EVIDEN

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 uptodate 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

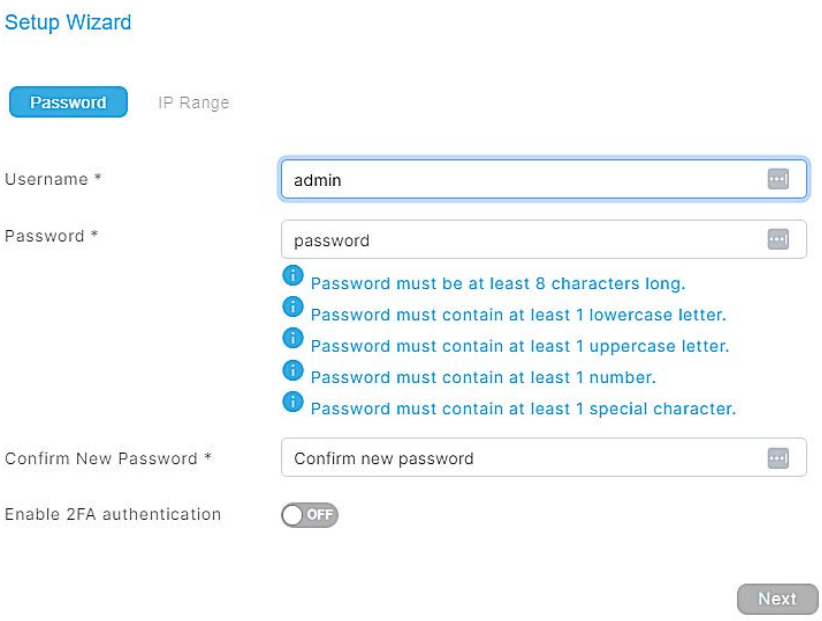
Note On virtual machines the full IP address must be used and not “localhost”.

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.

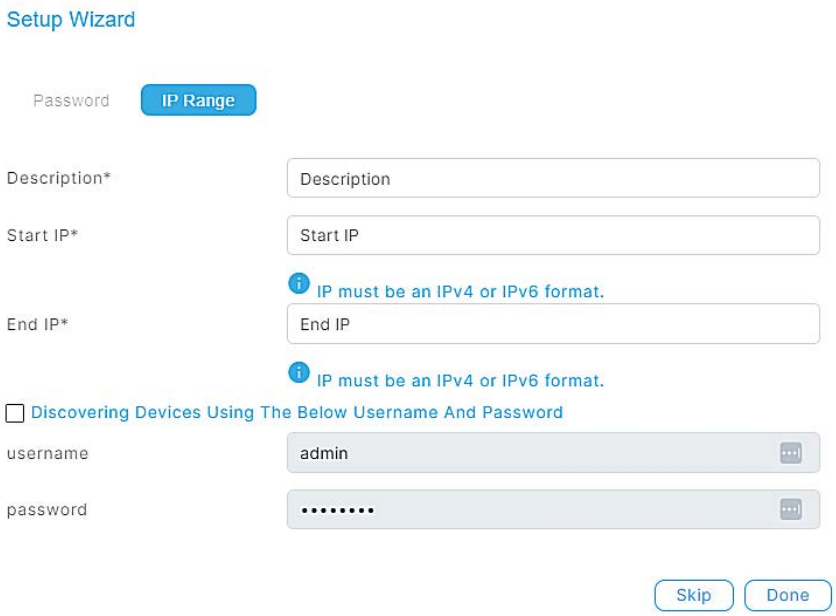
3. Enter the first time user name and password.

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.



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

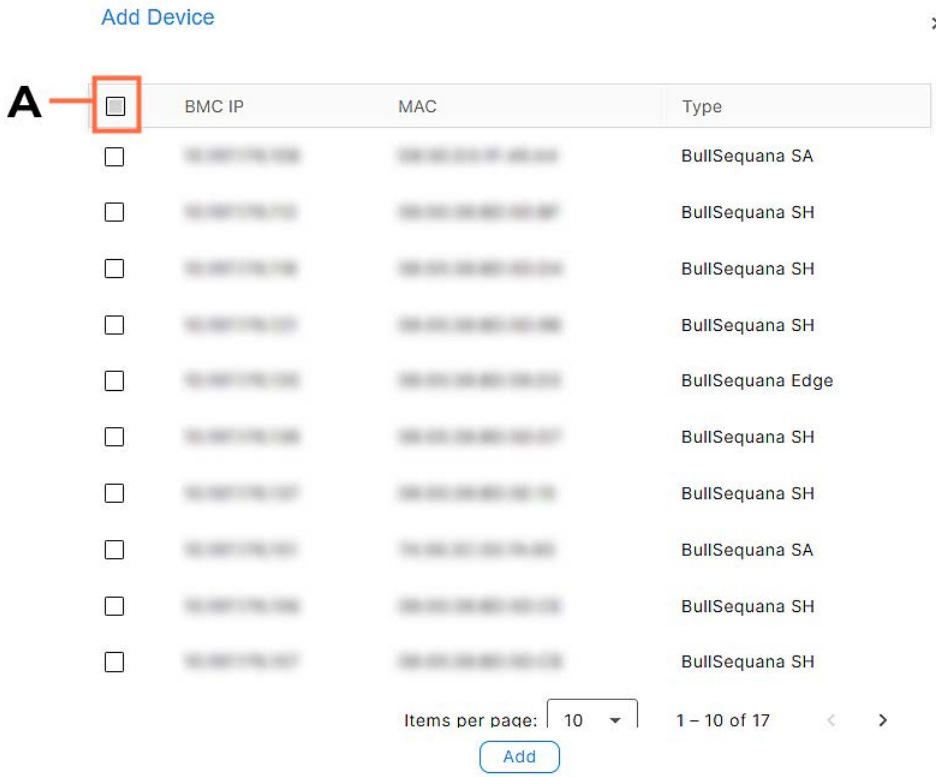


Note Click **Skip** to postpone the device discovery. See 2.1. Adding devices to the Device List

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.



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

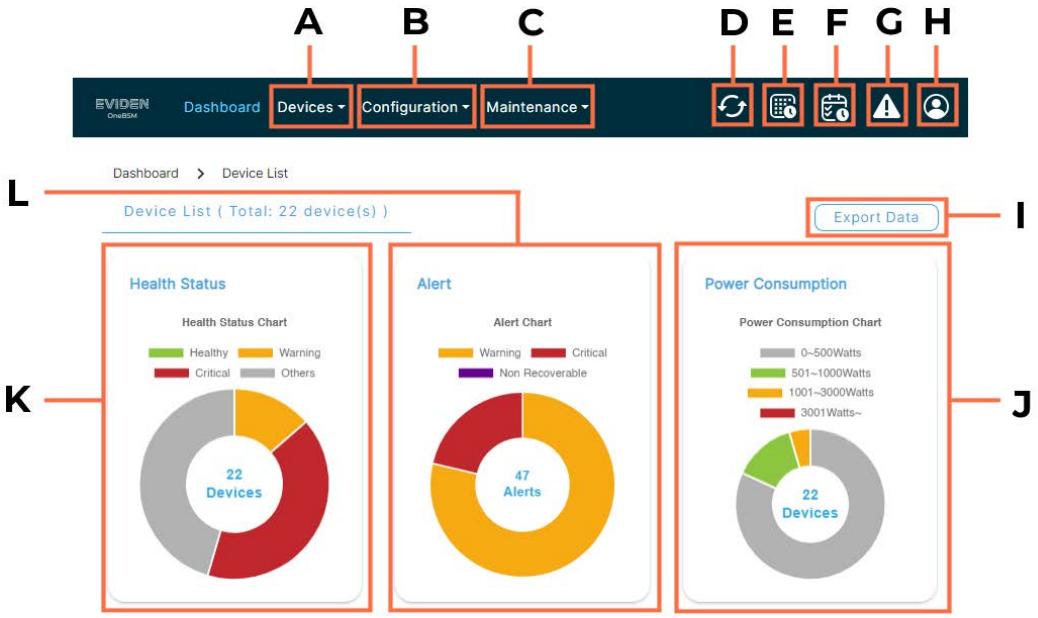
Tab	Item
Devices	Discovery
	Device List
	Groups
Configuration	Account Management
	Notification Settings
	Database
	System Settings
Maintenance	Audit Log
	System Log
	Alert Log
	Update System
	Export Config

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.

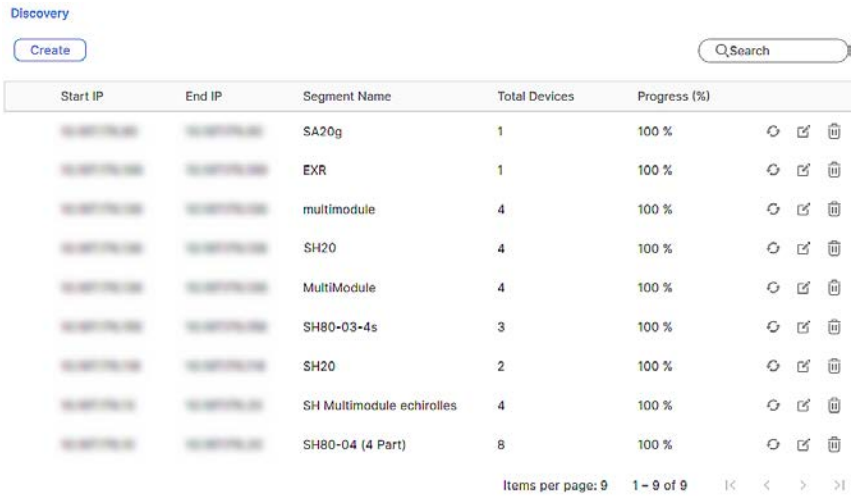
Note Each scan, as set by the scan interval, will also refresh other details periodically, for example BMC hostname, the network configuration and inventory information.

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.

