logs

Each entry in the Event Log table includes the Event ID, Severity (representing the event level), Sensor name, Time stamp, and Event description. The **Severity** attribute has four levels: **Healthy, Critical, Warning**, and Unknown.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Select the device and click the **Event Log** tab. The Event Log window opens.

guration	Sensor Mo	nitor Event Log	Remote Control	Power Consumption Account Management	Settings	>
					\bigcirc	$\underline{\vee}$
All	~				QSearch	
Sel ID	Severity	Sensor	Time	Description		
1725008884	•	System Event Log Entry	2024-08-30 09:08:04+00:00	User 'monitor' logged in from host '::ffff: 197110.56		
725008884_1	•	System Event Log Entry	2024-08-30 09:08:04+00:00	User 'monitor' logged out.		
725008585	•	System Event Log Entry	2024-08-30 09:03:05+00:00	User 'monitor' logged in from host '::ffff:10197160 597.		
1725008585_1	•	System Event Log Entry	2024-08-30 09:03:05+00:00	User 'monitor' logged out.		
1725008287	•	System Event Log Entry	2024-08-30 08:58:07+00:00	User 'monitor' logged in from host '::ffff:		
1725008287_1	•	System Event Log Entry	2024-08-30 08:58:07+00:00	User 'monitor' logged out.		
1725007983	•	System Event Log Entry	2024-08-30 08:53:03+00:00	User 'monitor' logged in from host '::ffff: 10197100 for.		
1725007983_1	•	System Event Log Entry	2024-08-30 08:53:03+00:00	User 'monitor' logged out.		
1725007684	•	System Event Log Entry	2024-08-30 08:48:04+00:00	User 'monitor' logged in from host '::ffff:		
1725007684_1	•	System Event Log Entry	2024-08-30 08:48:04+00:00	User 'monitor' logged out.		

- 5. Filter the data by Event Direction, Severity level and Sensor Type, as required.
- 6. Use the options to clear all event log data or to download all event log data, as required

6.3. Obtaining inventory details

Note The components listed on the inventory page vary according to server type.

The CPU, and DIMM sub-pages also show the current status for these components.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Click the **Inventory** tab.
- 5. Click the tab for the component required.

≺ Fir	mware Update	Sensor M	Monitor	Event Log	Remote Contro	l Powe	er Consumption	Acco	ount Management >
CPU	DIMM PCI-E	Stora	ige PS	SU					
Status	Location	Name	Cores	Manufacturer	Family	External Clock	Max Speed	Speed	Reading
•	Module0_CPU0	Intel Core	32	INTEL	N/A	100 MHz	3400 MHz	1900 MHz	Processor Presence Detected
•	Module0_CPU1	Intel Core	32	INTEL	N/A	100 MHz	3400 MHz	1900 MHz	Processor Presence Detected

6.4. Viewing power consumption for a device

The **Power Consumption History** section displays the changes in power consumption over a specific period using a line chart. It is possible to change the range of the period using the time range drop-down above the chart. Additionally, it is possible to navigate through the current day, week, or month using the previous and next buttons at the bottom of the chart.

The **Consumption Reading** section shows the maximum, minimum, average, and current power consumption values.

- 1. From the **Devices** tab, click **Device List**.
- 2. From the **Device List** page, click **All** or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 4. Select the device and click the **Power Consumption** tab. The Power Consumption window opens,



6.5. Viewing carbon emissions for a device

The **Carbon Emission History** graphs shows changes in carbon emissions over a specific period, using a line chart.

See 8.8.3. Modifying carbon emission viewing settings

- 1. From the **Devices** tab, click **Device List**.
- 2. From the Device List page, click All or select server type.
- 3. Click on the server required in the list, the Information page opens.
- 3. Click the **Power Consumption** tab. The Power Consumption window opens.
- 4. Scroll down page to see the Carbon Emission History graphs.
- 5. Move the cursor along the graph to see specific measurements.



Chapter 7. Monitoring groups

7.1. Viewing power consumption for a group

The **Power Consumption History** section displays the changes in power consumption over a specific period using a line chart. It is possible to change the range of the period using the time range drop-down above the chart. Additionally, it is possible to navigate through the current day, week, or month using the previous and next buttons at the bottom of the chart.

