

EVIDEN

BullSequana Servers

OneBSM Console Reference Guide

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Hardware

October 2024

**Eviden
30 bis rue du Nid de Pie
49000 Angers
FRANCE**

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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.

Setup Wizard

Password IP Range

Username *

Password *

- i** Password must be at least 8 characters long.
- i** Password must contain at least 1 lowercase letter.
- i** Password must contain at least 1 uppercase letter.
- i** Password must contain at least 1 number.
- i** Password must contain at least 1 special character.

Confirm New Password *

Enable 2FA authentication OFF

Next

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

Setup Wizard

Password **IP Range**

Description*

Start IP*

End IP*
i IP must be an IPv4 or IPv6 format.

Discovering Devices Using The Below Username And Password

username

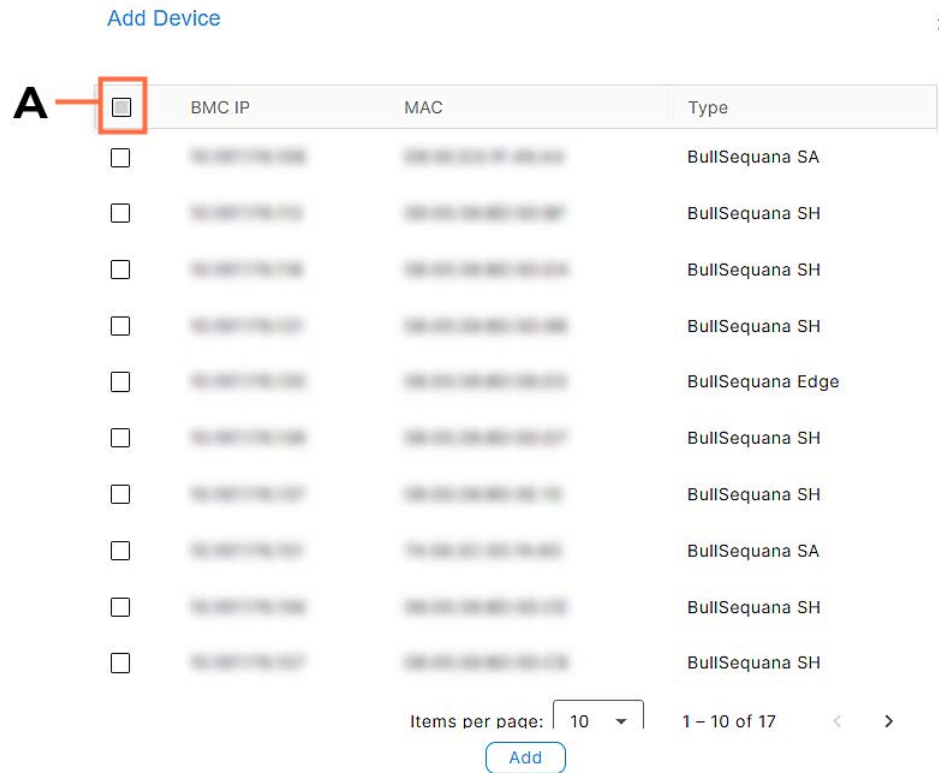
password

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 be entered individually for each device.

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



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.



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

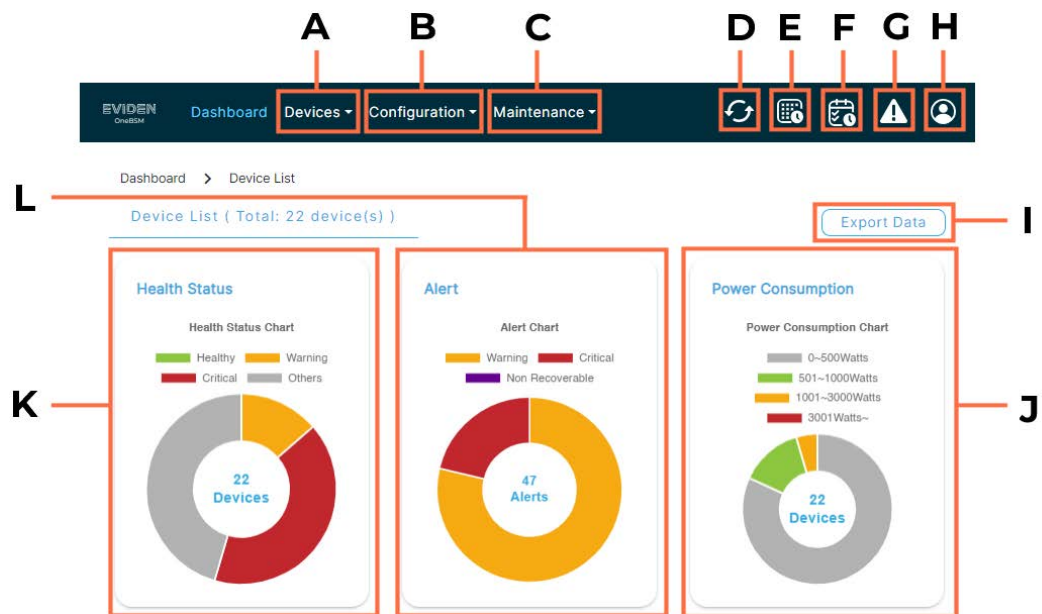
Tab	Item
Devices	Discovery
	Device List
	Groups
Configuration	Account Management
	Notification Settings
	Database
	System Settings
Maintenance	Audit Log
	System Log
	Alert Log
	Update System
	Export Config

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
A	Devices menu
B	Configuration menu for OneBSM
C	Maintenance menu for OneBSM
D	Refresh button
E	Time configuration button
F	Scheduled Tasks button
G	Alerts button
H	User button
I	Export Data button
J	Power Consumption wheel
K	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.

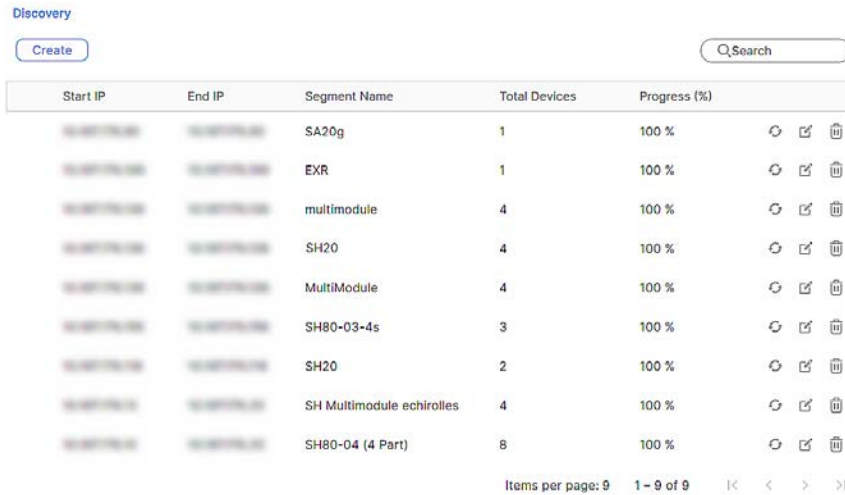
Note Each scan, as set by the scan interval, will also refresh other details periodically, for example BMC hostname, the network configuration and inventory information.

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

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



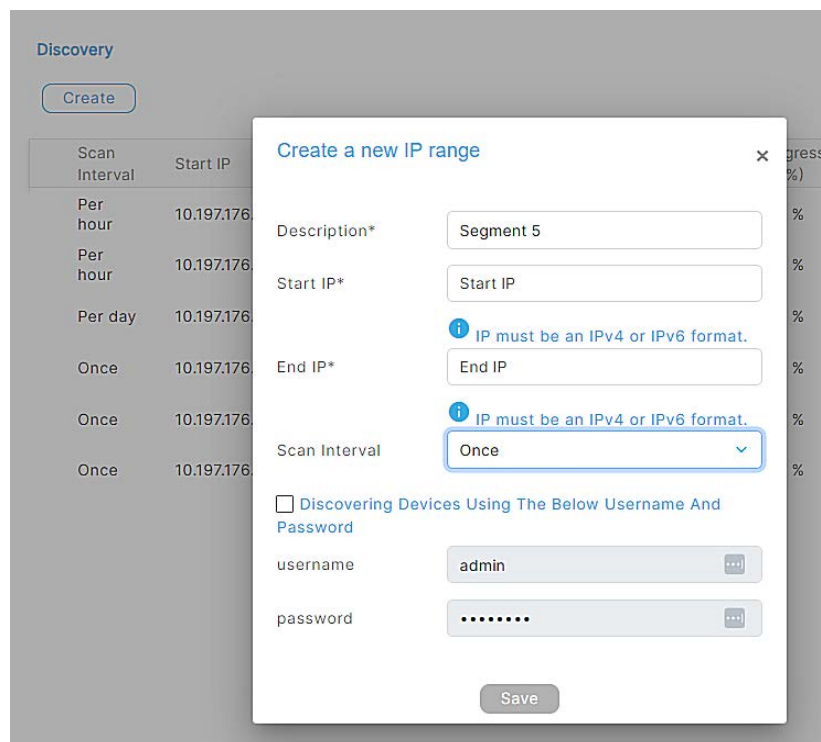
The screenshot shows the 'Discovery' page with a 'Create' button and a search bar. Below is a table with the following data:

Start IP	End IP	Segment Name	Total Devices	Progress (%)	
10.197.176.1	10.197.176.2	SA20g	1	100 %	Refresh Check Delete
10.197.176.3	10.197.176.4	EXR	1	100 %	Refresh Check Delete
10.197.176.5	10.197.176.6	multimodule	4	100 %	Refresh Check Delete
10.197.176.7	10.197.176.8	SH20	4	100 %	Refresh Check Delete
10.197.176.9	10.197.176.10	MultiModule	4	100 %	Refresh Check Delete
10.197.176.11	10.197.176.12	SH80-03-4s	3	100 %	Refresh Check Delete
10.197.176.13	10.197.176.14	SH20	2	100 %	Refresh Check Delete
10.197.176.15	10.197.176.16	SH Multimodule echirolles	4	100 %	Refresh Check Delete
10.197.176.17	10.197.176.18	SH80-04 (4 Part)	8	100 %	Refresh Check Delete

Items per page: 9 1 - 9 of 9

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.