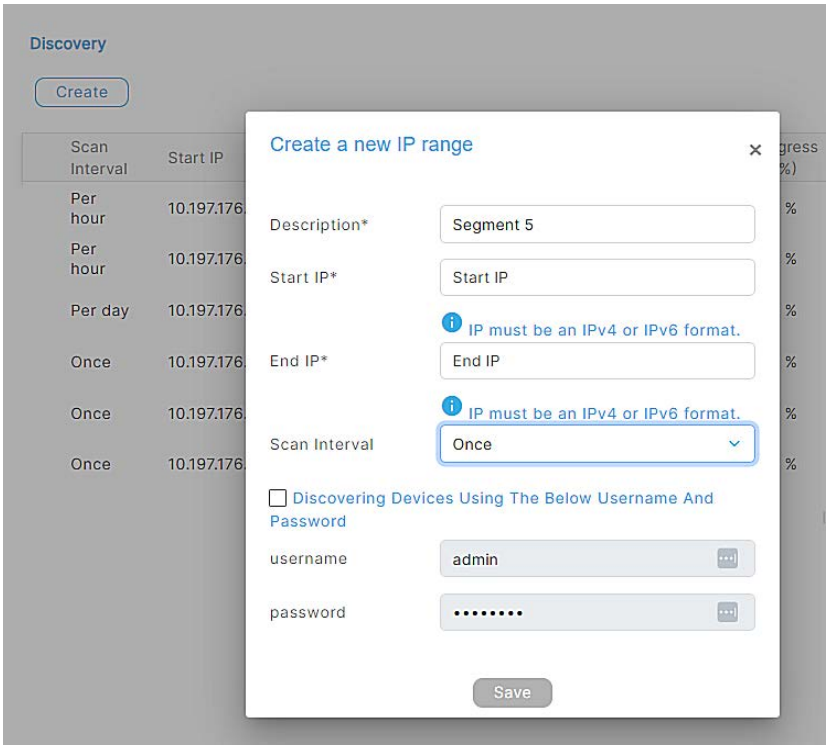
Setting a range of IP addresses for a scan

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

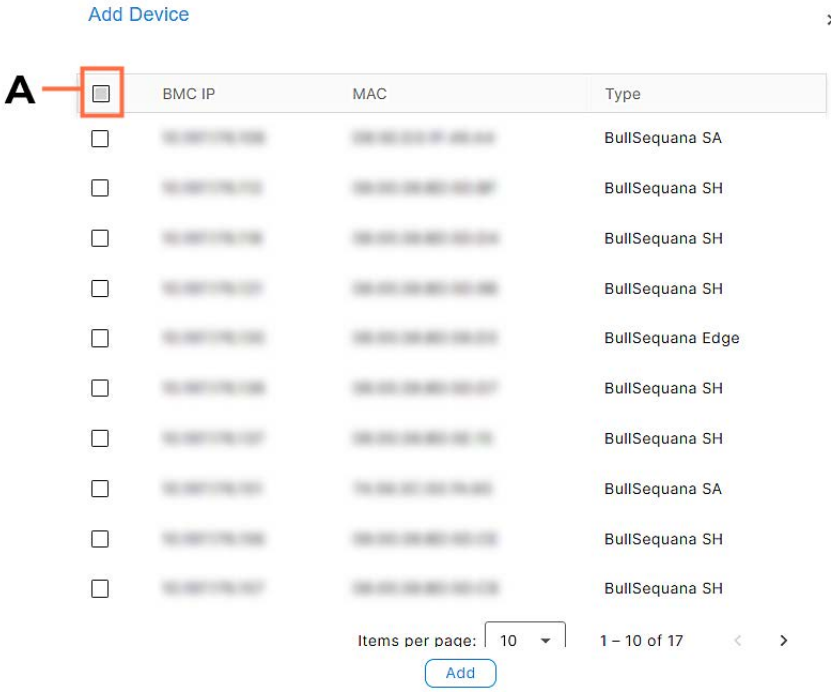


Note All input data should be in a valid format, and the IP address range must not be a duplicate

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.



5. Click **Save.**

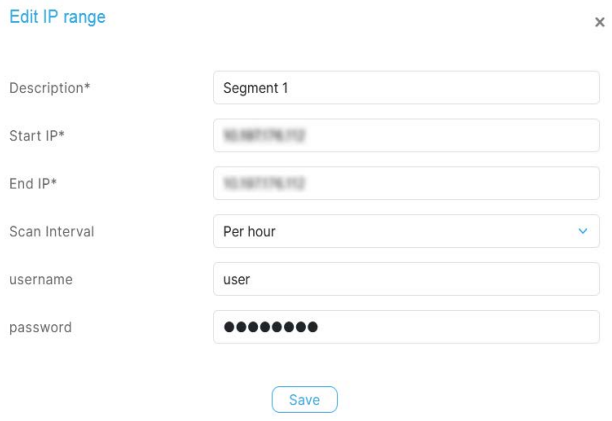


6. The IP range results are displayed. Click the checkbox(A) and click **Add**. This will initiate a discovery action after which all the supported selected devices will be added to the **Device List**.

Editing an existing range of IP addresses for a scan

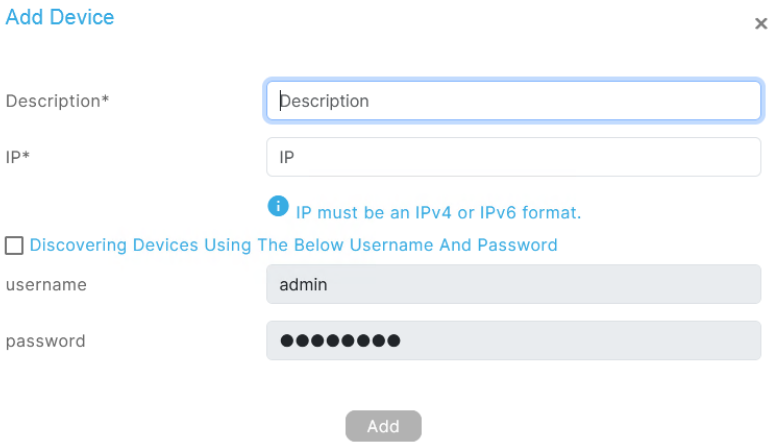
Note	All input data should be in a valid format, and the IP range must not be a duplicate.

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.



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.**

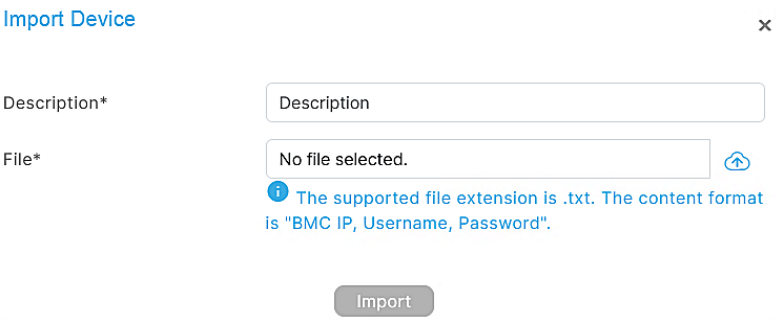


3. Enter the IP address and description for the new device.
4. Click **Add**.

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.**

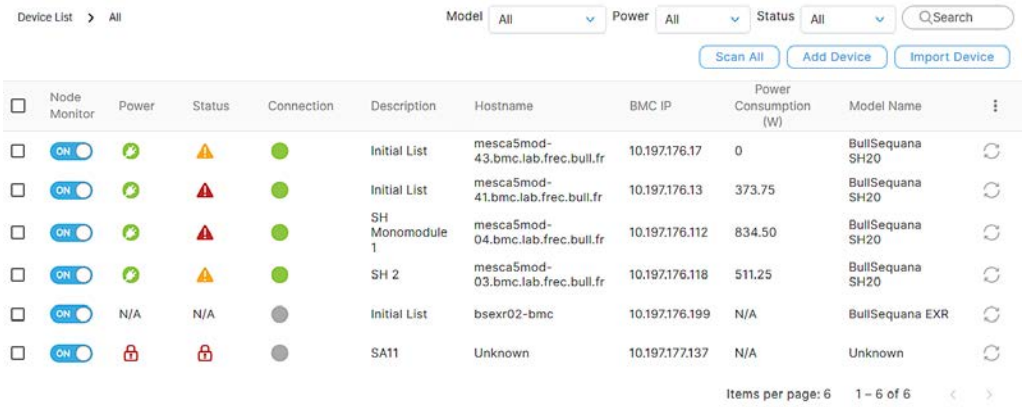


3. Add a Description of the device.
4. Fetch the .txt file with the device details.
5. Click **Import**.

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

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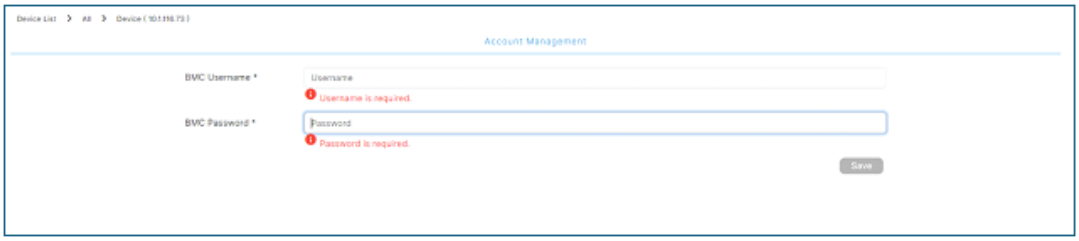
A keyword search function will filter data according to the keyword entered.

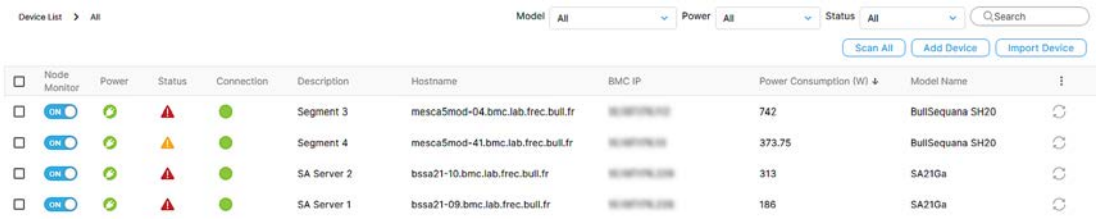
2.3. Accessing a device page

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.



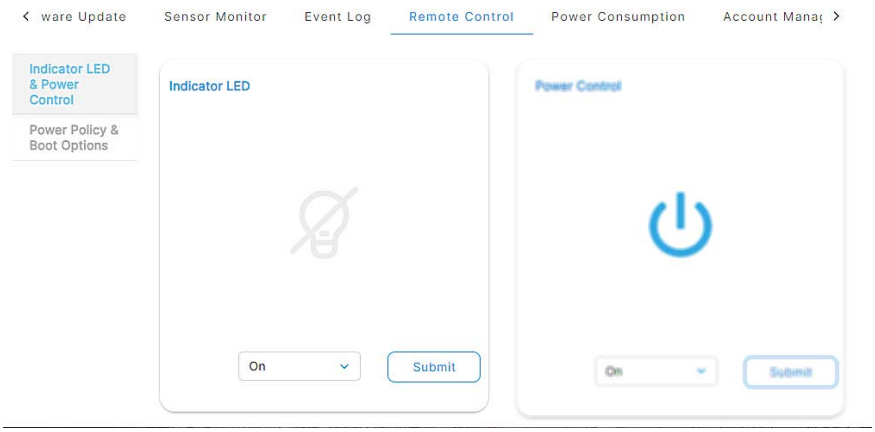
2.4. Filtering devices

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.



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.

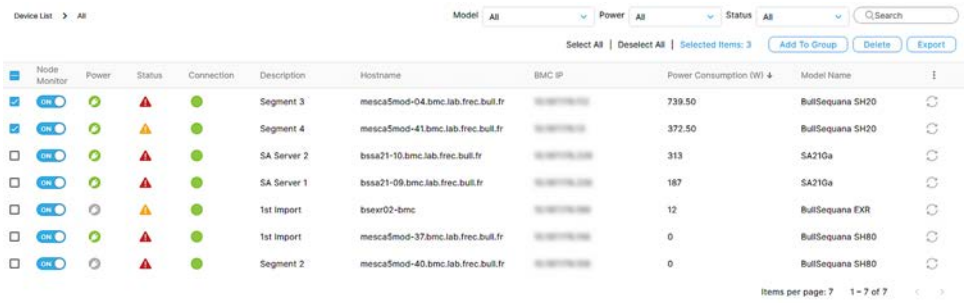
The result of the LED operation will be displayed on the screen, and the light bulb icon will update to reflect the current LED status.