The **Consumption Reading** section shows the maximum, minimum, average, and current power consumption values. For groups of devices, it displays the total power consumption of all group members.

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. Select the group and click the **Power Consumption** tab. The Power Consumption window opens.



7.2. Viewing carbon emissions for a group

The **Carbon Emission History** graphs shows changes in carbon emissions over a specific period, using a line chart. For daily periods, each hour has its own factor. For weekly and monthly periods, the average carbon emission factor is calculated for each month and applied to the chart.

See 8.8.3. Modifying carbon emission viewing settings

- 1. From the **Devices** page, click **Groups**.
- 2. In the **Group** window, click on the group required.
- 3. Select the group and click the **Power Consumption** tab. The Power Consumption window opens.
- 4. Scroll down page to see the Carbon Emission History graphs.



Chapter 8. Configuring OneBSM

The **Account Management** page is used for managing user accounts and is divided into two sections: User Account and Role Permissions

8.1. Viewing user accounts

The User Account sub-page displays a table listing all user accounts.

Each row displays the enabled status for the user account, user name, privilege level, and whether 2FA (two-factor authentication) is enabled.

Procedure

- 1. From the Configuration tab, click Account Management.
- 2. From the **Account Management** page, click the **User Account** tab. The list of existing users and their details is displayed.

Account Mana	gement 💙 User Acc	count				
User Acco	DUNT LDAP Se	tting Role Permiss	ion			
						Create
Enable	Username	Privilege	2FA authentication			
	hachar2	ROLE_ADMIN	OFF	Ľ		
	1000	ROLE_USER	OFF	ß	1	
	hactor	ROLE_ADMIN	OFF	ß	Ū	
	franceis	ROLE_ADMIN	OFF	ß	0	
	10,000	ROLE_ADMIN	OFF	ß	1	
	1000	ROLE_ADMIN	OFF	ß	1	
	and the	ROLE_USER	OFF	ß		
				Items per page: 7	1 – 7 of 7	

8.2. Creating a user account

See Appendix A. Logging in with the 2FA authentication

- 1. From the Configuration tab, click Account Management.
- 2. From the **Account Management** page, click the **User Account** tab.
- 3. From the User Account page, click Create.
- 4. Enter the required user account details.
- 5. Click **Save**. The result is displayed on screen.

username	١
 Username must be 3 to 30 characters long. Username must not contain any special characters. 	
password	ø
 Password must be at least 8 characters long. Password must contain at least 1 lowercase letter. Password must contain at least 1 uppercase letter. Password must contain at least 1 number. Password must contain at least 1 special character. 	
Confirm new password again	P
ROLE_USER	~
OOFF	
	Username Username must be 3 to 30 characters long. Username must not contain any special characters. Dassword Password must be at least 8 characters long. Password must contain at least 1 lowercase letter. Password must contain at least 1 uppercase letter. Password must contain at least 1 number. Password must contain at least 1 special character. Confirm new password again ROLE_USER

8.3. Editing a user account

- 1. From the Configuration tab, click Account Management.
- 2. From the Account Management page, click the User Account tab.
- 3. From the **User Account** page, click the **Edit** button next to the user account to be modified.
- 4. Change the user account details, as required.
- 5. Click **Save**. The result is displayed on screen.

Edit User Account
Image: state sta



Please verify 2FA code in 120 seconds and press the save button.

Verify

Save

8.4. Configuring role permissions for users

Note The different accesses for each role permission is as shown in the image below.

- 1. From the **Configuration** tab, click **Account Management**.
- 2. From the Account Management page, click the Role Permissions tab.
- 3. From the **Role Permissions** page, enable / disable the privileges for each user role, as required.