The screenshot shows the 'Create a new IP range' dialog box with the following fields and options:

- Description*: Segment 5
- Start IP*: Start IP
- End IP*: End IP
- Scan Interval: Once
- Discovering Devices Using The Below Username And Password
- username: admin
- password:
- Save button

5. Click **Save**.

Add Device ;

A <input type="checkbox"/>	BMC IP	MAC	Type
<input type="checkbox"/>	192.168.1.1	AA-BB-CC-DD-EE-FF-00	BullSequana SA
<input type="checkbox"/>	192.168.1.2	AA-BB-CC-DD-EE-FF-01	BullSequana SH
<input type="checkbox"/>	192.168.1.3	AA-BB-CC-DD-EE-FF-02	BullSequana SH
<input type="checkbox"/>	192.168.1.4	AA-BB-CC-DD-EE-FF-03	BullSequana SH
<input type="checkbox"/>	192.168.1.5	AA-BB-CC-DD-EE-FF-04	BullSequana Edge
<input type="checkbox"/>	192.168.1.6	AA-BB-CC-DD-EE-FF-05	BullSequana SH
<input type="checkbox"/>	192.168.1.7	AA-BB-CC-DD-EE-FF-06	BullSequana SH
<input type="checkbox"/>	192.168.1.8	AA-BB-CC-DD-EE-FF-07	BullSequana SA
<input type="checkbox"/>	192.168.1.9	AA-BB-CC-DD-EE-FF-08	BullSequana SH
<input type="checkbox"/>	192.168.1.10	AA-BB-CC-DD-EE-FF-09	BullSequana SH

Items per page: 10 1 - 10 of 17 < >

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 x

Description*	<input type="text" value="Segment 1"/>
Start IP*	<input type="text" value="192.168.1.1"/>
End IP*	<input type="text" value="192.168.1.10"/>
Scan Interval	<input type="text" value="Per hour"/>
username	<input type="text" value="user"/>
password	<input type="password" value="••••••••"/>

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 x

Description*

IP*

i IP must be an IPv4 or IPv6 format.

Discovering Devices Using The Below Username And Password

username

password

Add

3. Enter the IP address and 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**.

Import Device x

Description*

File*

i The supported file extension is .txt. The content format is "BMC IP, Username, Password".

Import

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.**

<input type="checkbox"/>	Node Monitor	Power	Status	Connection	Description	Hostname	BMC IP	Power Consumption (W)	Model Name	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Initial List	mesca5mod-43.bmc.lab.frec.bull.fr	10.197.176.17	0	BullSequana SH20	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Initial List	mesca5mod-41.bmc.lab.frec.bull.fr	10.197.176.13	373.75	BullSequana SH20	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			SH Monomodule 1	mesca5mod-04.bmc.lab.frec.bull.fr	10.197.176.112	834.50	BullSequana SH20	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			SH 2	mesca5mod-03.bmc.lab.frec.bull.fr	10.197.176.118	511.25	BullSequana SH20	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A		Initial List	bsexr02-bmc	10.197.176.199	N/A	BullSequana EXR	
<input type="checkbox"/>	<input checked="" type="checkbox"/>				SA11	Unknown	10.197.177.137	N/A	Unknown	

Items per page: 6 1 - 6 of 6

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.

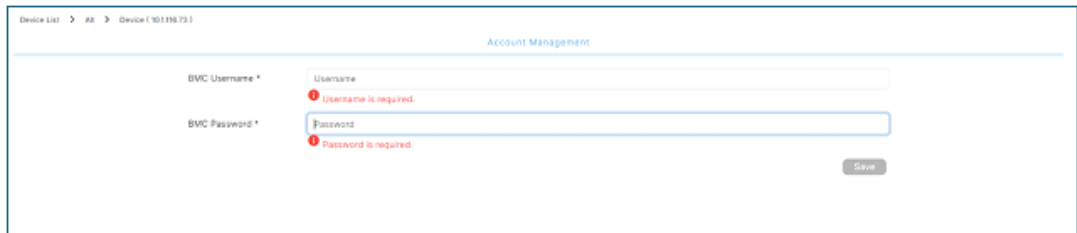
Double click on a server row to view more details and to perform management and monitoring operations.

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

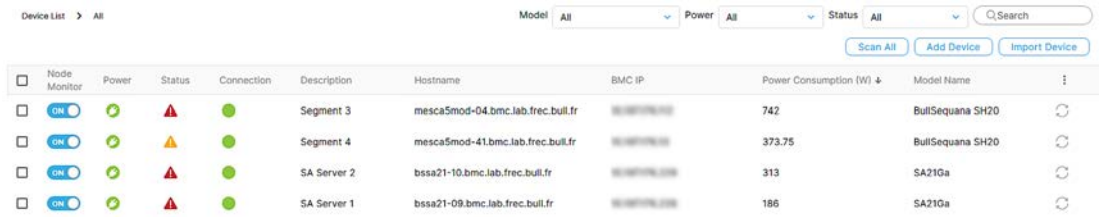
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. If a device with a Wrong Password status is selected, the system will redirect to the **Settings**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



The screenshot shows a web interface for 'Account Management' on a device page. The breadcrumb trail is 'Device List > All > Device (10119072)'. The page title is 'Account Management'. There are two main sections: 'BMC Username *' and 'BMC Password *'. The 'BMC Username *' section has a text input field for 'Username' with a red error message 'Username is required.' below it. The 'BMC Password *' section has a text input field for 'Password' with a red error message 'Password is required.' below it. A 'Save' button is located at the bottom right of the form.

2.4. Filtering devices

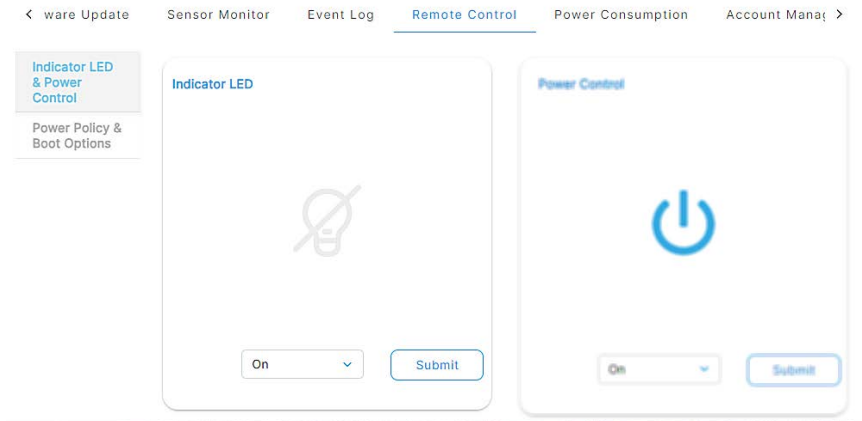
From the **Dashboard**, click the health status, alert or power consumption range. A list of devices with the selected status, alert or power consumption range opens.



<input type="checkbox"/>	Node Monitor	Power	Status	Connection	Description	Hostname	BMC IP	Power Consumption (W) ↓	Model Name	⋮
<input type="checkbox"/>					Segment 3	mesca5mod-04.bmc.lab.frec.bull.fr	10.10.10.10	742	BullSequana SH20	
<input type="checkbox"/>					Segment 4	mesca5mod-41.bmc.lab.frec.bull.fr	10.10.10.10	373.75	BullSequana SH20	
<input type="checkbox"/>					SA Server 2	bssa21-10.bmc.lab.frec.bull.fr	10.10.10.10	313	SA21Ga	
<input type="checkbox"/>					SA Server 1	bssa21-09.bmc.lab.frec.bull.fr	10.10.10.10	186	SA21Ga	

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.



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.

Node Monitor	Power	Status	Connection	Description	Hostname	BMC IP	Power Consumption (W)	Model Name
<input checked="" type="checkbox"/>	ON	OK	OK	Segment 3	mesca5mod-04.bmc.lab.frec.bull.fr	10.10.10.10	739.50	BullSequana SH20
<input checked="" type="checkbox"/>	ON	OK	OK	Segment 4	mesca5mod-41.bmc.lab.frec.bull.fr	10.10.10.11	372.50	BullSequana SH20
<input type="checkbox"/>	ON	OK	OK	SA Server 2	bssa21-10.bmc.lab.frec.bull.fr	10.10.10.12	313	SA210a
<input type="checkbox"/>	ON	OK	OK	SA Server 1	bssa21-09.bmc.lab.frec.bull.fr	10.10.10.13	187	SA210a
<input type="checkbox"/>	ON	OK	OK	1st Import	bscx02-bmc	10.10.10.14	12	BullSequana EXR
<input type="checkbox"/>	ON	OK	OK	1st Import	mesca5mod-37.bmc.lab.frec.bull.fr	10.10.10.15	0	BullSequana SH80
<input type="checkbox"/>	ON	OK	OK	Segment 2	mesca5mod-40.bmc.lab.frec.bull.fr	10.10.10.16	0	BullSequana SH80

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

Group

Group Name*

Group Description

Group Platform*

Group Member*

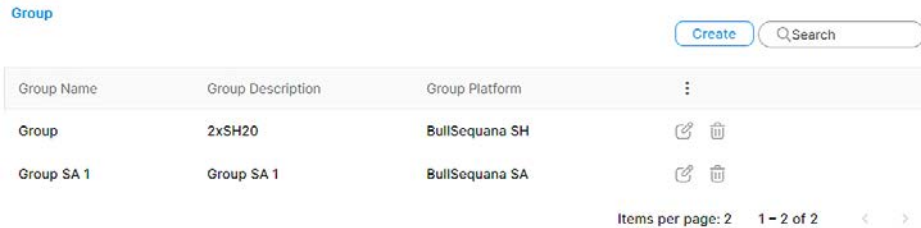
<input type="checkbox"/>	BMC IP	Hostname	MAC	Platform
<input checked="" type="checkbox"/>	10.10.10.11	mesca5mod-41.bmc.lab.frec.bull.fr	08:00:38:bd:5d:dd	BullSequana SH
<input type="checkbox"/>	10.10.10.16	mesca5mod-40.bmc.lab.frec.bull.fr	08:00:38:bd:5d:d1	BullSequana SH
<input type="checkbox"/>	10.10.10.15	mesca5mod-37.bmc.lab.frec.bull.fr	08:00:38:bd:5d:ce	BullSequana SH
<input checked="" type="checkbox"/>	10.10.10.10	mesca5mod-04.bmc.lab.frec.bull.fr	08:00:38:bd:5d:bf	BullSequana SH

Items per 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

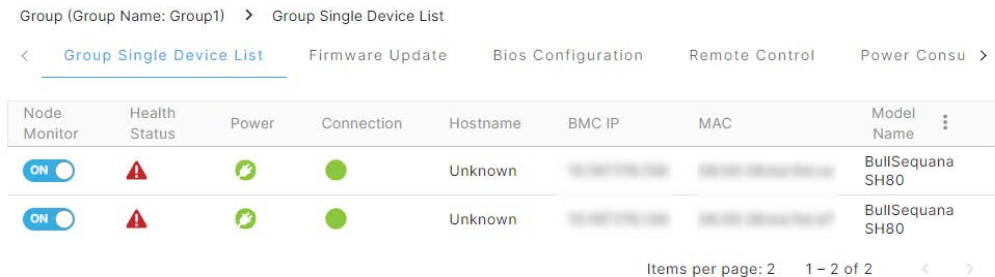
1. From the **Devices** tab, click **Group**. All existing groups are displayed, including details of group members.



The screenshot shows a web interface for managing device groups. At the top, there is a 'Group' header, a 'Create' button, and a search bar. Below this is a table with columns: Group Name, Group Description, Group Platform, and an action menu (represented by a vertical ellipsis). The table contains two rows: 'Group' with description '2xSH20' and platform 'BullSequana SH', and 'Group SA 1' with description 'Group SA 1' and platform 'BullSequana SA'. Each row has edit and delete icons. At the bottom right, it says 'Items per page: 2' and '1 - 2 of 2' with navigation arrows.