Chapter 3. Managing groups of devices

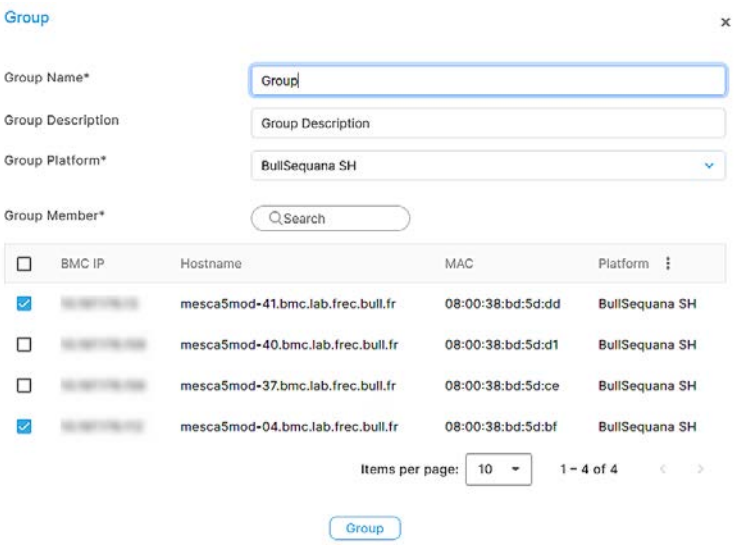
3.1. Grouping devices

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.



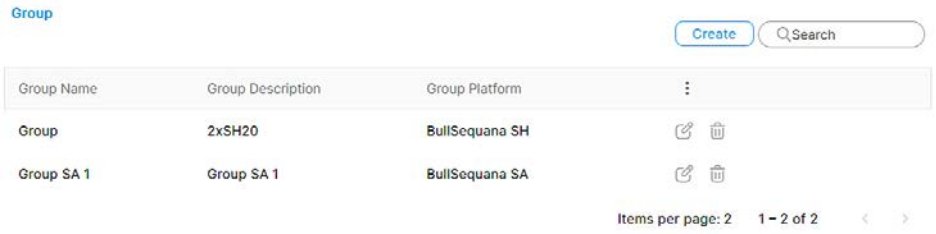
4. Enter the group details and select a platform type for the group.



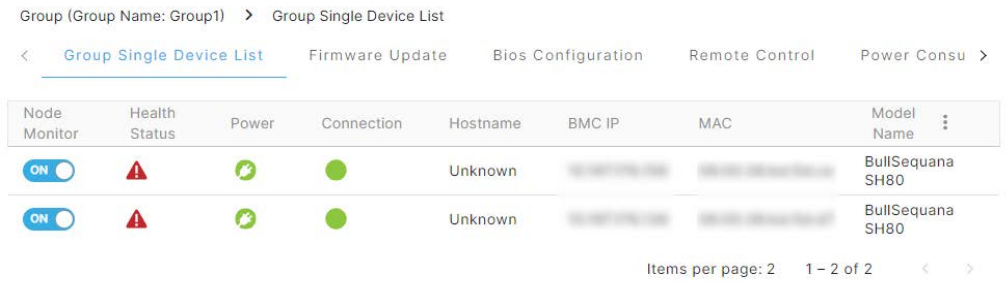
5. Click the **Group** button to submit the data and to see the results on the screen.

3.2. Viewing device groups

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



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



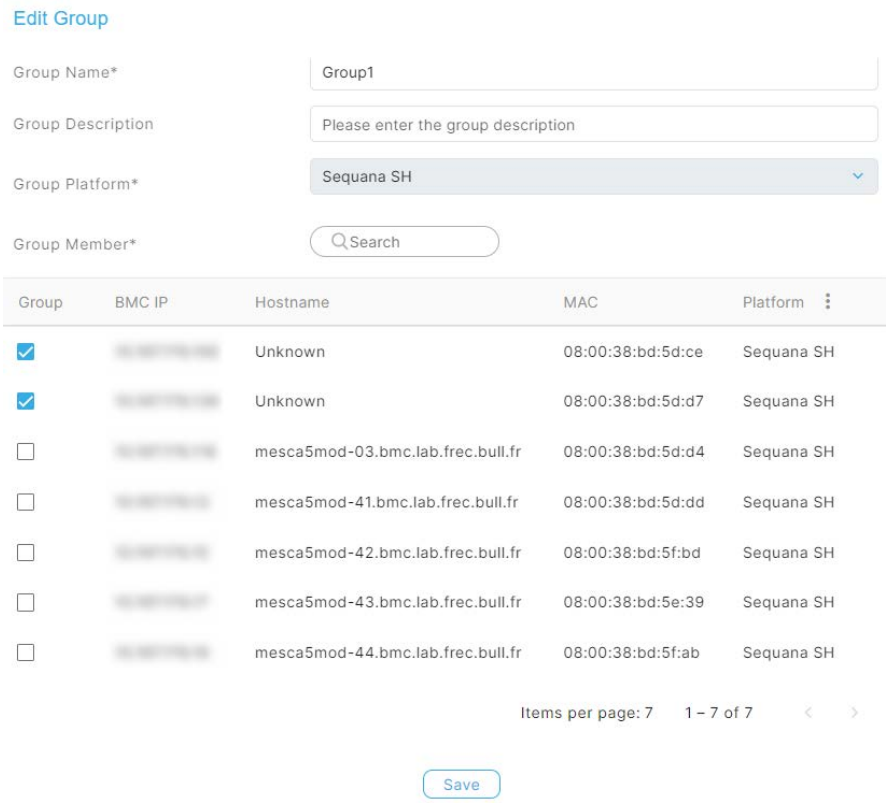
Each group can be deleted or edited using the action icon buttons.

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

3.3. Editing a device group

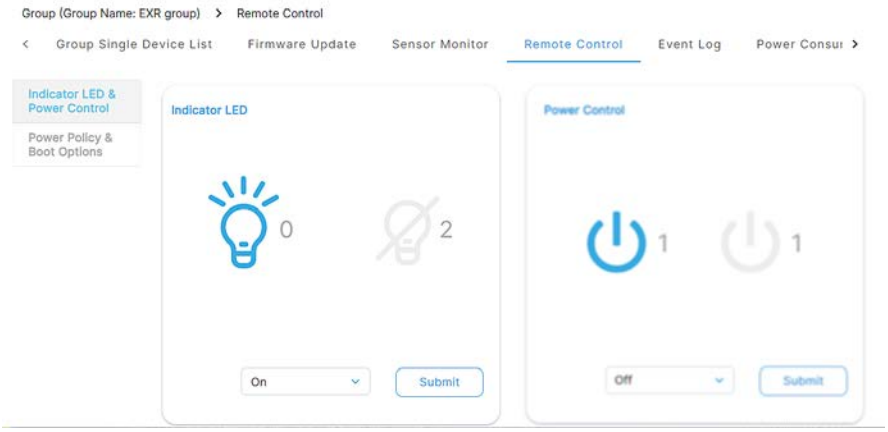
Note Different server types cannot be grouped together.

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.



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.

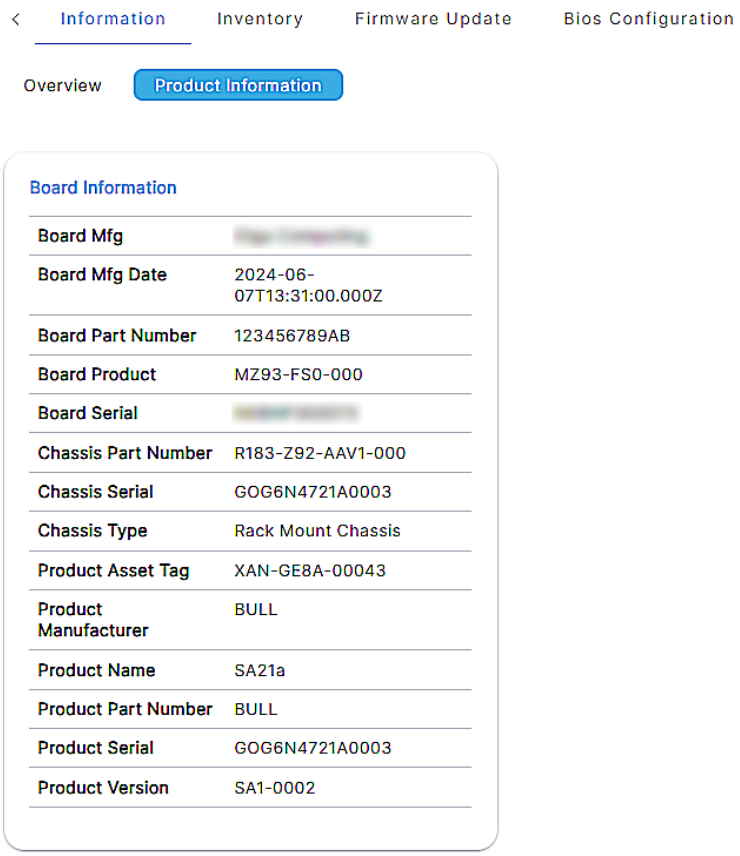
Note The default duration for the LED to stay on is 15 seconds.

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

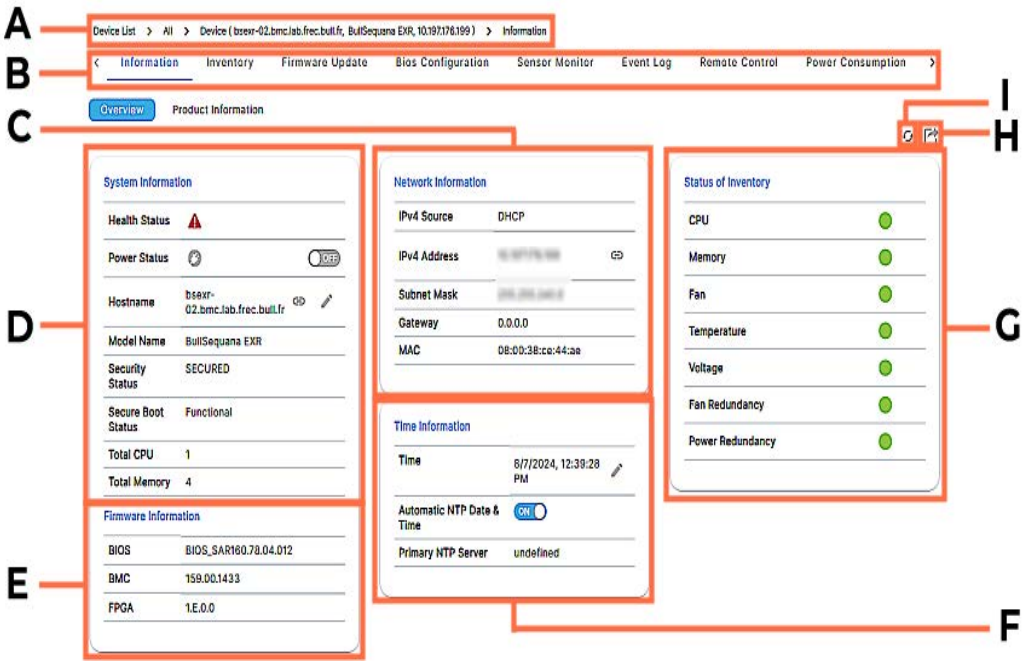
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. Click the **Product information** tab. The **Product Information** sub-page opens with board and product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