Account Management > Role Permissions User Accounts LDAP Settings	Role Permissions			
	ADMIN	OPERATOR	MANAGER	USER DEFINED
User Account Management 🔞				
Access to create, edit, and delete all system and LDAP user accounts.	\bigcirc	\otimes	\otimes	\otimes
Remote Control Access 🚯				
Access to perform management tasks including firmware updates and managing BMC user accounts.	0		\otimes	\otimes
Virtual Media Access 🕕				
Access to use virtual media.			(\mathbb{X})	(\times)
Power Control Access 🚯				
Access to perform remote power operations and modify power- related settings.	0	\bigcirc	\otimes	\otimes
Logs (Modify/delete) 🕕				
Access to modify or delete the alert logs.		\otimes		\otimes
Configuration 🕕				
Access to modify OneBSM settings as well as discover or add new devices.	\bigcirc	\otimes	\bigcirc	\otimes

Note It not possible to modify the privileges for the Admin role.

8.5. Configuring OneBSM notification settings

The **Notification Settings** page is used for sending an e-mail when an alert is generated.

- 1. From the Configuration tab, click Notification Settings.
- 2. From the **Notification Settings** page, select Exchange service, fill in the Exchange server fields, enable NTLM and add the destination e-mail address.

SMTP			
SMTP Settings		Send	Test Message Clear Save Settings
Service*		Exchange	1
Host*		10756	
Port*		25	
From Address*		Onebsm@lab.local	
Authentication		Corp	
NTLM*		CH O	
			(Insert) Delete All
Enable	Email Address	Event Level	
	administrator@lab.local	All	(i)

3. Click Save Settings.

8.6. Configuring and backing up the OneBSM database

The **Database Usage** page displays details about the OneBSM database, including database usage statistics, maintenance options, and data retention intervals.

When backing up the database, the system generates a zip file containing all the data. The download process typically takes three to five minutes.

Clicking the **Reset Database** button will clear all data from the database.

Procedure

- 1. From the Configuration tab, click Database.
- 2. From the **Database Usage** page, modify the maintenance and log settings, as required.
- 3. Click Save Settings.

Database Usage 255.80 MB Used (Free Space:83 GB)	Database Restore	No file c	
Database usage and free space Database Usage Free Space	opload The	R	estore
	Database Retention		
	System Log	30	Days
	Audit Log	30	Days
Free Space Usage: 83	Sensor & Power History	30	Days
Reset Database Backup	Alert Log	30	Dave

8.7. Resetting the OneBSM database

Important Resetting the OneBSM database will clear everything from the database.

- 1. From the **Configuration** tab, click **Database**.
- 2. From the Database Usage page, click Reset Database.

Database 0	255.80 MB Use	d (Free Space:83 GE
	Database usage and f	ree space
	Database Usage	Free Space
		_

3. Click **Yes** on the warning screen.

The OneBSM console returns to the first login screen.

See 1.2. Connecting to the OneBSM console for the first time

8.8. Configuring OneBSM system settings

8.8.1. Modifying the automatic log-out setting

The automatic log-out interval determines how long the system can remain idle before automatically logging out.

- 1. From the Configuration tab, click System Settings.
- 2. From the System Settings page, change the Auto Logout Timeout, as required.

Auto Logout Timeout Settings		
Auto Logout System Every	1 day	~
	(Save Settings
Device Settings		
Background service scan BMC IP interval	5 minutes	-
Connection timeout between server and BMC	80	
	0	Save Settings
Carbon Emission Settings		
🔿 Advance 🔵 Basic		
Carbon Emission Factor	0.63	
Carbon Emission Factor	0.43	(See

3. Click Save Settings.

8.8.2. Modifying BMC scan settings

The background service scan for the BMC impacts metrics for sensors, health status, and power consumption. It does not clear existing sensor history information stored for the device. The scanning interval for the sensor values from the device BMC can also be changed.

Procedure

- 1. From the Configuration tab, click System Settings.
- 2. From the **System Settings** page, change the device scan settings as required.

stem Settings	
Auto Logout Timeout Settings	
Auto Logout System Every	1 day 👻
	Bave Settings
Device Settings	
Background service scan BMC IP interval	5 minutes ~
Connection timeout between server and BMC	60
	Save Settings
Carbon Emission Settings	
O Advance 🔵 Basic	
Carbon Emission Factor	8.43
	Save

3. Click Save Settings.

8.8.3. Modifying carbon emission viewing settings

Two modes are available for viewing and editing carbon emissions.