Group Name	Group Description	Group Platform	
Group	2xSH20	BullSequana SH	
Group SA 1	Group SA 1	BullSequana SA	

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



The screenshot shows the 'Group Single Device List' sub-menu. At the top, there is a breadcrumb 'Group (Group Name: Group1) > Group Single Device List'. Below the breadcrumb are several tabs: 'Group Single Device List' (selected), 'Firmware Update', 'Bios Configuration', 'Remote Control', and 'Power Consu'. Below the tabs is a table with columns: Node Monitor, Health Status, Power, Connection, Hostname, BMC IP, MAC, and Model Name. The table contains two rows of device information. Each row has a 'Node Monitor' toggle (set to 'ON'), a 'Health Status' icon (red triangle with exclamation mark), a 'Power' icon (green leaf), and a 'Connection' icon (green circle). The 'Hostname' is 'Unknown', 'BMC IP' and 'MAC' are redacted. The 'Model Name' is 'BullSequana SH80'. At the bottom right, it says 'Items per page: 2' and '1 - 2 of 2' with navigation arrows.

Node Monitor	Health Status	Power	Connection	Hostname	BMC IP	MAC	Model Name
ON				Unknown	[REDACTED]	[REDACTED]	BullSequana SH80
ON				Unknown	[REDACTED]	[REDACTED]	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.

Edit Group

Group Name*

Group Description

Group Platform*

Group Member*

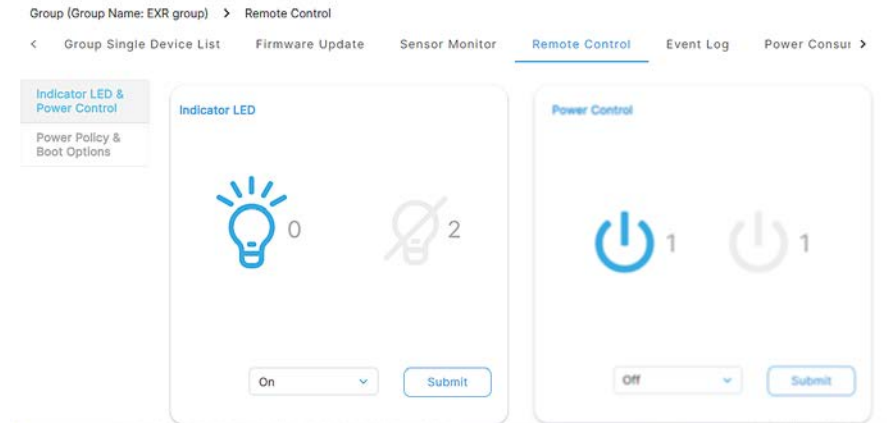
Group	BMC IP	Hostname	MAC	Platform	
<input checked="" type="checkbox"/>	08:00:38:bd:5d:ce	Unknown	08:00:38:bd:5d:ce	Sequana SH	
<input checked="" type="checkbox"/>	08:00:38:bd:5d:d7	Unknown	08:00:38:bd:5d:d7	Sequana SH	
<input type="checkbox"/>	08:00:38:bd:5d:d4	mesca5mod-03.bmc.lab.frec.bull.fr	08:00:38:bd:5d:d4	Sequana SH	
<input type="checkbox"/>	08:00:38:bd:5d:dd	mesca5mod-41.bmc.lab.frec.bull.fr	08:00:38:bd:5d:dd	Sequana SH	
<input type="checkbox"/>	08:00:38:bd:5f:bd	mesca5mod-42.bmc.lab.frec.bull.fr	08:00:38:bd:5f:bd	Sequana SH	
<input type="checkbox"/>	08:00:38:bd:5e:39	mesca5mod-43.bmc.lab.frec.bull.fr	08:00:38:bd:5e:39	Sequana SH	
<input type="checkbox"/>	08:00:38:bd:5f:ab	mesca5mod-44.bmc.lab.frec.bull.fr	08:00:38:bd:5f:ab	Sequana SH	

Items per page: 7 1 – 7 of 7 < >

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.

< [Information](#) [Inventory](#) [Firmware Update](#) [Bios Configuration](#)

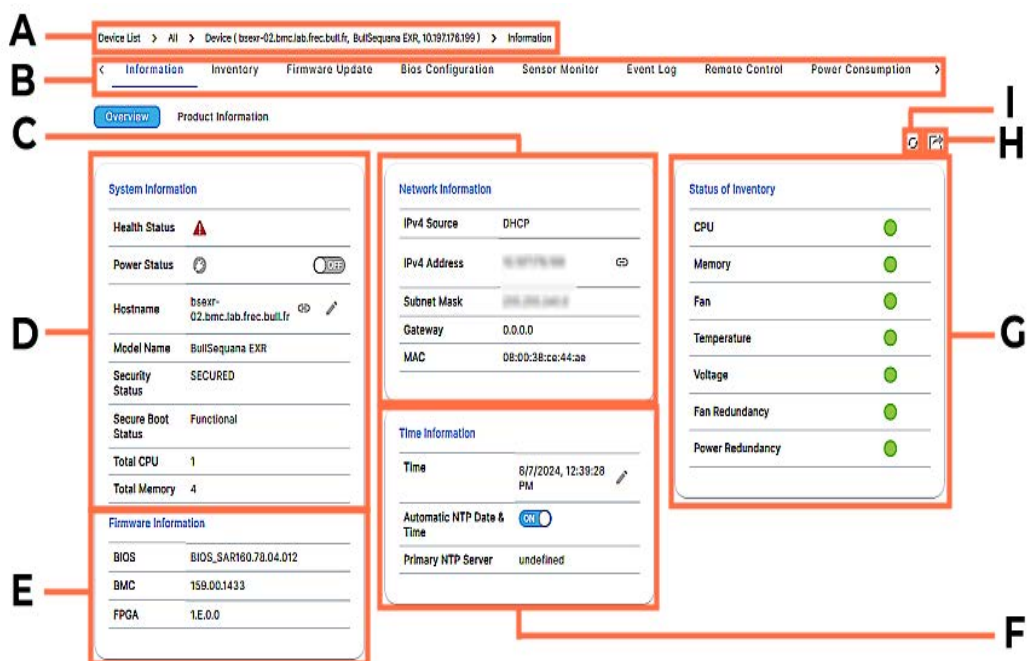
Overview [Product Information](#)

Board Information	
Board Mfg	[REDACTED]
Board Mfg Date	2024-06-07T13:31:00.000Z
Board Part Number	123456789AB
Board Product	MZ93-FS0-000
Board Serial	[REDACTED]
Chassis Part Number	R183-Z92-AAV1-000
Chassis Serial	GOG6N4721A0003
Chassis Type	Rack Mount Chassis
Product Asset Tag	XAN-GE8A-00043
Product Manufacturer	BULL
Product Name	SA21a
Product Part Number	BULL
Product Serial	GOG6N4721A0003
Product Version	SA1-0002

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
A	OneBSM path to device overview.
B	Device sub-menus including : Inventory details, Firmware Update, Sensor Monitor, Event Log, Remote Control, Power Consumption.
C	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,

Mark	Description
F	Time information including NTP settings.
G	Status of Inventory indicates the health status of the components included in the inventory.
H	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 configuration 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.

The screenshot displays the 'Information' page for a device, specifically the 'Overview' tab. The breadcrumb trail at the top reads: 'Device List > All > Device (bsexr-02.bmc.lab.frec.bull.fr, BullSequana EXR, 10.197.176.199) > Information'. The navigation menu includes: 'Information', 'Inventory', 'Firmware Update', 'Bios Configuration', 'Sensor Monitor', 'Event Log', 'Remote Control', and 'Power Consumption'. The 'Overview' tab is active, showing 'Product Information'.

The 'System Information' section includes:

- Health Status: ▲
- Power Status: OFF (highlighted with a red box)
- Hostname: bsexr-02.bmc
- Model Name: BullSequana EXR
- Security Status: SECURED
- Secure Boot Status: Functional
- Total CPU: 1
- Total Memory: 4
- Submit button (highlighted with a red box)

The 'Network Information' section includes:

- IPv4 Source: DHCP
- IPv4 Address: 10.197.176.199
- Subnet Mask: 255.255.255.0
- Gateway: 0.0.0.0
- MAC: 08:00:27:16:19:99

The 'Time Information' section includes:

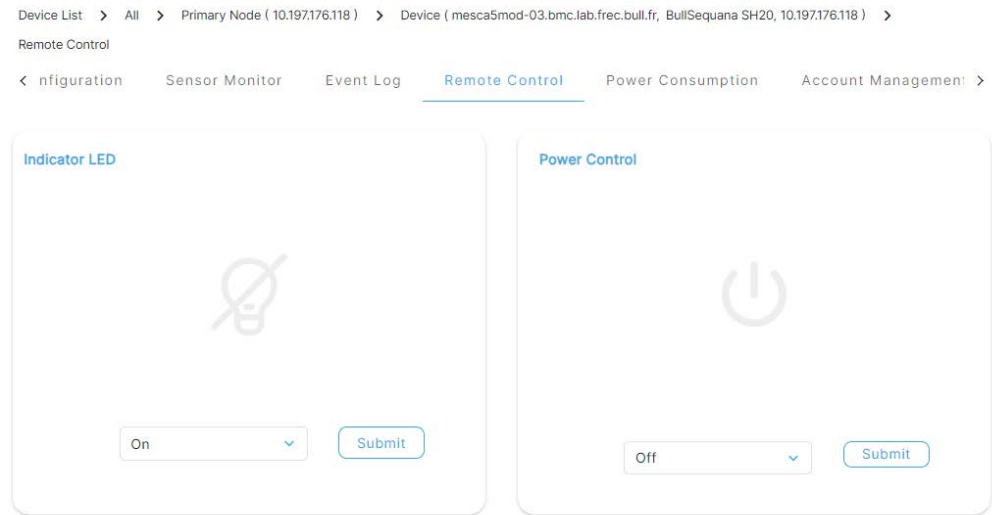
- Time: 8/8/2024, 09:07:20 AM
- Automatic NTP Date & Time: ON
- Primary NTP Server: undefined

The 'Status of Inventory' section shows the following components with green status indicators:

- CPU
- Memory
- Fan
- Temperature
- Voltage
- Fan Redundancy
- Power Redundancy

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.



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.

The screenshot displays the BMC configuration interface. On the left, a sidebar menu includes 'Indicator LED & Power Control' and 'Power Policy & Boot Options'. The main content area is divided into two panels. The left panel, titled 'Power Restore Policy', contains an information icon, a description: '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.', and three radio button options: 'Previous Power State', 'Always On', and 'Always Off' (which is selected). A 'Submit' button is at the bottom right of this panel. The right panel, titled 'Boot Option', features three dropdown menus: 'Boot Enabled' (set to 'Disable'), 'Boot Mode' (set to 'UEFI'), and 'Boot Target' (set to 'None'). A 'Submit' button is at the bottom right of this panel.