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

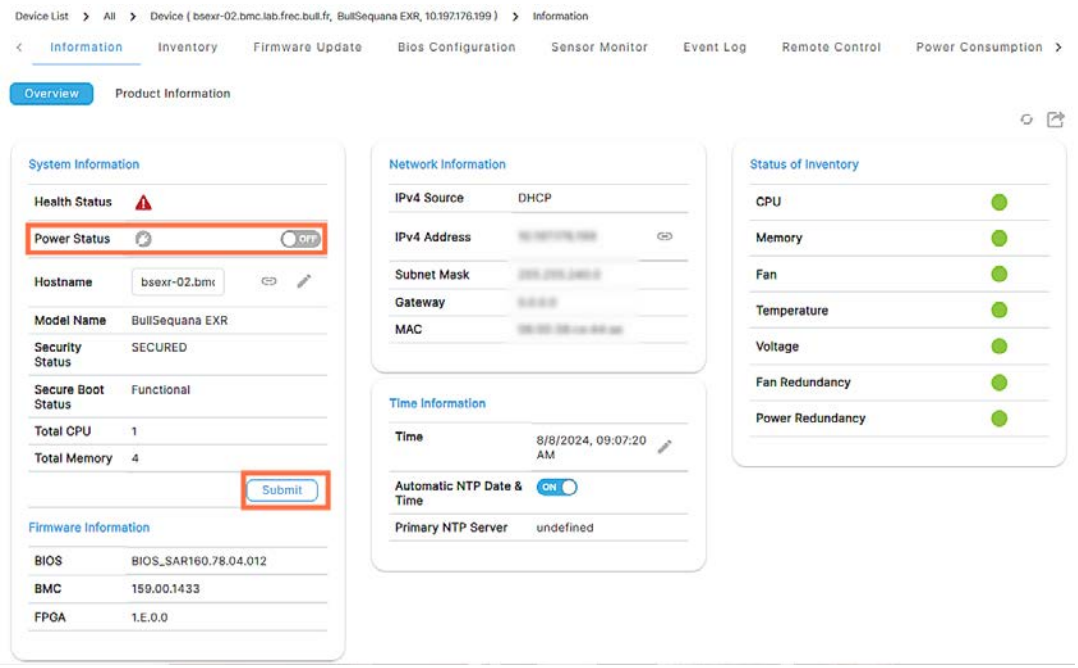
The Device sub-menus displayed at the top of the page for a server vary according to server type.

See Appendix B. Server configuration sub-menus

4.3. Powering on / off a device

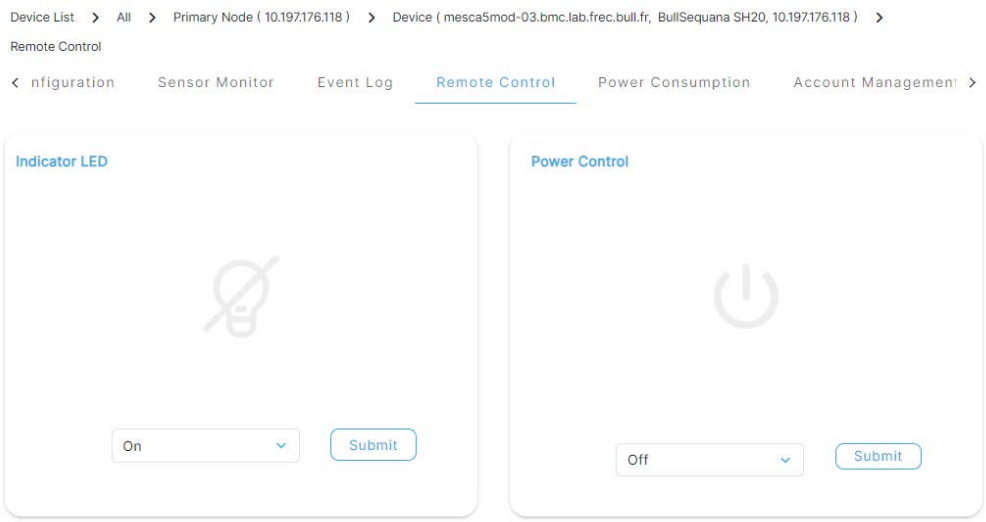
4.3.1. Powering on / off from the Overview window

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.



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.

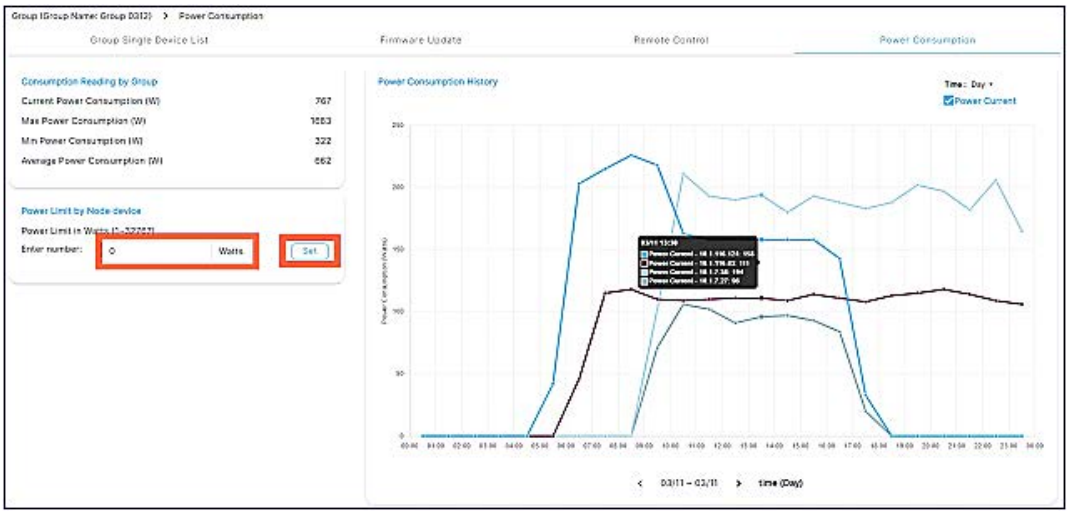
The result will be displayed and the power icon will update to reflect the new power status.

4.4. Configuring power limits for BullSequana SA servers

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

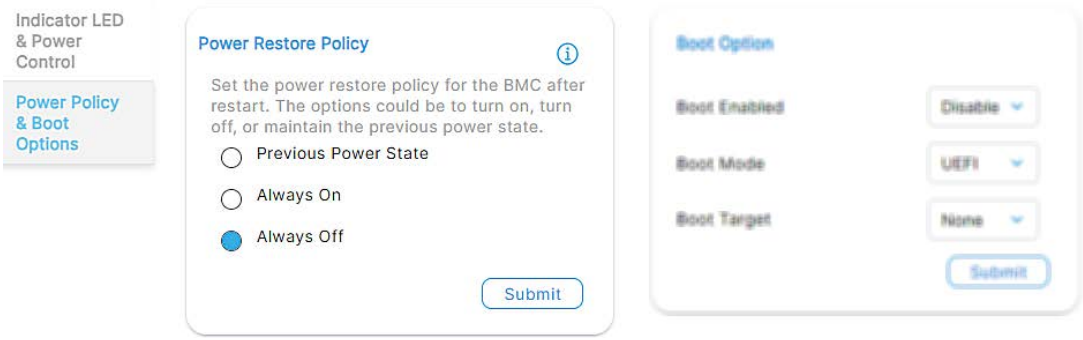
Power Limit settings allow a power limit to be set and activated.

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

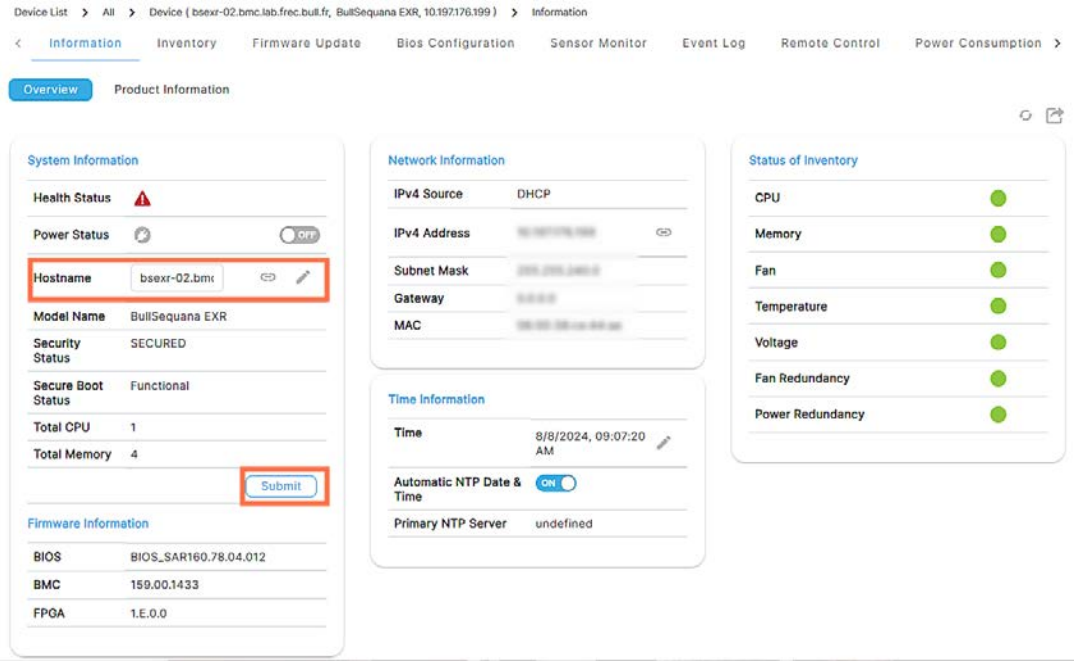
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.



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

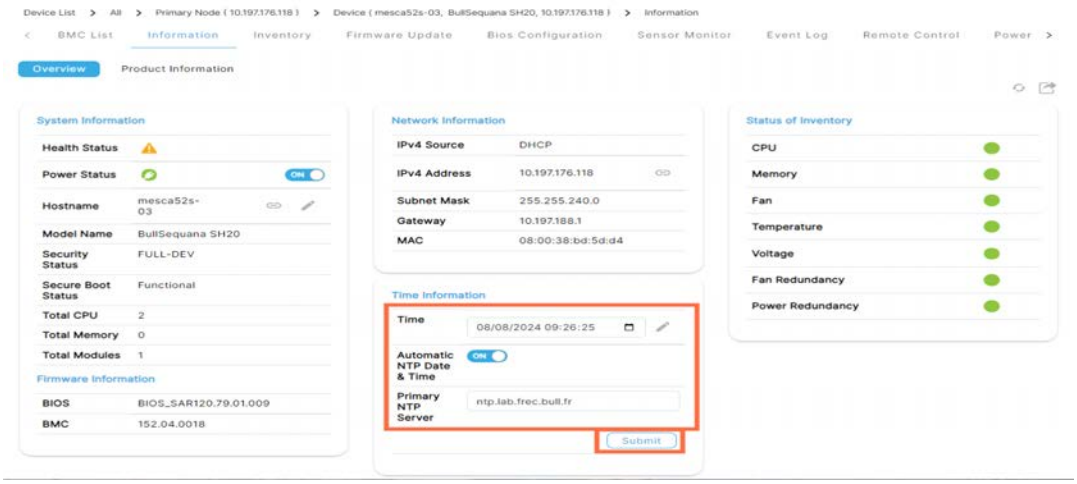
4.6. Changing the host name

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.