- Basic mode : only a single factor value can be entered, which will be applied to all timestamps in the carbon emission factor table.
- Advance mode : it is possible to view and edit the carbon emission factor table with hourly and monthly data.

Procedure

1. From the Configuration tab, click System Settings.

Auto Logout Timeout Settings		
Auto Logout System Every	1 day	v
		Save Settings
Device Settings		
Background service scan BMC IP interval	5 minutes	
Connection timeout between server and BMC	80	
		Save Settings
Carbon Emission Settings		
Advance 🔵 Basic		
Carbon Emission Factor	0.63	
		(Savo
- 2. From the Carbon Emission Settings pane select Advance or Basic.
 - a. In **Basic** mode enter the factor value directly into the field.

Carbon En	nission Fa	ctor Cour	try								- [Spain											~
O Choos	e 'Current	' to show	the curve	t carbon (enission f	actor data	, or eba, o	house a s	country to	show its -	arbon en	tation fa	ctor clata.										
Month	00:00	01:00	02:00	03.00	04.00	05:00	05:00	07:00	05:00	09:00	10:00	11:00	12.00	13.00	14.00	15.00	16.00	17:00	18:00	19:00	20.00	21:00	22:00
JAN	0.37	0.38	0.58	0.37	0.37	0.37	0.37	0.87	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.58	0.38	0.37	0.37	0.35
FEB	0.27	0.27	0.24	0.37	0.37	0.37	0.27	0.27	0.37	0.37	D.37	0.37	D.37	0.37	0.37	0.37	0.37	0.37	0.37	D.37	D.37	0.37	0.37
MAR	0.37	0.37	0.87	0.37	0.37	0.37	0.37	0.98	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
APR	0.35	0.26	0.27	0.37	0.37	0.5	0.27	0.26	0.37	0.37	0.37	0.37	D.37	0.37	0.37	0.37	0.37	0.37	0.37	D.36	D.36	0.35	0.35
MAY	0.35	0.37	0.37	0.37	Grabie :	click to start a	rend total	0.36	0.37	0.37	0.37	0.37	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.35
JUN	0.37	0.58	0.58	0.38	0.36	0.35	0.33	0.57	0.37	0.57	0.37	0.37	0.37	0.37	0.38	0.38	0.36	0.38	0.37	0.37	0.37	0.37	0.37
300	0.38	0.39	0.4	0.38	0.38	0.39	0.39	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37
AUG	0.37	0.58	0.58	0.39	0.39	0.39	0.39	0.57	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.36	0.38	0.58	0.58	0.38	0.37	0.37
SEP	0.35	0.37	0.37	0.38	0.38	0.35	0.55	0.57	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
OCT	0.37	0.35	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
NOV	0.37	0.37	0.57	0.37	0.37	0.37	0.37	0.57	0.37	0.57	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
DEC	0.37	0.35	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
4																				Espor		port (5110 5110

b. In **Advance** mode:

- i. Update the table with factor data
- ii. Select a country from the drop-down to apply its factor data.
- iii. Double-click a value in the table to edit it manually.
- iv. Import factor data by uploading a file in the **.csv** format, as shown.

A I		C	D	Е	7	a .	н	1	- F - 1	K	L	M	м	0	P	q	R	5	T	U	¥	w	x	. 7
1 Month	00:00	01:00	02:00	03:00	04:00	05:00	06.00	07:00	08.00	09.00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17000	38:00	19:00	20:00	21:00	22:00	23,00
2 JAN	0.37	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.37	0.37	0,38	0.37
3 FEB	0.37	0.37	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
4 MAR	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
5 AFR	0.36	0.36	0.37	0.37	0.37	0.37	0.37	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36
6 MAY	0.36	0.37	0.37	0.37	0.37	0.37	0.38	0.36	0.37	0.37	0.37	0.37	0.35	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0,36	0.36
7 JUN	0.37	0.38	0.38	0.38	0.38	0.38	0.39	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37
8 JUL	0.38	0.38	0.38	0.38	0.38	0.39	0.39	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37
9 AUG	0.37	0.38	0.38	0.39	0.39	0.39	0.39	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.37	0.37
10 SEP	0.36	0.37	0.37	0.38	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0,37	0.37	0.37	0,37	0.35
IL OCT	0.37	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0,37	0.37	0.37	0,37	0.37	0.37	0.37	0,37
12 MOV	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
13 DEC	0.37	0.36	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0,37

- v. Select the **Current** option in the country drop-down to apply the current carbon emission factor data.
- vi. Any modified values in the table will be marked.
- 3. Click **Save** to view the results.
- 4. If required, click **Export** to export the carbon emission factor data in the **.csv** format.