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.

The screenshot shows the OneBSM console interface for a device named 'bsexr-02.bmc'. The 'Information' page is open, and the 'Overview' tab is selected. The 'System Information' section is highlighted, and the 'Hostname' field is in edit mode, showing 'bsexr-02.bmc'. The 'Submit' button is also highlighted. The 'Network Information' section shows 'IPv4 Source' as DHCP, 'IPv4 Address' as 192.168.1.100, 'Subnet Mask' as 255.255.255.0, 'Gateway' as 192.168.1.1, and 'MAC' as 08:00:27:00:00:00. The 'Time Information' section shows 'Time' as 8/8/2024, 09:07:20 AM, 'Automatic NTP Date & Time' as ON, and 'Primary NTP Server' as undefined. The 'Status of Inventory' section shows 'CPU', 'Memory', 'Fan', 'Temperature', 'Voltage', 'Fan Redundancy', and 'Power Redundancy' all with green status indicators.

System Information	
Health Status	▲
Power Status	⏻ <input type="checkbox"/> OFF
Hostname	bsexr-02.bmc <input type="text"/>
Model Name	BullSequana EXR
Security Status	SECURED
Secure Boot Status	Functional
Total CPU	1
Total Memory	4
<input type="button" value="Submit"/>	
Firmware Information	
BIOS	BIOS_SAR160.78.04.012
BMC	159.00.1433
FPGA	1.E.0.0

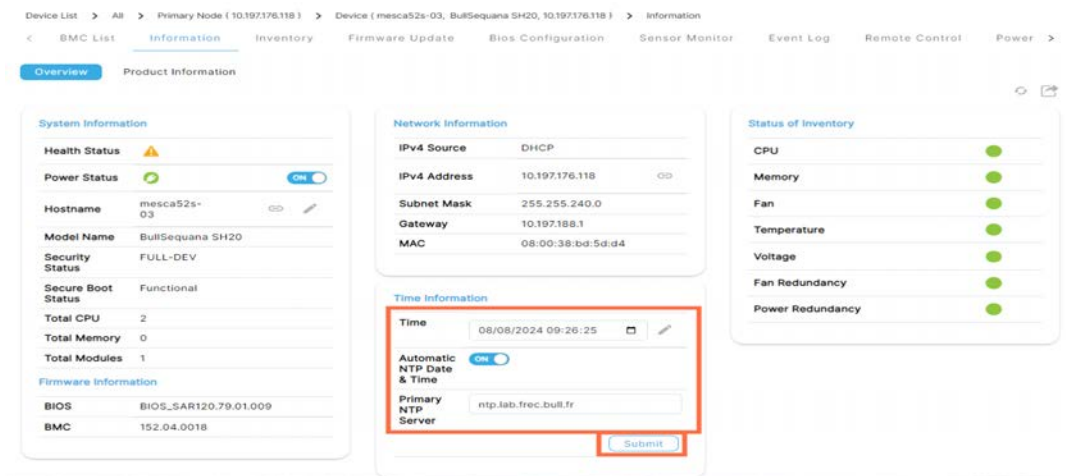
Network Information	
IPv4 Source	DHCP
IPv4 Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
MAC	08:00:27:00:00:00

Time Information	
Time	8/8/2024, 09:07:20 AM
Automatic NTP Date & Time	<input checked="" type="checkbox"/> ON
Primary NTP Server	undefined

Status of Inventory	
CPU	●
Memory	●
Fan	●
Temperature	●
Voltage	●
Fan Redundancy	●
Power Redundancy	●

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.



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.

The screenshot shows the 'Overview' tab of the OneBSM console. At the top, there are two tabs: 'Overview' (selected) and 'Product Information'. The main content area is divided into three columns. The left column contains 'System Information' and 'Firmware Information'. The middle column contains 'Network Information' (highlighted with a red box) and 'Time Information'. The right column contains 'Status of Inventory'. The 'Network Information' section shows the following details:

Field	Value
IPv4 Source	DHCP
IPv4 Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
MAC	08:00:27:00:12:34

The 'Time Information' section shows the current time as 7/13/2024, 19:28:01 and an 'Automatic NTP Date & Time' toggle switch.

The 'Status of Inventory' section shows the following status for various components:

Component	Status
CPU	OK (Green)
Memory	OK (Green)
Fan	OK (Green)
Temperature	OK (Green)
Voltage	Warning (Red Triangle)
Fan Redundancy	OK (Green)
Power Redundancy	Warning (Red Triangle)

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:

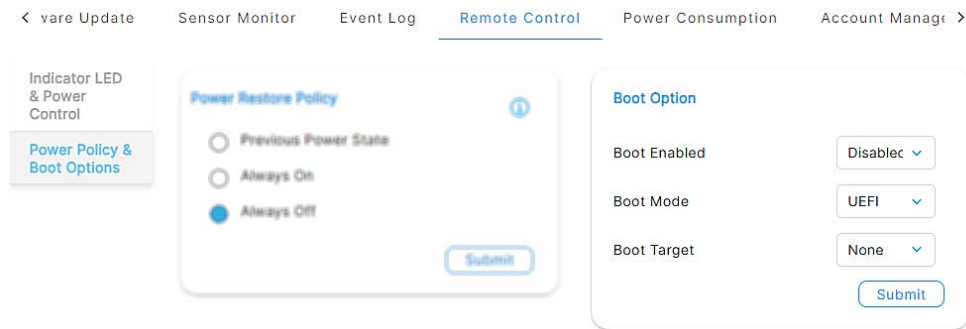
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. Select the device and click the **Firmware Update** tab. The firmware update window opens
5. Choose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

The screenshot shows the 'Firmware Update' page in a web management console. The breadcrumb trail is: Device List > All > Primary Node (10.197.176.118) > Device (mesca5mod-03.bmc.lab.frec.bull.fr, BullSequana SH20, 10.197.176.118) > Firmware Update. The navigation menu includes: BMC List, Information, Inventory, Firmware Update (active), Bios Configuration, Sensor Monitor, Event Log, and Remote C. The 'Firmware Version' section lists: BIOS (v0.00000000000000000000000000000000), BMC (v0.00000000000000000000000000000000), CEB_IO_FPGA (v0.00000000000000000000000000000000), CEB_MAIN_FPGA (v0.00000000000000000000000000000000), CEB_PFR_CPLD (v0.00000000000000000000000000000000), and CEB_P_CPLD (v0.00000000000000000000000000000000). The 'Update Details' section has 'Upload Type' set to 'Local'. Below it is a file selection area with 'No file chosen' and a cloud icon. There is a checkbox for 'Force Upgrade' with a warning message: 'To allow flashing the same or older firmware version, please enable this feature. Otherwise, it may be rejected.' A 'Start Firmware Update' button is at the bottom.

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.



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

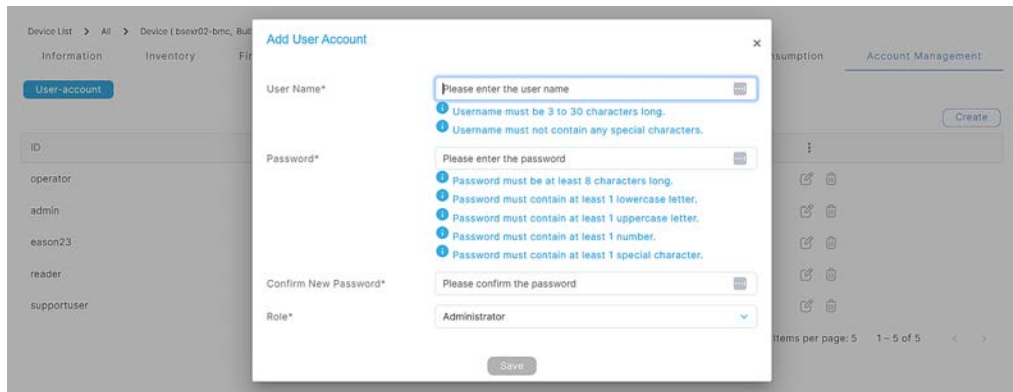
The screenshot shows a web-based management interface. On the left is a sidebar with menu items: 'Indicator LED & Power Control', 'Virtual Media' (highlighted), and 'Power Policy & Boot Options'. The main content area is titled 'Virtual Media' and includes a status indicator 'The process may take a few minutes.' and an 'Unmount' toggle switch. Below this are four input fields: 'Share Type of Remote Media' with radio buttons for NFS (selected), CIFS, and HTTP; 'Server Address for CD/DVD Images' with a text box containing 'None'; 'Path in Server' with a text box containing 'e.g. /opt/bmc/nfs'; and 'Image Name' with a text box containing '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**.



The screenshot shows the 'Add User Account' dialog box in the BMC console. The dialog box is open over the 'Account Management' page. It contains the following fields and options:

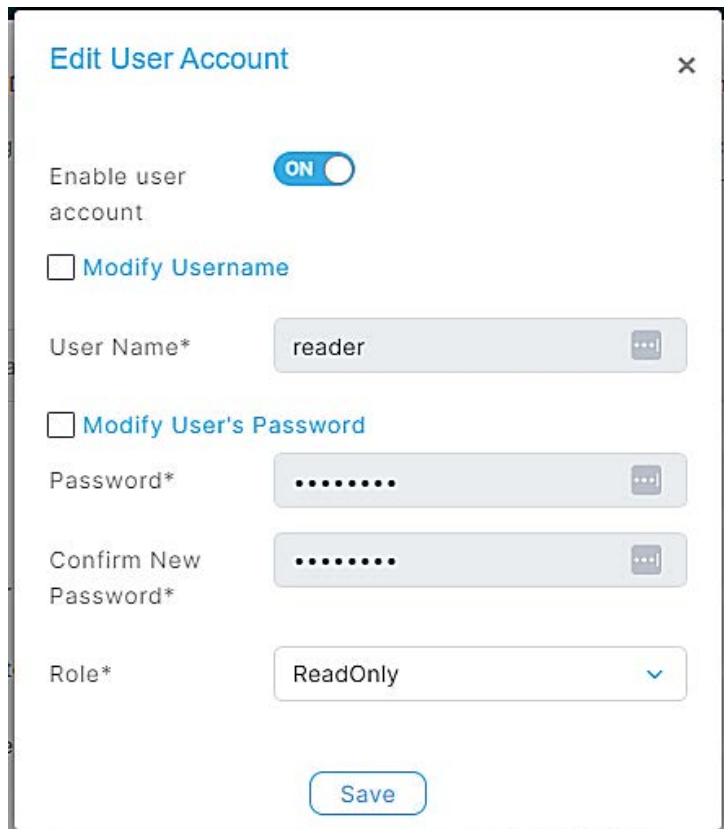
- User Name***: A text input field with a placeholder 'Please enter the user name'. Below it are two error messages: 'Username must be 3 to 30 characters long.' and 'Username must not contain any special characters.'
- Password***: A text input field with a placeholder 'Please enter the password'. Below it are four error messages: 'Password must be at least 8 characters long.', 'Password must contain at least 1 lowercase letter.', 'Password must contain at least 1 uppercase letter.', and 'Password must contain at least 1 number.'
- Confirm New Password***: A text input field with a placeholder 'Please confirm the password'.
- Role***: A dropdown menu currently set to 'Administrator'.