4.7. Changing the device time settings

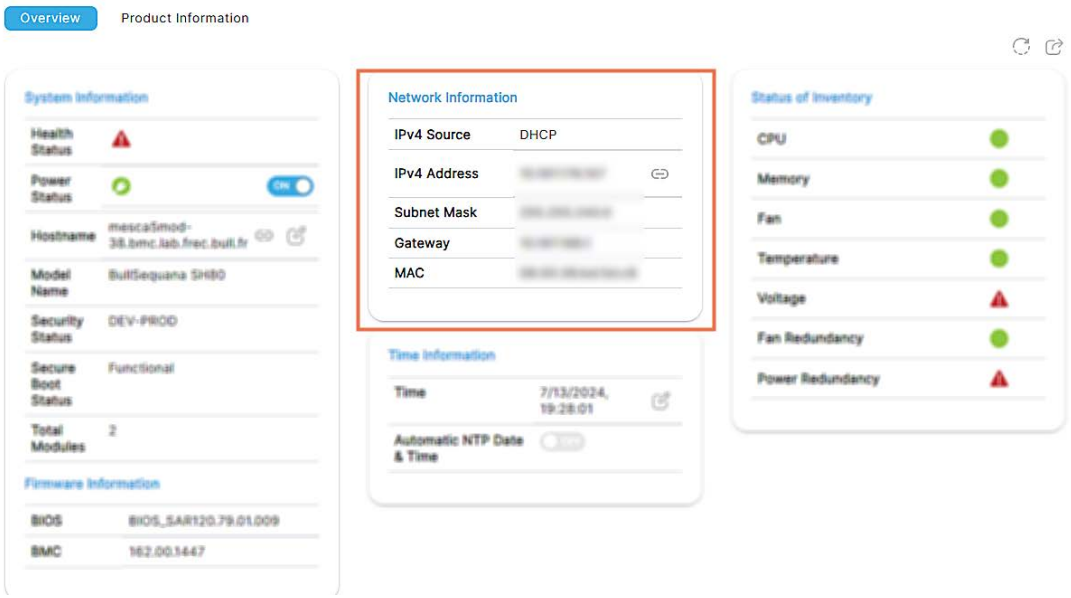
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. Click the **Overview** tab.
5. Change the time settings, as required.
6. Click the **Submit** button.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

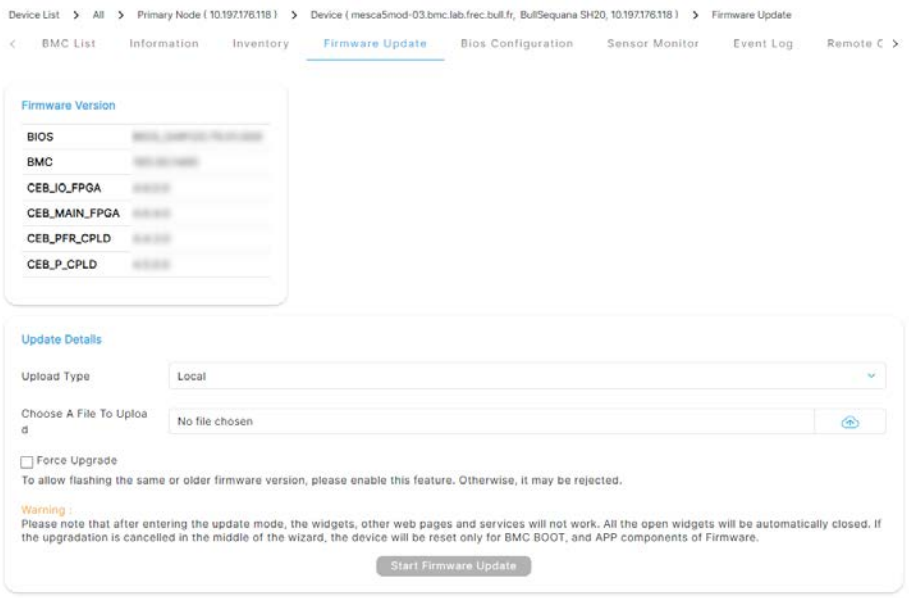


4.9. Updating device firmware

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

To update firmware for a single device:

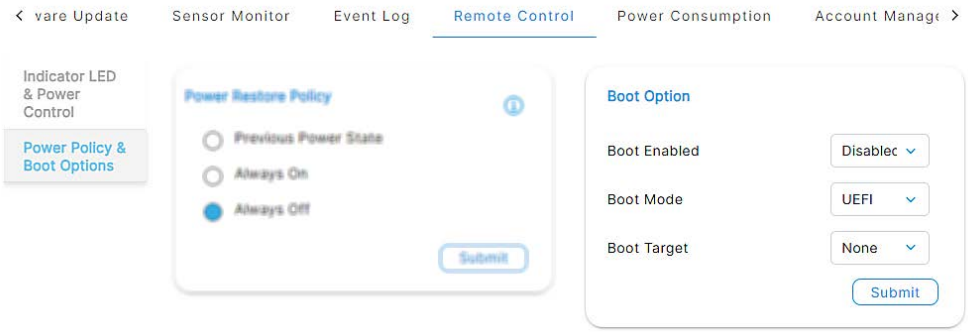
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. Select the device and click the **Firmware Update** tab. The firmware update window opens
5. Choose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



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.

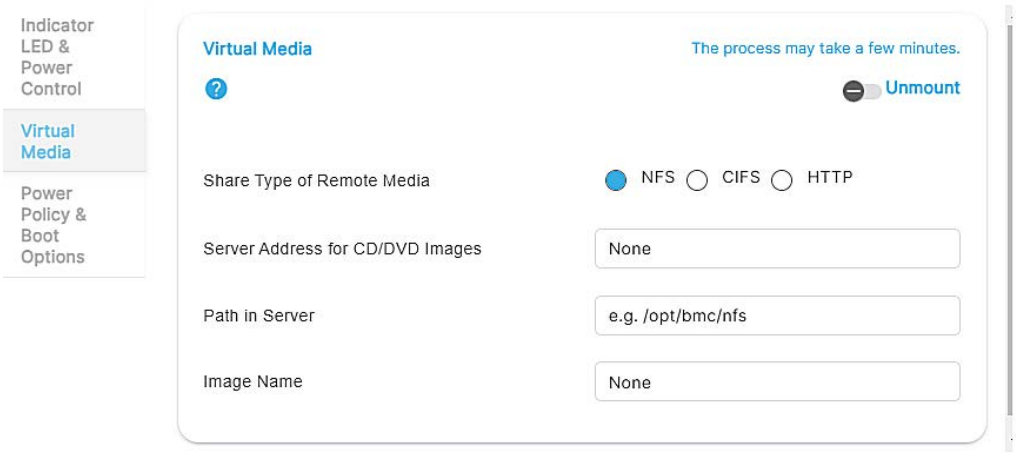
Target	Description
None	
Pxe	Boots from a PXE server
Hdd	Boots from a hard disk
Diags	Boots from a diagnostic partition
BiosSetup	Boots from the BIOS menu
Usb	Boots from a USB key

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

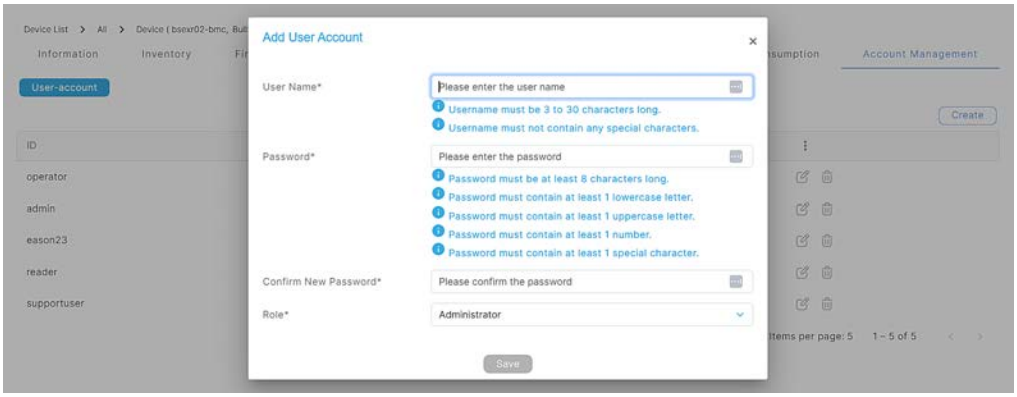


6. Enter the share type, server address, path on the server, and image name. No input is needed for unmounting.
7. Toggle the switch to perform mount or unmount actions.
8. The result of the virtual media operation will be displayed on the screen.

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

4.12. Creating a BMC user account

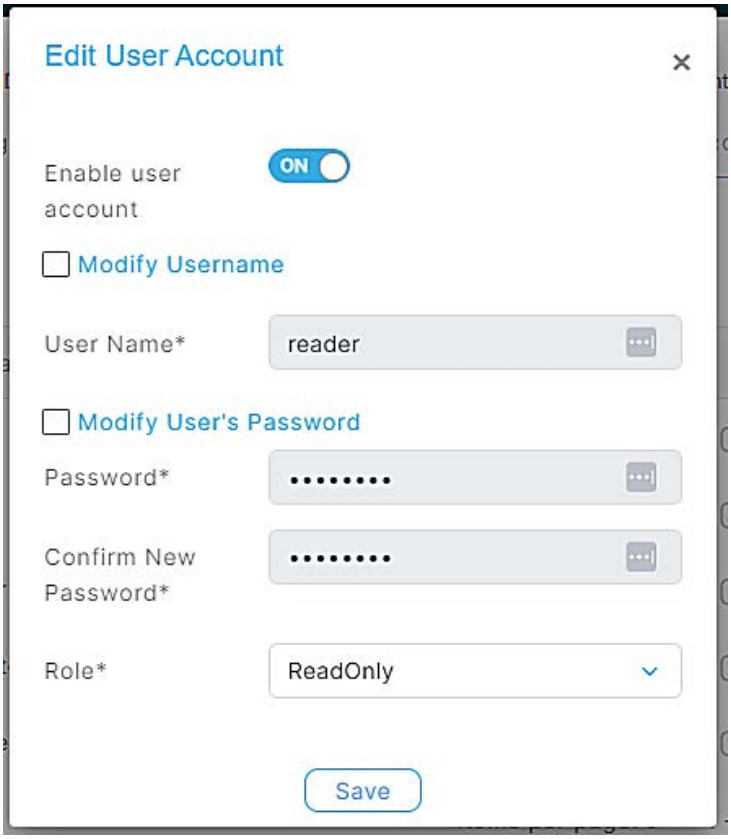
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. From the **Account Management** sub menu click **Create.**



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.