Chapter 9. Managing OneBSM

9.1. Viewing OneBSM audit logs

Audit logs shows the specific history on OneBSM activity including, including log ins, account creation, deletion, and action results.

Records are displayed in a paginated table, with a maximum of 50 rows per page.

- 1. From the Maintenance tab, click Audit Log.
- 2. From the Audit Log window, click Search to filter logs, as required.
- 3. Click Clear All to clear all the logs.
- 4. Click Export Data to download audit log data.

				Clear All E	xport Data QSearch
User Name	Timestamp	Client IP	Action	Description	Result E
admin	10/18/2024, 16:01:28	110.001001006	LOGIN	Login success	SUCCESS
admin	10/18/2024, 15:55:29	10.007300.005	LOGIN	Login success	SUCCESS
admin	10/18/2024, 15:38:47	10.007.002.003	UPDATE	Execute update manual group "Group"	SUCCESS
admin	10/18/2024, 15:37:51	10.007.000.000	CREATE	Execute create manual group "Group"	SUCCESS
admin	10/18/2024, 15:28:05	10.007.000.000	DELETE	Delete node list	SUCCESS
admin	10/18/2024, 15:27:18	10.007380.003	LOGIN	Login success	SUCCESS
admin	10/18/2024, 15:17:57	10.001080.003	LOGIN	Login success	SUCCESS
admin	10/18/2024, 15:10:49	112.00.003.008	LOGIN	Login success	SUCCESS
admin	10/18/2024, 14:26:06	10.007.000.000	LOGIN	Login success	SUCCESS
admin	10/18/2024, 14:00:26	10.00708-008	CREATE	Execute add IP range "10.197.176.13 ~ 10.197.176.13"	SUCCESS
				Items per page: 10) → 1 = 10 of 42 < >

9.2. Viewing OneBSM system logs

System logs show abnormal state sensor records for target IP addresses.

Records are displayed in a paginated table, with a maximum of 50 rows per page.

- 1. From the Maintenance tab, click System Log.
- 2. From the System Log window, click Search to filter logs, as required.
- 3. Click **Export Data** to download system log data.

Syste	m Log		Clear All Export Data QSearch
	Timestamp	Description	Result :
	10/18/2024, 11:41:07	Common Gettoken :	FAILED
	10/18/2024, 11:40:23	Common Gettoken :	FAILED
	10/17/2024, 19:34:08	Common Gettoken :	FAILED
			Items per page: 10 • 1 - 3 of 3 < >

9.3. Viewing OneBSM alert logs

Alert logs show records related to sensor health, such as sensor readings. Click on the warning icon for an alert log to get more details.

The number displayed above the icon indicates the number of alert events that have occurred. If the total number of alerts exceeds 99, it will be shown as 99+.

Each data row in the alert log can be expanded by clicking on it. The expanded section will display all alert details for the target IP address .

- 1. From the Maintenance tab, click Alert Log.
- 2. From the **Alert Log** window, click **Search IP** to filter logs for a particular IP address, as required.
- 3. Click Clear All Alerts to clear the alerts listed.
- 4. Click Export Data to download audit log data.

Alert Log				Q Search IP
			Clear A	II Alert Export Data
IP	Hostname	MAC	Count	
10.107174.00	bue-sa25-19	16/03/40/78/18/08	34	v

Items per page: 1 1-1 of 1 < >

9.4. Updating the OneBSM system

- 1. From the Maintenance tab, click Update System.
- 2. From the **Update System** window, update the private and public SSL files, as required.
- 3. Click Update OneBSM server to update the version of OneBSM installed.