At the bottom of the dialog box is a 'Save' button. In the background, the 'Account Management' page is visible, showing a list of users: operator, admin, eason23, reader, supportuser. There is also a 'Create' button on the right side of the background page.

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.



The screenshot shows a modal dialog titled "Edit User Account". At the top left is the title "Edit User Account" and a close button (X) at the top right. Below the title, there is a section for "Enable user account" with a blue toggle switch currently turned "ON". Underneath, there is a checkbox labeled "Modify Username". Below that is the "User Name*" field, which is a text input containing the value "reader". Another checkbox labeled "Modify User's Password" is present. Below it are two password fields: "Password*" and "Confirm New Password*", both of which are masked with dots. At the bottom of the form is a "Role*" dropdown menu currently set to "ReadOnly". A "Save" button is located at the bottom center of the dialog.

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.

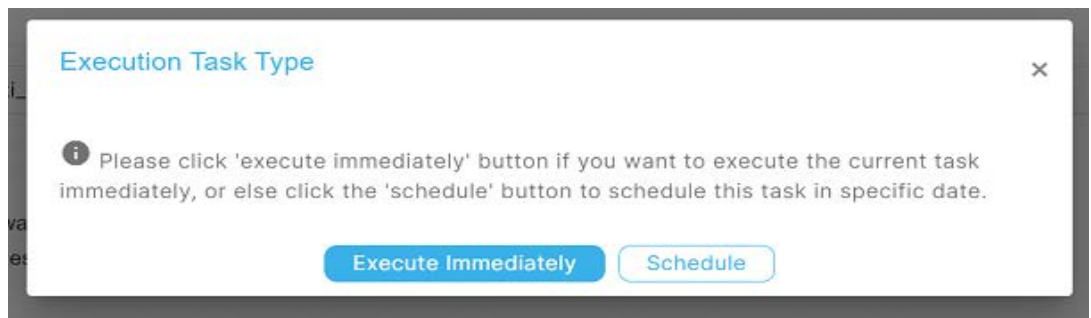
Notes For group firmware updates, only the local path is supported for the **Upload Type**.

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.

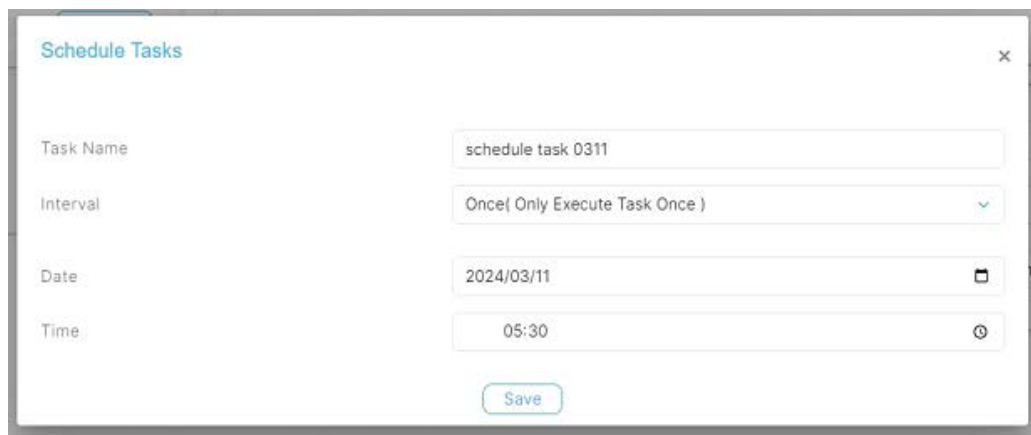
The screenshot shows the 'Firmware Update' interface for a device group. At the top, there is a breadcrumb 'Group (Group Name: Group1) > Firmware Update' and a navigation menu with tabs: 'Group Single Device List', 'Firmware Update' (active), 'Bios Configuration', 'Remote Control', 'Power Consumption', and 'Settings'. Below the navigation, there are two main sections. The first section, titled 'Firmware Version', contains a table with the following items: BIOS, BMC, CEB_IO_FPGA, CEB_MAIN_FPGA, CEB_PFR_CPLD, CEB_P_CPLD, ETH_SWITCH_MSM, and MSM_FPGA. The second section, titled 'Update Details', includes an 'Upload Type' dropdown menu set to 'Local', a 'Choose A File To Upload' field with the text 'No file chosen' and a file selection icon, a 'Force Upgrade' checkbox which is unchecked, and a warning message: 'Warning: Please note that after entering the update mode, the widgets, other web pages and services will not work. All the open widgets will be automatically closed. If the upgradation is cancelled in the middle of the wizard, the device will be reset only for BMC BOOT, and APP components of Firmware.' At the bottom of the 'Update Details' section is a 'Start Firmware Update' button.

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.

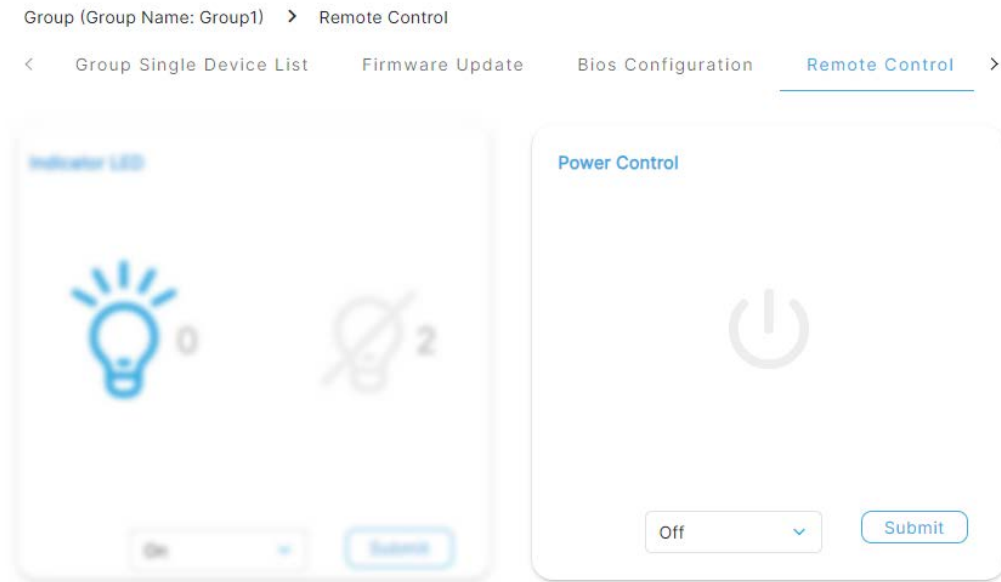


8. Enter the **Date** and **Time** if scheduled for later.

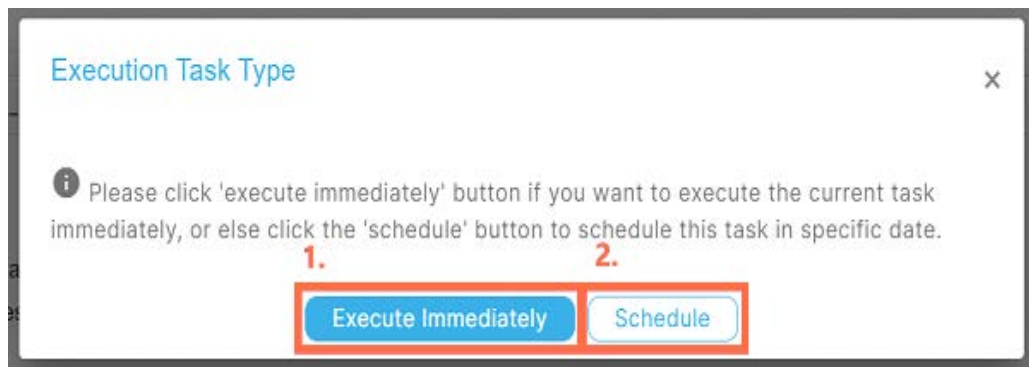


5.2. Powering on / off a device group

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.



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

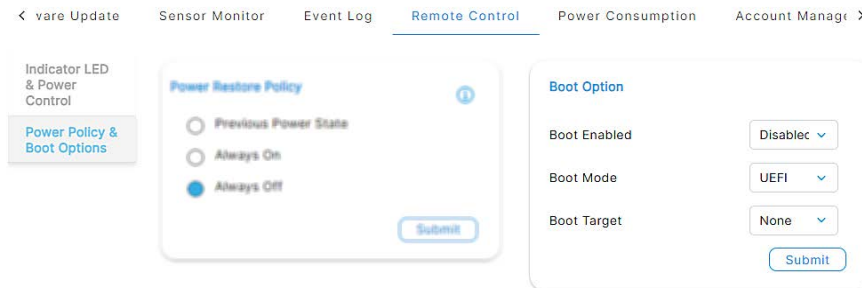
1. From the **Devices** page, click **Groups**.
2. In the **Group** window, click on the group required.
3. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.

The screenshot shows a web interface for configuring power and boot settings. On the left, a sidebar menu includes 'Indicator LED & Power Control' and 'Power Policy & Boot Options'. The main content area is divided into two panels. The left panel, titled 'Power Restore Policy', contains an information icon, a description: '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.', and three radio button options: 'Previous Power State', 'Always On', and 'Always Off' (which is selected). A 'Submit' button is at the bottom right of this panel. The right panel, titled 'Boot Option', contains three dropdown menus: 'Boot Enabled' (set to 'Disable'), 'Boot Mode' (set to 'UEFI'), and 'Boot Target' (set to 'None'). A 'Submit' button is at the bottom right of this panel.

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.



The screenshot shows the 'Remote Control' tab in a management interface. On the left, there is a sidebar with 'Indicator LED & Power Control' and 'Power Policy & Boot Options'. The main area is divided into two panels. The left panel, titled 'Power Restore Policy', has three radio button options: 'Previous Power State', 'Always On', and 'Always Off' (which is selected). A 'Submit' button is at the bottom right of this panel. The right panel, titled 'Boot Option', has three dropdown menus: 'Boot Enabled' (set to 'Disable'), 'Boot Mode' (set to 'UEFI'), and 'Boot Target' (set to 'None'). A 'Submit' button is at the bottom right of this panel.

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

Indicator LED & Power Control

Virtual Media

Power Policy & Boot Options

Virtual Media

The process may take a few minutes.

Unmount

Share Type of Remote Media NFS CIFS HTTP

Server Address for CD/DVD Images

Path in Server

Image Name

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.