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

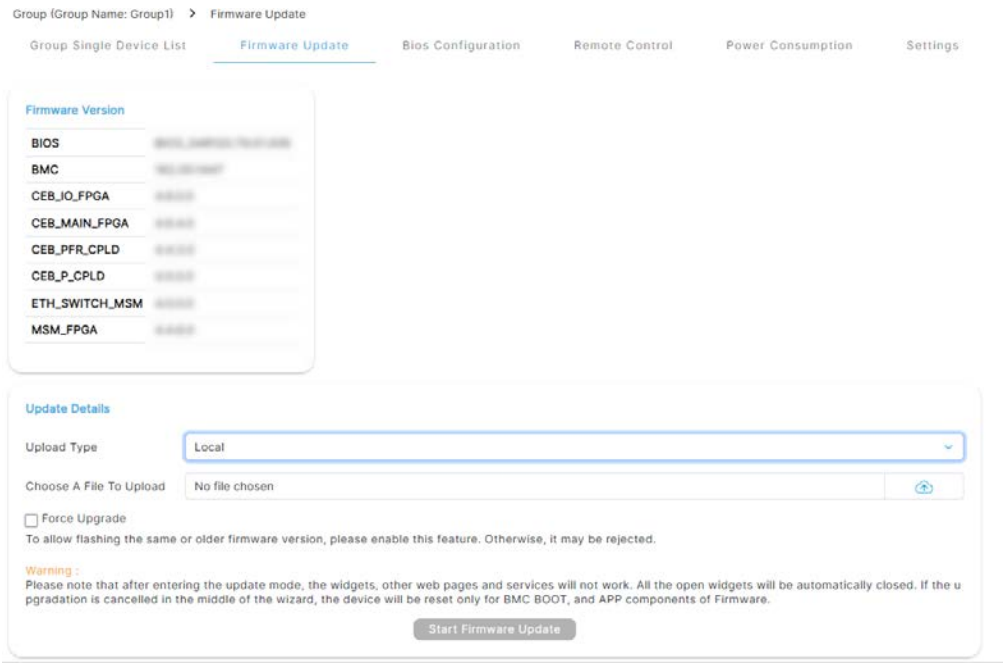
Chapter 5. Configuring device groups

5.1. Updating group firmware

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

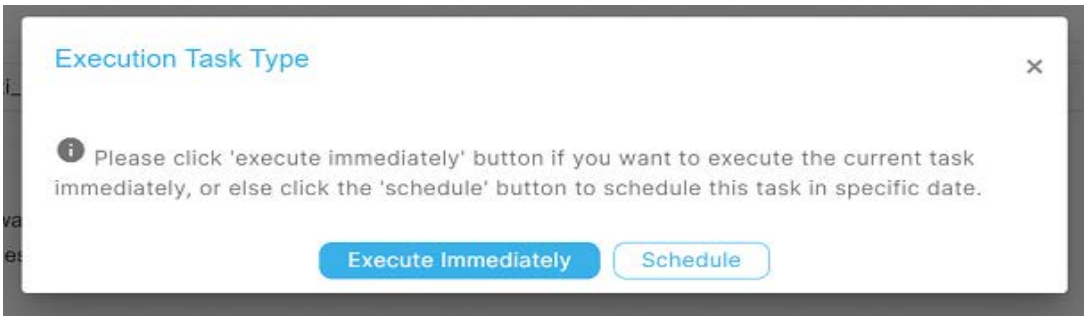
Notes For group firmware updates, only the local path is supported for the **Upload Type**.

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.

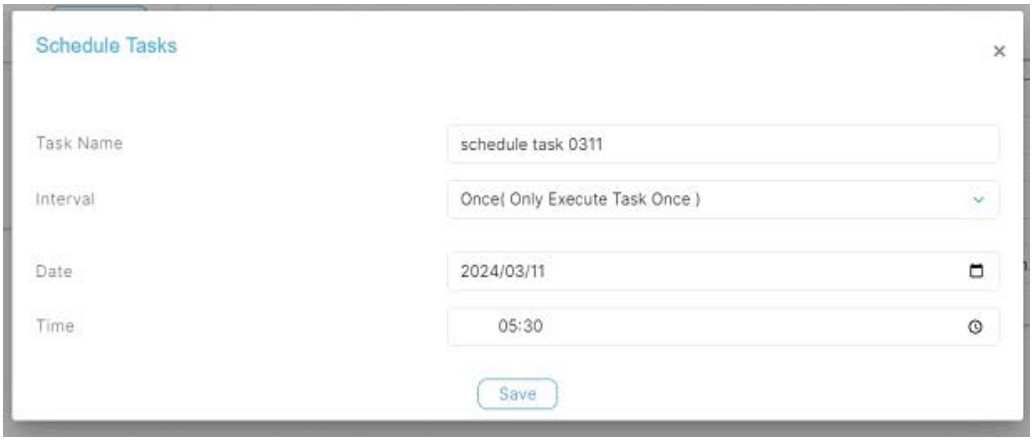


5. Select the local path for the file to be uploaded.
6. Click **Start Firmware Update**.

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

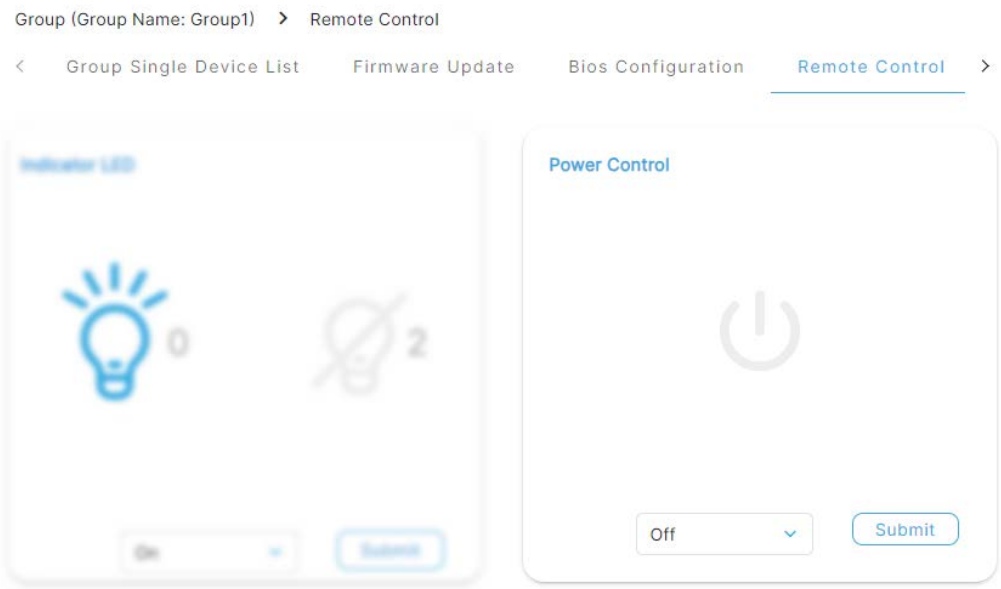


8. Enter the **Date** and **Time** if scheduled for later.

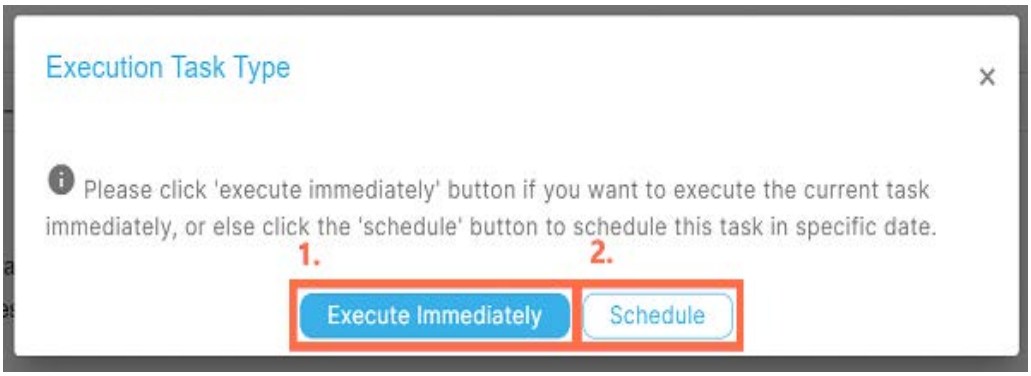


5.2. Powering on / off a device group

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.



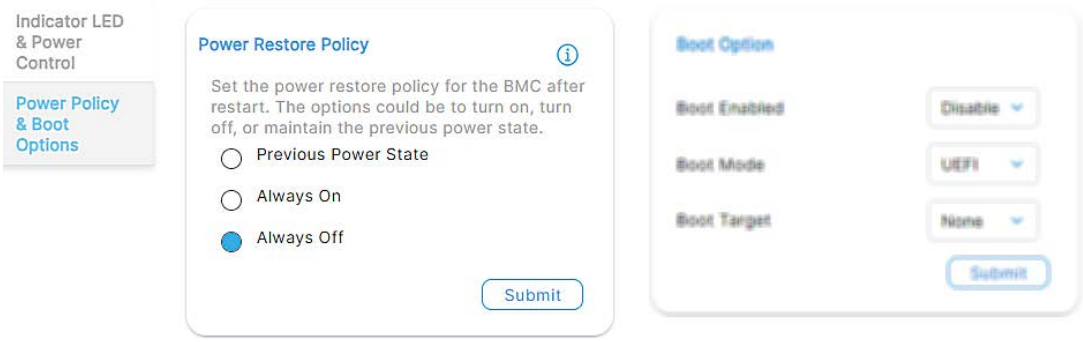
4. Choose an option to perform actions such as **On**, **Off**, **Hard Reset**, or **Graceful Shutdown**.
5. Click the **Submit** button.
6. For group power control, decide whether the task should be executed immediately or at a scheduled time.



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

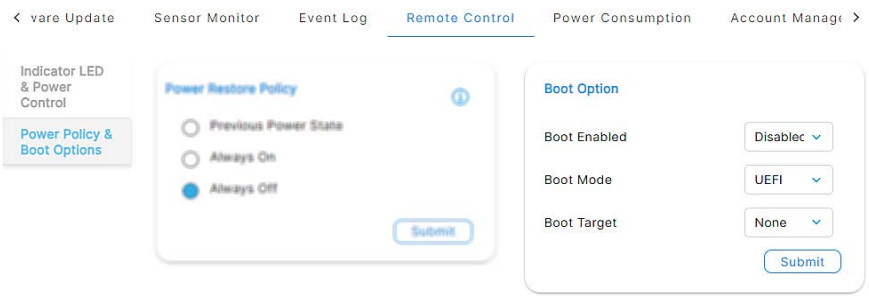
1. From the **Devices** page, click **Groups**.
2. In the **Group** window, click on the group required.
3. From the **Remote Control** tab, click the **Power Policy & Boot Options** button.



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.