Jpdate System	
Update SSL keys of OneBSM server	
No file chosen	۲
Please upload the public key of SSL files (.pem accept only)	
No file chosen	۲
Please upload the private key of SSL files (.crt accept only)	
	Update oneBSM keys
Please upload the public key of SSL files (.pem accept only) o file chosen Please upload the private key of SSL files (.crt accept only) date OneBSM server la file chosen	Current Version: x.x.
No file chosen	\odot
Please upload the OneBSM application (.exe, .zip or .zi_ accept only)	
	Update oneBSM server

9.5. Exporting the OneBSM configuration settings

Notes

A full backup of OneBSM, including the database, can only be performed from the **Configuration > Database** tab.

OneBSM system settings are stored in a.**JSON** file.

- 1. From the Maintenance tab, click Export Config.
- 2. From the **Export Config** window, click **Export** to export the OneBSM setting config file.
- 3. Wait 3 to 5 seconds for the settings file to export.

Export OneBSM setting config file	
	Export
Restore OneBSM setting	
	0
No file chosen	(\uparrow)

9.6. Restoring OneBSM configuration settings

Notes

A full backup of OneBSM, including the database, can only be performed from the **Configuration > Database** tab.

OneBSM system settings are stored in a.**JSON** file.

- 1. From the Maintenance tab, click Export Config.
- 2. From the **Export Config** window, select the restore .JSON file.
- 3. Click **Update** to restore the OneBSM setting config file.
- 4. Wait 3 to 5 seconds for the settings file to update.

Export OneBSM setting config file	
	Export
Restore OneBSM setting	
Restore OneBSM setting No file chosen	

9.7. Setting the system time and timezone for OneBSM

Note The date and time shown on this page reflects the time of the Operating System where OneBSM is installed. Modifying the settings will also modify the settings of the OS.

1. From the Dashboard task bar, click the **Time** button (A).



- 2. From the Time window, change the time and timezone, as required,
- 3. Click Save.

Tue Jul 16 2024 17:02:20 GMT+0200 (Central European Summer Time)	
UTC +02:00 Europe/Paris	
16/07/2024 05:02 pm	
Europe/Paris +02:00	~
	Save
	Tue Jul 16 2024 17:02:20 GMT+0200 (Central European Summer Time) UTC +02:00 Europe/Paris 16/07/2024 05:02 pm Europe/Paris +02:00

9.8. Viewing scheduled tasks

Click the **Schedule Tasks** button in the menu bar.

							Î		
EVIDEN	Dashboard	Devices -	Configuration -	Maintenance -	0	()	ā	A ³³ 오	🌐 en 🝷
Dashboa	rd > Device Lis	st							

Δ

The Scheduled Tasks windows displays tasks according to one of three statuses:

The Incomplete Schedule Tasks List table includes information such as task name, task type, target, starting time, ending time, and interval. The interval for each task can be once, which means the task runs once at the scheduled date and time. Other options are daily or weekly, indicating the task will execute every day at the scheduled time or every week on the scheduled weekday and time includes the same details as the Completed Task List table. Tasks in the incomplete table can be run immediately or deleted using the action buttons.

hedula	Tatks							
compi	ete Tesk List					Select Ali Deselect Ali	Selected being	: 2 0 00
-	Task Name	Type	Target	Start Time	End Time	Informal		
	firmware update 0321	Firmware Update		3121/2024, 03:00:00 PM	3/21/2024, 03:00:00 PM	Once	8	
1	remote mesha 0321	Writael Media	103.116.170, 10.1116.162	3121/2024, 04.00.00 PM	3/21/2024, 04:50.00 PM	Crice	0.	.8
1	power limit	Set Power Limit	10.1.116.170, 10.1.116.162	22:10	22:10	Day	0	8
1	Chassis identify 0821	Chassis Identify	10.1.116.170, 10.1.116.162	07.45	07.45	Week (Saturday)	a	8
						trems per page: 4	1-4 of 4	

- The Ongoing Schedule Tasks List table shows the task status in the last column as a progress bar. Only tasks involving firmware updates appear in the ongoing task table because they require some time to complete.
- The Completed Schedule Tasks List table includes the same details as the In Complete Task List table. The completed task table also shows the execution result of each task. Tasks can be re-run or deleted using the action buttons.