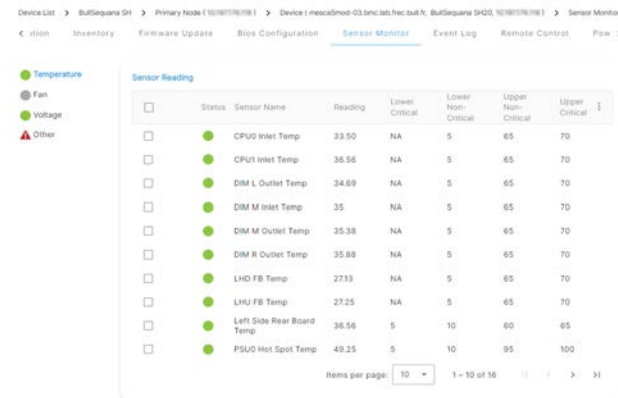
Note If the image is successfully mounted, it will start and run on the target IP.

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**.



The screenshot shows the 'Sensor Monitor' page with a table of sensor readings. The table has columns for Status, Sensor Name, Reading, Lower Critical, Lower Non-Critical, Upper Non-Critical, and Upper Critical. The sensor types are filtered to 'Temperature'.

Status	Sensor Name	Reading	Lower Critical	Lower Non-Critical	Upper Non-Critical	Upper Critical
<input type="checkbox"/>	CPU0 Inlet Temp	33.50	NA	5	65	70
<input type="checkbox"/>	CPU1 Inlet Temp	36.56	NA	5	65	70
<input type="checkbox"/>	DIM L Outlet Temp	34.69	NA	5	65	70
<input type="checkbox"/>	DIM M Inlet Temp	35	NA	5	65	70
<input type="checkbox"/>	DIM M Outlet Temp	35.38	NA	5	65	70
<input type="checkbox"/>	DIM R Outlet Temp	35.88	NA	5	65	70
<input type="checkbox"/>	LHD FB Temp	27.13	NA	5	65	70
<input type="checkbox"/>	LHU FB Temp	27.25	NA	5	65	70
<input type="checkbox"/>	Left Side Rear Board Temp	36.56	5	10	60	65
<input type="checkbox"/>	PSUD Hot Spot Temp	49.25	5	10	95	100

6. Select an individual sensor.

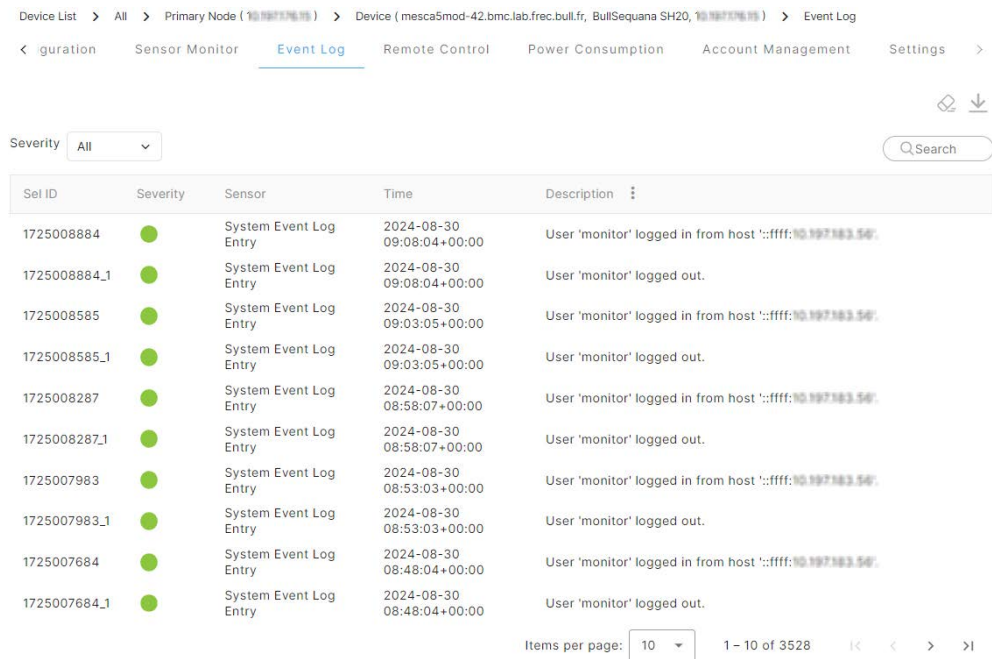
Scroll down the page to see the Sensor Reading History. The time interval (A) and period (B) can be changed, as required.



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.



The screenshot shows the Event Log interface with a breadcrumb trail: Device List > All > Primary Node (192.168.1.54) > Device (mesca5mod-42.bmc.lab.frec.bull.fr, BullSequana SH20, 192.168.1.54) > Event Log. The navigation menu includes: Duration, Sensor Monitor, Event Log (active), Remote Control, Power Consumption, Account Management, and Settings. A Severity filter is set to 'All'. A search bar is present. The table below lists 14 event entries, all with a 'Healthy' severity level (green dot). The events alternate between 'logged in' and 'logged out' for the user 'monitor'.

Sel ID	Severity	Sensor	Time	Description
1725008884	Healthy	System Event Log Entry	2024-08-30 09:08:04+00:00	User 'monitor' logged in from host '::ffff:10.197.163.54'
1725008884_1	Healthy	System Event Log Entry	2024-08-30 09:08:04+00:00	User 'monitor' logged out.
1725008585	Healthy	System Event Log Entry	2024-08-30 09:03:05+00:00	User 'monitor' logged in from host '::ffff:10.197.163.54'
1725008585_1	Healthy	System Event Log Entry	2024-08-30 09:03:05+00:00	User 'monitor' logged out.
1725008287	Healthy	System Event Log Entry	2024-08-30 08:58:07+00:00	User 'monitor' logged in from host '::ffff:10.197.163.54'
1725008287_1	Healthy	System Event Log Entry	2024-08-30 08:58:07+00:00	User 'monitor' logged out.
1725007983	Healthy	System Event Log Entry	2024-08-30 08:53:03+00:00	User 'monitor' logged in from host '::ffff:10.197.163.54'
1725007983_1	Healthy	System Event Log Entry	2024-08-30 08:53:03+00:00	User 'monitor' logged out.
1725007684	Healthy	System Event Log Entry	2024-08-30 08:48:04+00:00	User 'monitor' logged in from host '::ffff:10.197.163.54'
1725007684_1	Healthy	System Event Log Entry	2024-08-30 08:48:04+00:00	User 'monitor' logged out.

Items per page: 10 1 - 10 of 3528

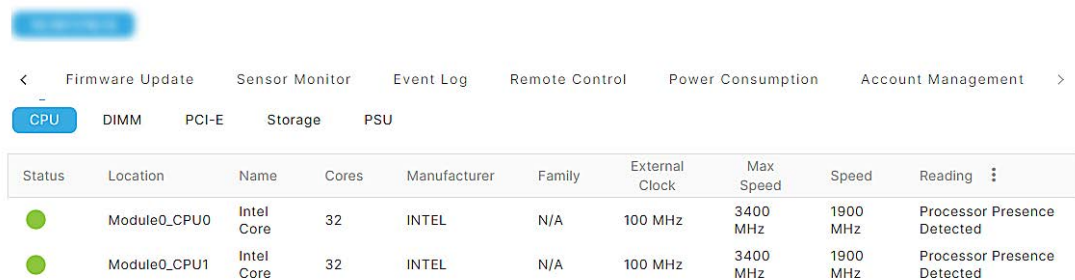
5. Filter the data by **Event Direction**, **Severity** level and **Sensor Type**, as required.
6. Use the options to clear all event log data or to download all event log data, as required

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.



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 [8.7.3. 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.



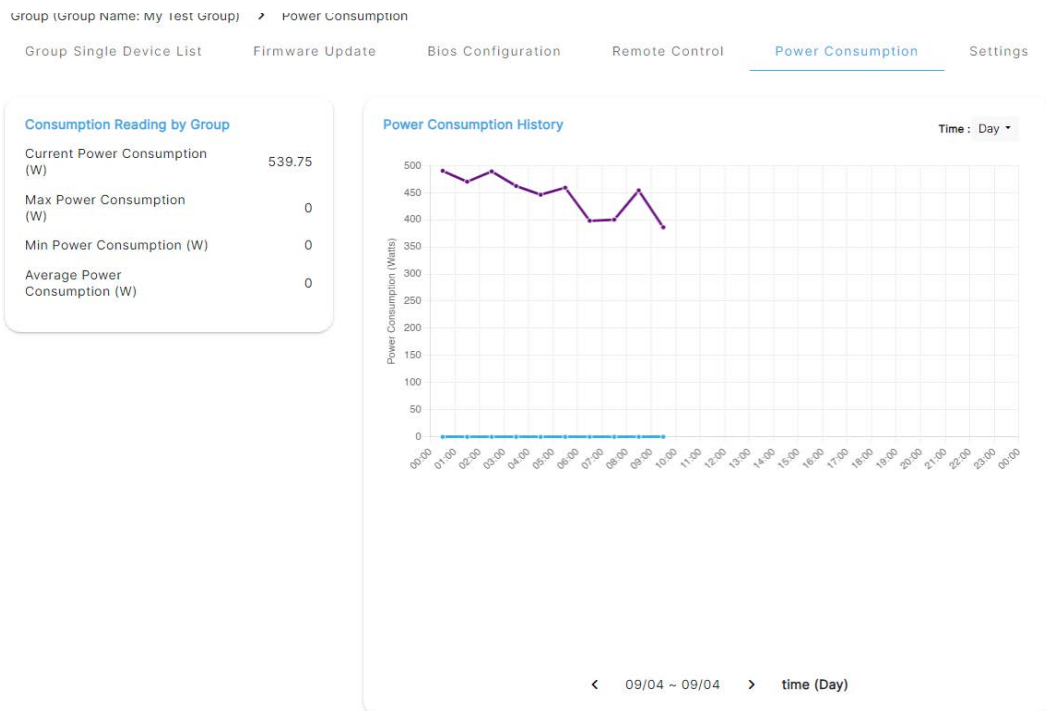
Chapter 7. Monitoring groups

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.