4. Select the boot options, as required.

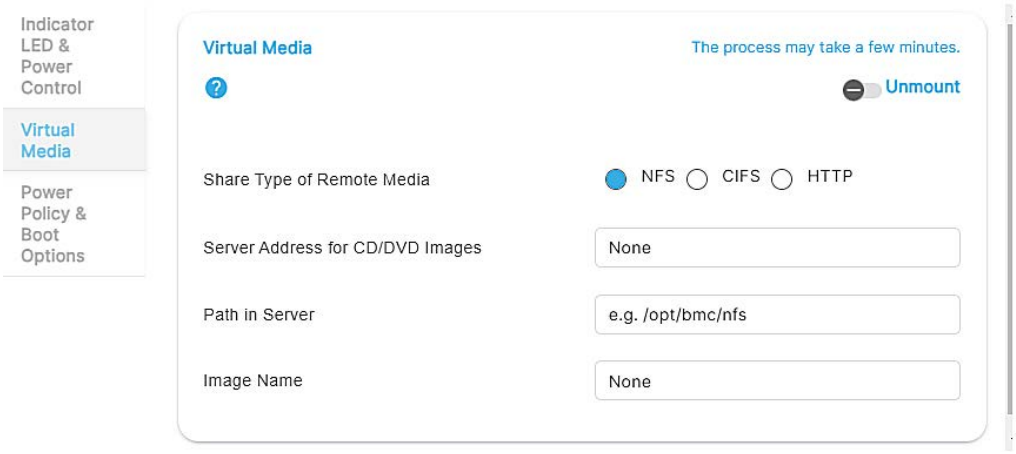
Target	Description
None	
Pxe	Boots from a PXE server
Hdd	Boots from a hard disk
Diags	Boots from a diagnostic partition
BiosSetup	Boots from the BIOS menu
Usb	Boots from a USB key

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



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.

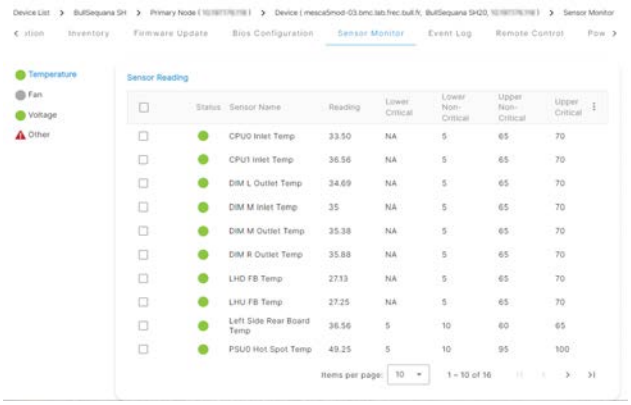
Note If the image is successfully mounted, it will start and run on the target IP.

Chapter 6. Monitoring devices

6.1. Viewing sensor data for a device

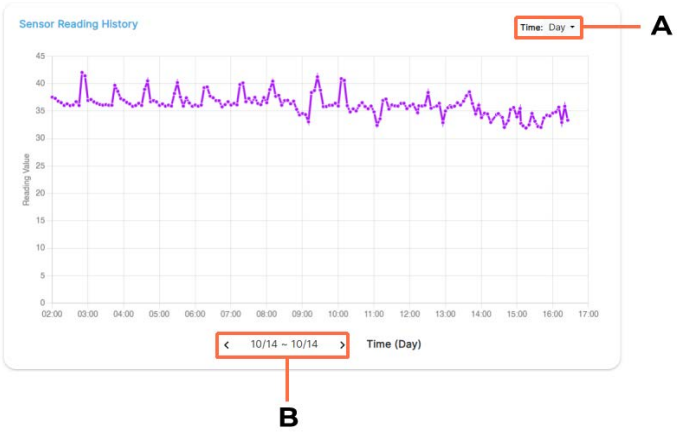
The **Sensor Monitor** page displays the status, readings, and thresholds of all sensors for a device. A chart of historical readings for each sensor is also available.

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**.



6. Select an individual sensor.

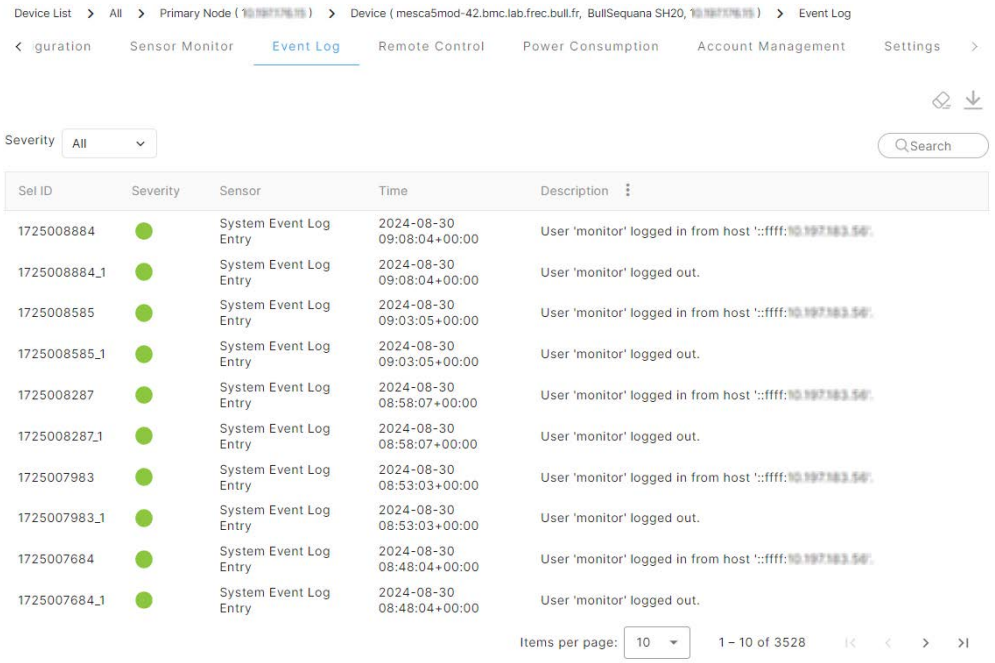
   Scroll down the page to see the Sensor Reading History. The time interval (A) and period (B) can be changed, as required.



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.



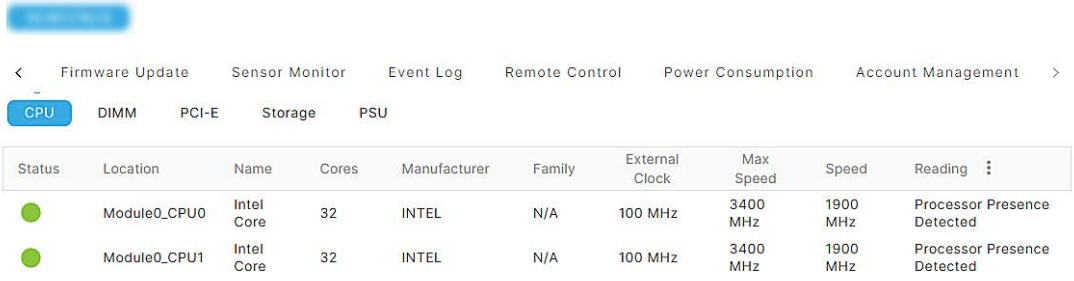
5. Filter the data by **Event Direction**, **Severity** level and **Sensor Type**, as required.
6. Use the options to clear all event log data or to download all event log data, as required

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.



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.

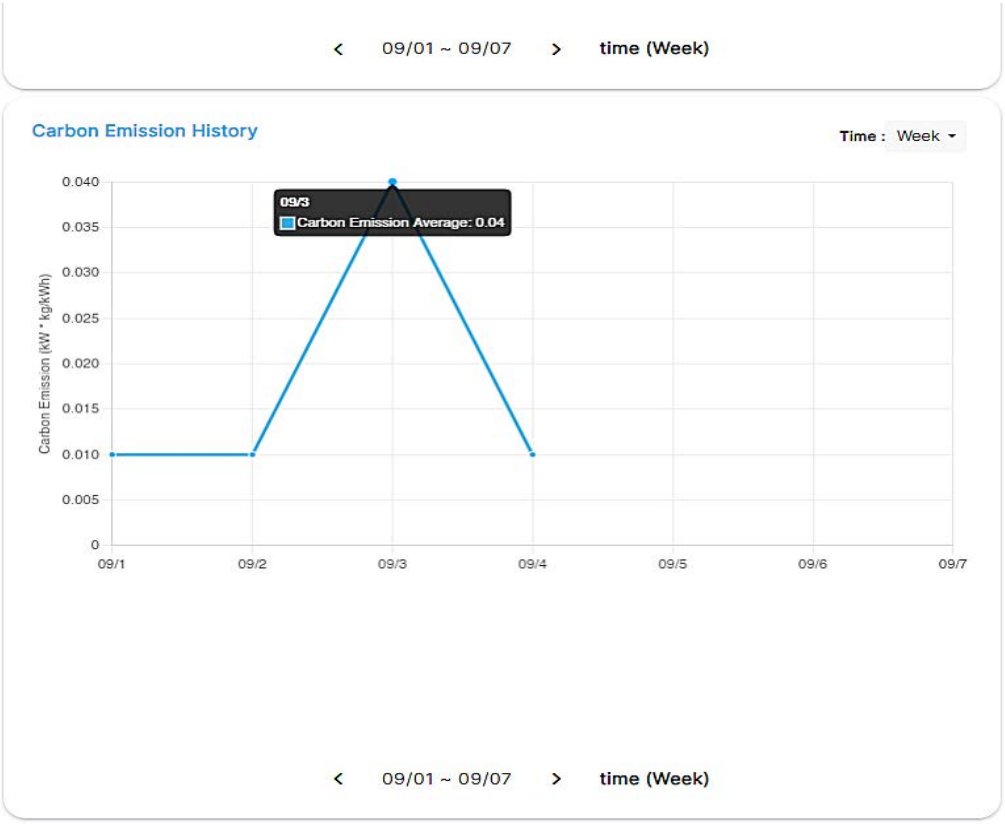
1. From the **Devices** tab, click **Device List**.
2. From the **Device List** page, click **All** or select server type.
3. Click on the server required in the list, the **Information** page opens.
4. Select the device and click the **Power Consumption** tab. The Power Consumption window opens,

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.



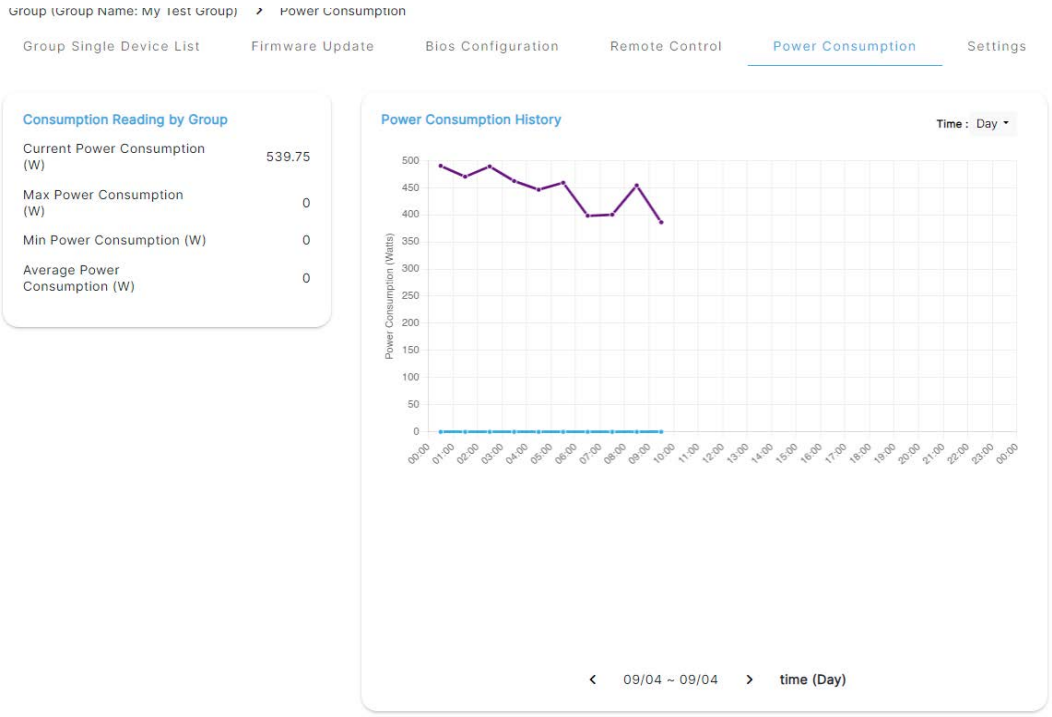
Chapter 7. Monitoring groups

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.