						Sele	ci Ali Deselect Ali Selecti	d Items 3	.0
	Task Name	Туря	Target	Start Tires	End Time	Interval	Result		
	115.109_PowerLimit_Test2	Set Power Limit	10.1116.109	3/20/2024, DS 00:00 PM	3/20/2024, 05:00:02 PM	Day	ID.1.115.10D: FALLED	93	6
2	chassis identify 0320	Chassis Mertify	10.1116.170, 10.1.116.182	5/20/2024, 05:00:00 PM	5/20/2024, 05:00.01 PM	Week (Wednesday)	10.1116.170: OK 10.1116.162: OK	0	. 0
2	light on 0308-2	Chassis Mertify	10.1110.162, 10.1.116.170	3/20/2024, 01:44:00 PM	3(20)2024, 01;44:21 PM	Day	10.1316.162: OK 10.1315.170: FALED	0	ð
	remote media 0120	Virtual Media	10.1.116.77, 10.1.116.63	3/15/2024, 11:05:00 AM	3/15/2024, 11:05:03 AM	Week (Friday)	10.1116.77: FALED 10.1115.63: FALED	0	-
	firmware update 0308	Firmware Opdate	10.1116.170, 10.1.115.162	5/8/2024, 11:22:00 AM	3/8/2024, 11:22:15 AM	0110	10.1116.170: Success 10.1115.162: Success	- 11	
	light on 0308	Chossis Identify	10.1.110.162, 10.1.110.170	3/8/2024, 09.24 00 AM	3/8/2024, 69:24:00 AM	Once	10.1116.1621 OK 10.1115.170: OK	0	n
	116.108.PowerUmiLTest1	Set Power Limit	10:1110:109	2/29/2024, 06:00:00 PM	2/29/2024, 66 00.02 PM	Ovce	10.1.116.109: OK	Run Teld	1.
	websiteOpdate.Test	Firmware Update	10.1118.61	2/28/2024, 04:45:00 PM	2/28/2024, 04 45:13 PM	Once	10.1.116.61: Success		

Note Tasks involving firmware updates cannot be run again once they are completed.

Appendix A. Logging in with the 2FA authentication

For web browser 2FA authentication, an authenticator app is required.

A.1. Installing the authenticator app

Example for Chrome

- 1. Download the Authenticator app from the Chrome web store.
- 2. Install the Authenticator app.
- 3. Enable the Authenticator app in the extension settings page.



4. Enable the authenticator app. The app will be pinned on the toolbar after enabling.



A.2. Enabling 2FA authentication for OneBSM users

Note For 2FA code to be accepted the date and time of the OneBSM should be synchronized with the time of the authenticator app.

- 1. From the Configuration tab, click Account Management.
- 2. From the Account Management page, click the User Account tab.
- 3. From the **User Account** page, click the **Edit** button next to the user account to be modified.
- 4. Enable 2FA authentication for the user.

Edit User Account		
Enable user account	(MIC)	
Username *	admin	
Modify User's Password		
Password		
Role *	ROLE_ADMIN	v
Enable 2FA authentication		
	Please verify 2FA code in 120 seconds and pres	ss the save button.
	Please Input 2fa Code Here	Verify

- 5. Scan the QR code with a smart phone and enter the 2FA code.
- 6. Click Save.

Appendix B. Server configuration sub-menus

The Device sub-menus displayed at the top of the page for a server vary according to server type.

	Info	Inventory	Firmware Update	Sensor Monitor	Event Log	Remote Control	Power Consumption	Account Management
BullSequana SA	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
BullSequana SH (monomodule)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
BullSequana EXR/EXD	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
BullSequana SH multimodule (Primary module)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
BullSequana SH multimodule (Secondary module)	\checkmark	\checkmark	N/A	\checkmark	\checkmark	N/A	N/A	N/A
BullSequana SH multimodule (Group)	N/A	N/A	\checkmark	N/A	N/A	\checkmark		N/A

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