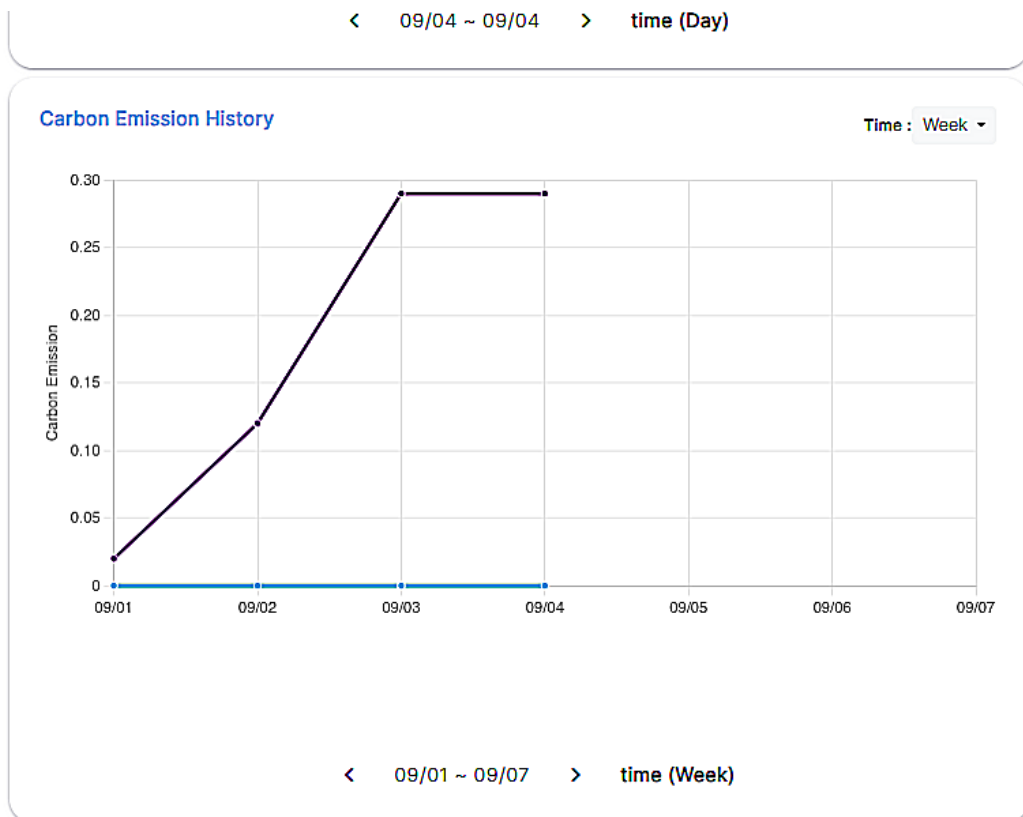


7.2. Viewing carbon emissions for a group

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 [8.7.3. 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

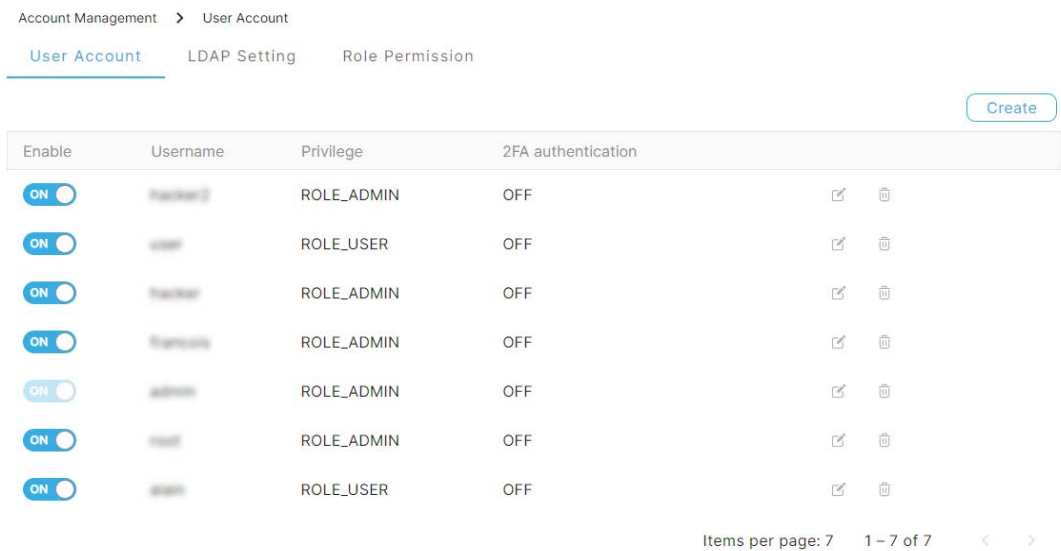
8.1. Viewing user accounts

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 Management > User Account

User Account | LDAP Setting | Role Permission

Create

Enable	Username	Privilege	2FA authentication		
<input checked="" type="checkbox"/>	hacker1	ROLE_ADMIN	OFF		
<input checked="" type="checkbox"/>	user	ROLE_USER	OFF		
<input checked="" type="checkbox"/>	hacker	ROLE_ADMIN	OFF		
<input checked="" type="checkbox"/>	hacker2	ROLE_ADMIN	OFF		
<input checked="" type="checkbox"/>	admin	ROLE_ADMIN	OFF		
<input checked="" type="checkbox"/>	root	ROLE_ADMIN	OFF		
<input checked="" type="checkbox"/>	admin	ROLE_USER	OFF		

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.

Add User Account x

Enable user account ON

Username * ⓘ
 ⓘ Username must be 3 to 30 characters long.
 ⓘ Username must not contain any special characters.

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 Again * ⓘ

Role * ▼

Enable 2FA authentication OFF

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

Enable user account



Username *

admin

Modify User's Password

Password

.....

Role *

ROLE_ADMIN

Enable 2FA authentication



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

Please Input 2fa Code Here

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.	✓	✗	✗	✗
Remote Control Access ⓘ				
Access to perform management tasks including firmware updates and managing BMC user accounts.	✓	✓	✗	✗
Virtual Media Access ⓘ				
Access to use virtual media.	✓	✓	✗	✗
Power Control Access ⓘ				
Access to perform remote power operations and modify power-related settings.	✓	✓	✗	✗
Logs (Modify/delete) ⓘ				
Access to modify or delete the alert logs.	✓	✗	✓	✗
Configuration ⓘ				
Access to modify OneBSM settings as well as discover or add new devices.	✓	✗	✓	✗

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

8.5. 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

Database Usage

255.80 MB Used (Free Space:83 GB)

Database usage and free space

Database Usage Free Space




Free Space Usage: 83

Reset Database Backup

Database Restore

Upload File

No file c... 

Restore

Database Retention

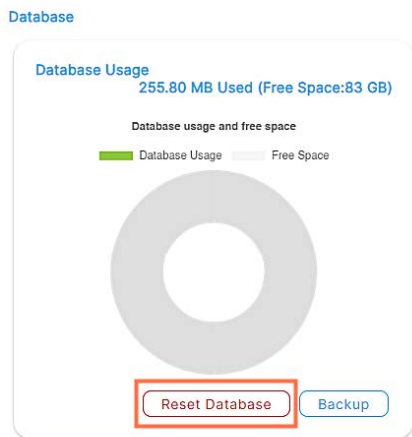
System Log	30	Days
Audit Log	30	Days
Sensor & Power History	30	Days
Alert Log	30	Days

Save Settings

8.6. 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**.



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](#)

8.7. Configuring OneBSM system settings

8.7.1. 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.

System Settings

The screenshot displays the 'System Settings' page with three distinct sections, each containing configuration options and a 'Save Settings' button.

- Auto Logout Timeout Settings:** Features a dropdown menu for 'Auto Logout System Every' currently set to '1 day' and a 'Save Settings' button.
- Device Settings:** Includes a dropdown for 'Background service scan BMC IP interval' set to '5 minutes', a text input for 'Connection timeout between server and BMC' set to '60', and a 'Save Settings' button.
- Carbon Emission Settings:** Shows radio buttons for 'Advance' and 'Basic' (selected), and a text input for 'Carbon Emission Factor' set to '0.63', with a 'Save' button.

3. Click **Save Settings**.

8.7.2. 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.

System Settings

The screenshot displays the 'System Settings' page with three distinct sections:

- Auto Logout Timeout Settings:** Features a dropdown menu for 'Auto Logout System Every' set to '1 day' and a 'Save Settings' button.
- Device Settings:** Includes a dropdown for 'Background service scan BMC IP interval' set to '5 minutes', a text input for 'Connection timeout between server and BMC' with the value '60', and a 'Save Settings' button.
- Carbon Emission Settings:** Shows radio buttons for 'Advance' and 'Basic' (selected), and a text input for 'Carbon Emission Factor' with the value '0.63', accompanied by a 'Save' button.

3. Click **Save Settings**.

8.7.3. Modifying carbon emission viewing settings

Two modes are available for viewing and editing carbon emissions.

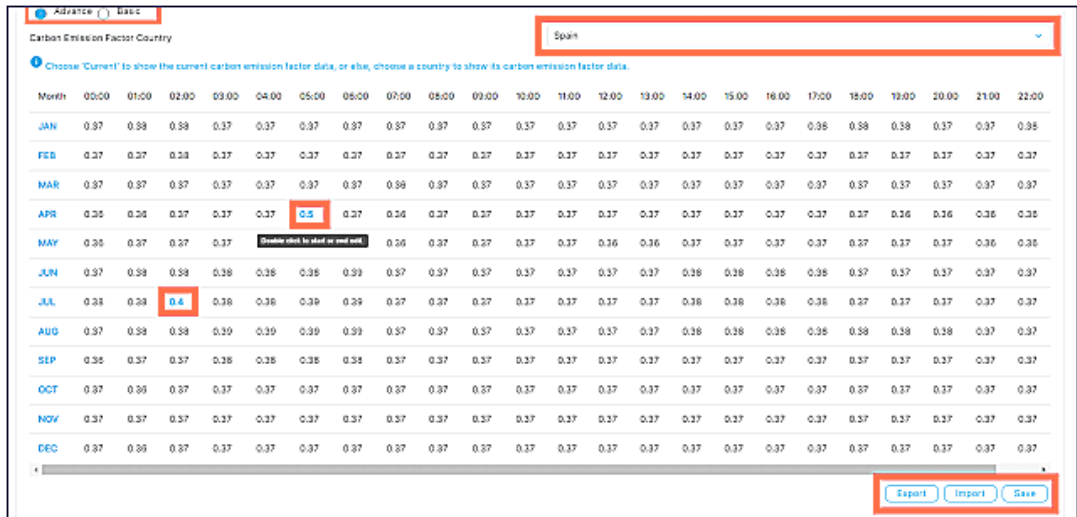
- **Basic mode** : only a single factor value can be entered, which will be applied to all timestamps in the carbon emission factor table.
- **Advance mode** : it is possible to view and edit the carbon emission factor table with hourly and monthly data.

Procedure

1. From the **Configuration** tab, click **System Settings**.

The screenshot displays the 'System Settings' configuration page. It is divided into three sections: 'Auto Logout Timeout Settings', 'Device Settings', and 'Carbon Emission Settings'. The 'Carbon Emission Settings' section is the focus, showing two radio buttons for 'Advance' and 'Basic'. The 'Basic' mode is selected. Below the radio buttons is a text input field labeled 'Carbon Emission Factor' containing the value '0.63'. A 'Save' button is located at the bottom right of this section.

2. From the Carbon Emission Settings pane select **Advance** or **Basic**.
 - a. In **Basic** mode enter the factor value directly into the field.
 - 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	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
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	17:00	18:00	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	0.37	0.37	0.37	0.37	0.37	0.37	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	APR	0.36	0.36	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	0.36	0.36	0.36	0.36
6	MAY	0.36	0.37	0.37	0.37	0.37	0.37	0.36	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	0.36	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	0.37	0.38	0.38	0.38	0.38	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	0.37	0.38	0.38	0.38	0.38	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	0.37	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	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	0.37
11	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	NOV	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.

<input type="checkbox"/>	User Name	Timestamp	Client IP	Action	Description	Result	⋮
<input type="checkbox"/>	admin	10/18/2024, 16:01:28	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:55:29	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:38:47	10.197.176.13	UPDATE	Execute update manual group "Group"	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:37:51	10.197.176.13	CREATE	Execute create manual group "Group"	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:28:05	10.197.176.13	DELETE	Delete node list	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:27:18	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:17:57	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 15:10:49	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 14:26:06	10.197.176.13	LOGIN	Login success	SUCCESS	
<input type="checkbox"/>	admin	10/18/2024, 14:00:26	10.197.176.13	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.

System Log

[Clear All](#) [Export Data](#)

<input type="checkbox"/>	Timestamp	Description	Result	
<input type="checkbox"/>	10/18/2024, 11:41:07	Common Gettoken : [REDACTED]	FAILED	
<input type="checkbox"/>	10/18/2024, 11:40:23	Common Gettoken : [REDACTED]	FAILED	
<input type="checkbox"/>	10/17/2024, 19:34:08	Common Gettoken : [REDACTED]	FAILED	

Items per page: 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 All Alert Export Data

IP	Hostname	MAC	Count
10.107.176.80	100-427-79	18-C0-4D-79-18-D8	34


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.


Update System

Update SSL keys of OneBSM server

No file chosen 


 Please upload the public key of SSL files (.pem accept only)


No file chosen 

 Please upload the private key of SSL files (.crt accept only)

Update oneBSM keys

Update OneBSM server Current Version: x.x.x

No file chosen 

 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 Config

Export OneBSM setting config file

Export

Restore OneBSM setting

No file chosen 

Update

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 Config

Export OneBSM setting config file

Export

Restore OneBSM setting

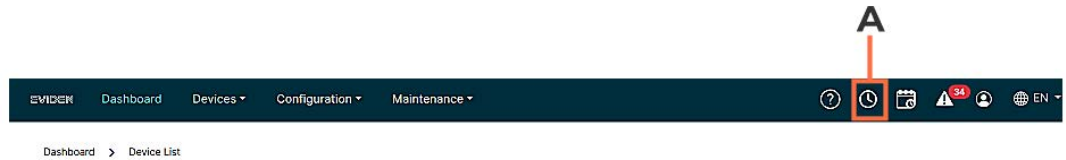
No file chosen 

Update

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**.

Time Settings

Current Time Tue Jul 16 2024 17:02:20 GMT+0200 (Central European Summer Time)

Current Time Zone UTC +02:00 Europe/Paris

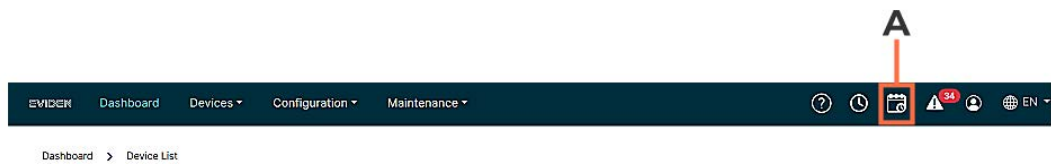
Time Settings

Time Zone Settings

[Save](#)

9.8. Viewing scheduled tasks

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



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.

The screenshot shows the 'Incomplete Task List' table. The table has columns for Task Name, Type, Target, Start Time, End Time, Interval, and Action buttons. The first two rows are selected. The first row is 'firmware update 0321' with a 'Once' interval. The second row is 'remove media 0321' with a 'Once' interval. The table also includes a 'Select All' button, a 'Deselect All' button, and a 'Selected Items: 2' indicator. The 'Items per page' is set to 4, and there are 4 items in total.

Task Name	Type	Target	Start Time	End Time	Interval	Action
firmware update 0321	Firmware Update	10.1116.170, 10.1116.162	3/21/2024, 03:00:00 PM	3/21/2024, 03:00:00 PM	Once	[Run] [Delete]
remove media 0321	Virtual Media	10.1116.170, 10.1116.162	3/21/2024, 04:00:00 PM	3/21/2024, 04:00:00 PM	Once	[Run] [Delete]
power limit	Set Power Limit	10.1116.170, 10.1116.162	22:10	22:10	Day	[Run] [Delete]
Chassis Identify 0321	Chassis Identify	10.1116.170, 10.1116.162	07:45	07:45	Week (Saturday)	[Run] [Delete]

- 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.

The screenshot shows the 'Complete Task List' table. The table has columns for Task Name, Type, Target, Start Time, End Time, Interval, Result, and Action buttons. The first row is '110:100:PowerLimit_Test2' with a 'Failed' result. The second row is 'Chassis Identify 0320' with a 'Success' result. The third row is 'light on 0308-2' with a 'Failed' result. The table also includes a 'Select All' button, a 'Deselect All' button, and a 'Selected Items: 3' indicator. The 'Items per page' is set to 8, and there are 8 items in total.

Task Name	Type	Target	Start Time	End Time	Interval	Result	Action
110:100:PowerLimit_Test2	Set Power Limit	10.1116.109	3/20/2024, 05:00:00 PM	3/20/2024, 05:00:02 PM	Day	10.1116.109: FAILED	[Run] [Delete]
Chassis Identify 0320	Chassis Identify	10.1116.170, 10.1116.162	3/20/2024, 05:00:00 PM	3/20/2024, 05:00:01 PM	Week (Wednesday)	10.1116.170: OK 10.1116.162: OK	[Run] [Delete]
light on 0308-2	Chassis Identify	10.1116.162, 10.1116.170	3/20/2024, 01:44:20 PM	3/20/2024, 01:44:21 PM	Day	10.1116.162: OK 10.1116.170: FAILED	[Run] [Delete]
remove media 0120	Virtual Media	10.1116.77, 10.1116.63	3/15/2024, 11:05:00 AM	3/15/2024, 11:05:03 AM	Week (Friday)	10.1116.77: FAILED 10.1116.63: FAILED	[Run] [Delete]
firmware update 0308	Firmware Update	10.1116.170, 10.1116.162	3/8/2024, 11:22:00 AM	3/8/2024, 11:22:15 AM	Once	10.1116.170: Success 10.1116.162: Success	[Run] [Delete]
light on 0308	Chassis Identify	10.1116.162, 10.1116.170	3/8/2024, 09:24:00 AM	3/8/2024, 09:24:00 AM	Once	10.1116.162: OK 10.1116.170: OK	[Run] [Delete]
110:100:PowerLimit_Test1	Set Power Limit	10.1116.109	2/29/2024, 06:00:00 PM	2/29/2024, 06:00:02 PM	Once	10.1116.109: OK	[Run] [Delete]
Wss feUpdate_Test	Firmware Update	10.1116.61	2/28/2024, 04:45:00 PM	2/28/2024, 04:45:15 PM	Once	10.1116.61: Success	[Run] [Delete]

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

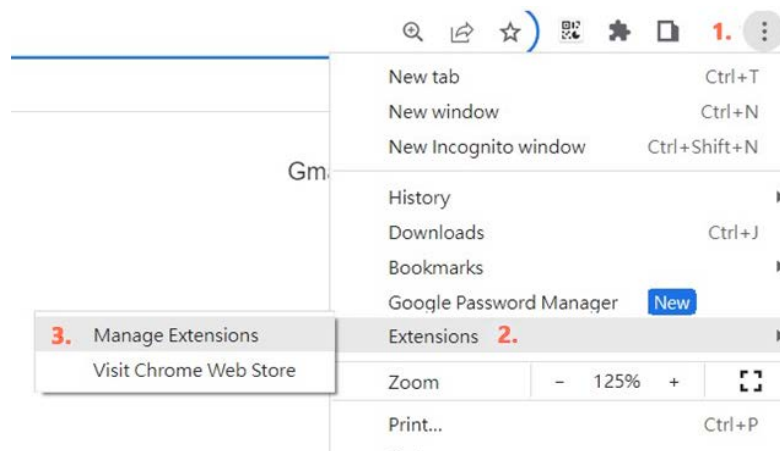
Appendix A. Logging in with the 2FA authentication

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

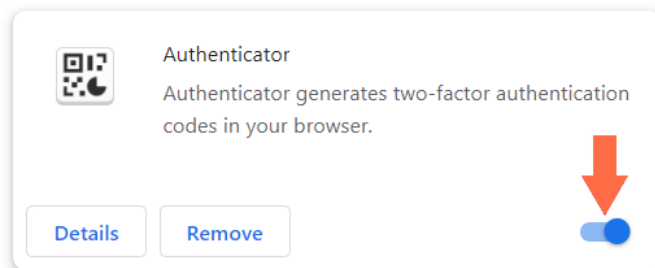
A.1. Installing the authenticator app

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.



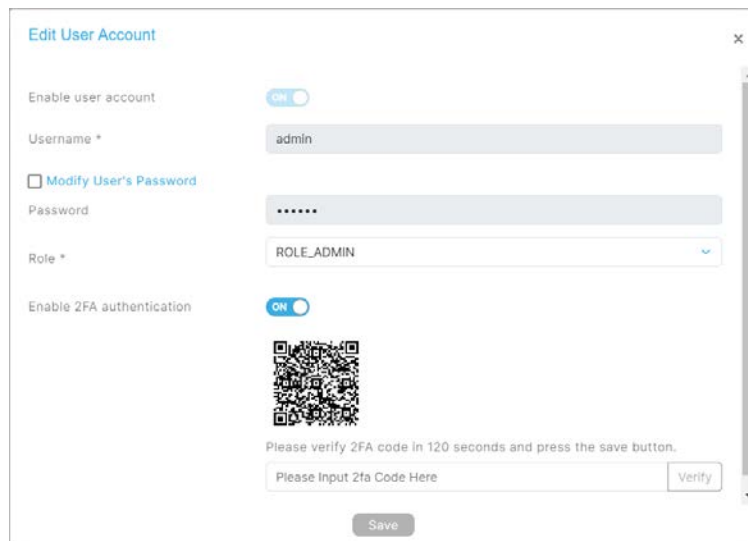
4. Enable the authenticator app. The app will be pinned on the toolbar after enabling.



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.



The screenshot shows a web form titled "Edit User Account" with a close button (X) in the top right corner. The form contains the following fields and controls:

- Enable user account:** A toggle switch set to "ON".
- Username *:** A text input field containing "admin".
- Modify User's Password:** A checkbox that is currently unchecked.
- Password:** A text input field with masked characters "*****".
- Role *:** A dropdown menu showing "ROLE_ADMIN".
- Enable 2FA authentication:** A toggle switch set to "ON".
- QR Code:** A square QR code for scanning.
- Verification Instructions:** The text "Please verify 2FA code in 120 seconds and press the save button." is displayed below the QR code.
- Input Field:** A text input field with the placeholder "Please Input 2fa Code Here" and a "Verify" button to its right.
- Save Button:** A "Save" button located at the bottom center of the form.

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	√	√	√	√	√	√	√	√
BullSequana SH 20 (monomodule)	√	√	√	√	√	√	√	√
BullSequana EXR/EXD	√	√	√	√	√	√	√	√
BullSequana SH multimodule (Primary module)	√	√	√	√	√	√	√	√
BullSequana SH multimodule (Secondary module)	√	√	N/A	√	√	N/A	N/A	N/A
BullSequana SH multimodule (Group)	N/A	N/A	√	N/A	N/A	√	√	N/A