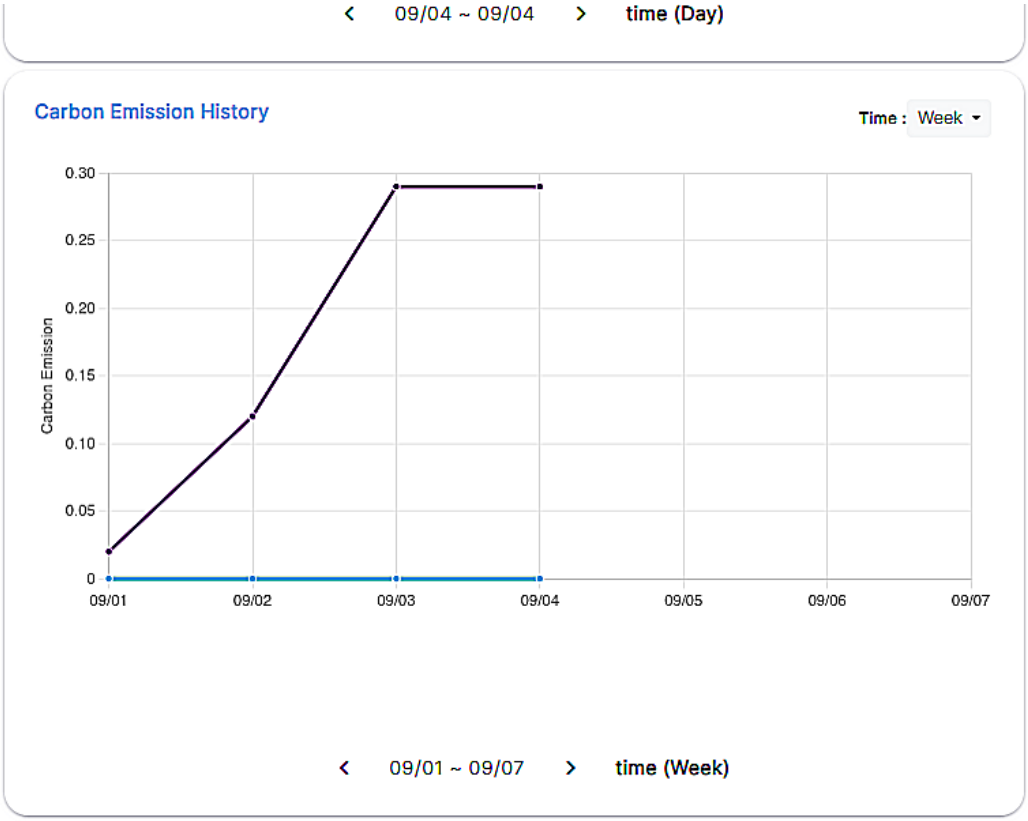


7.2. Viewing carbon emissions for a group

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

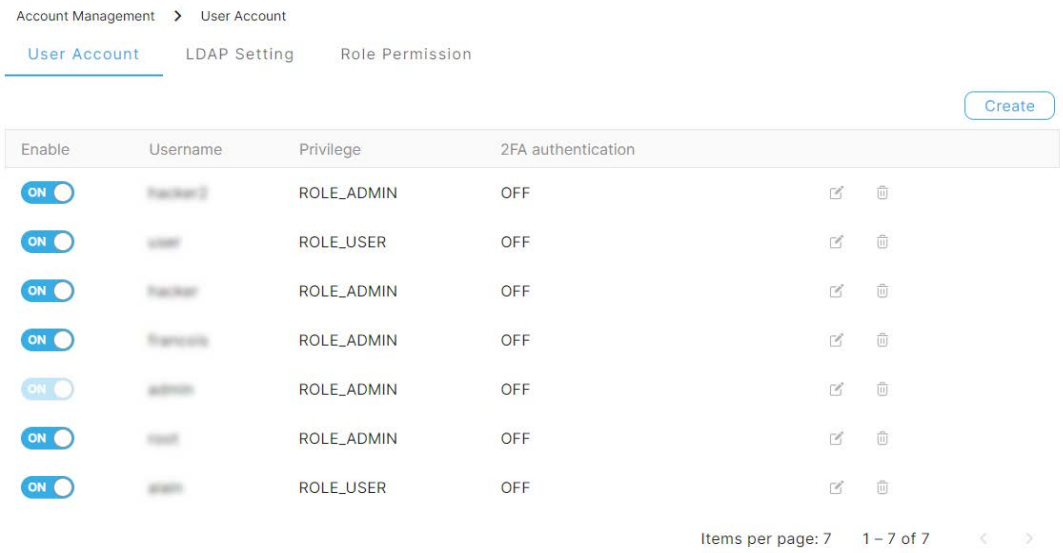
8.1. Viewing user accounts

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

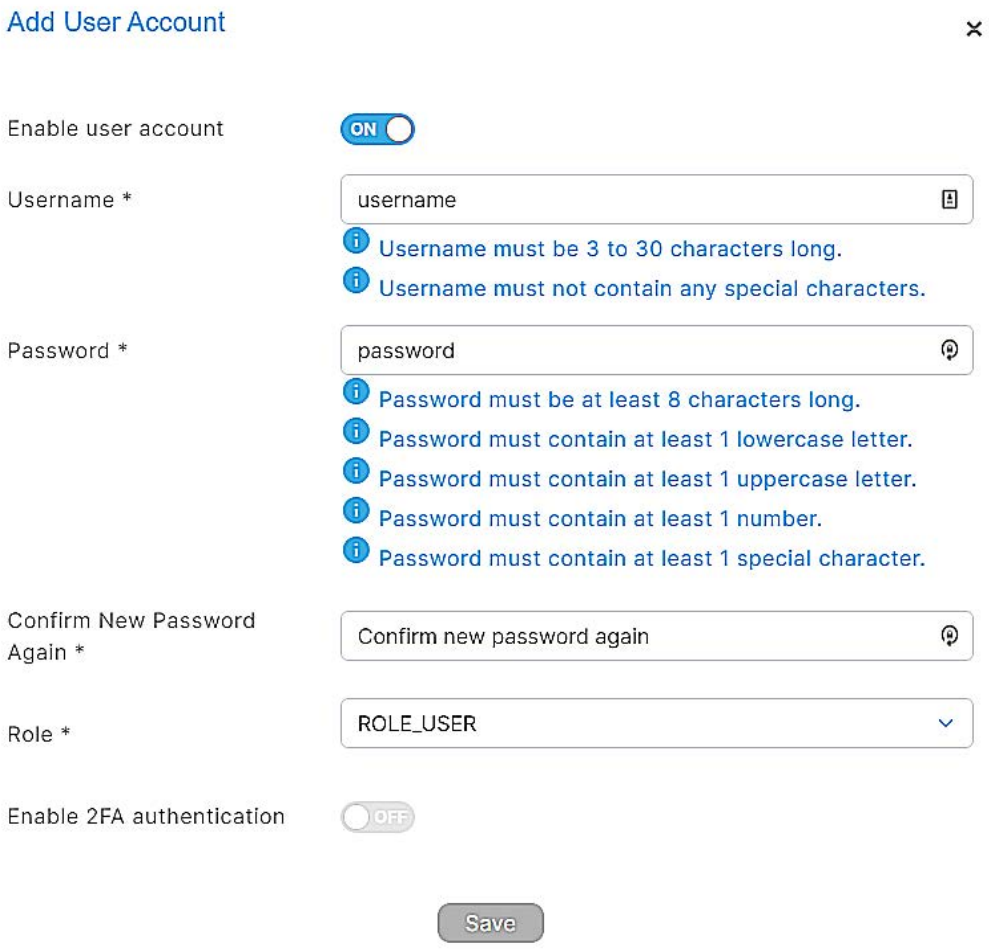
1. From the **Configuration** tab, click **Account Management**.
2. From the **Account Management** page, click the **User Account** tab. The list of existing users and their details is displayed.



8.2. Creating a user account

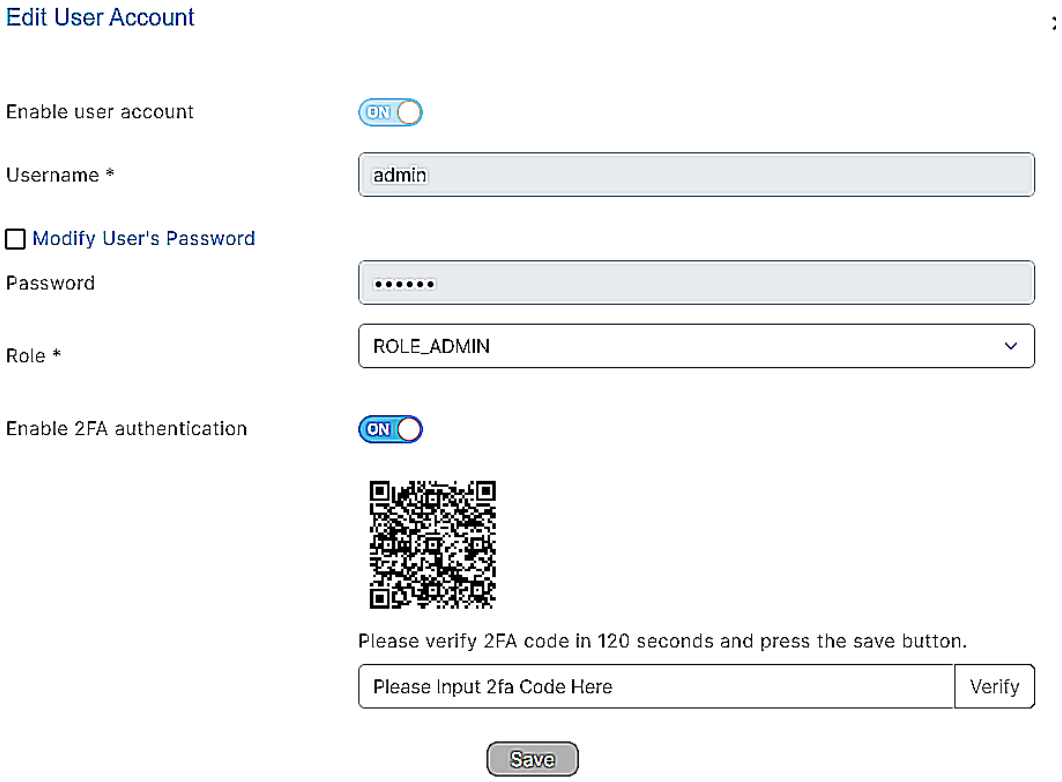
See Appendix A. Logging in with the 2FA authentication

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.



8.3. Editing a user account

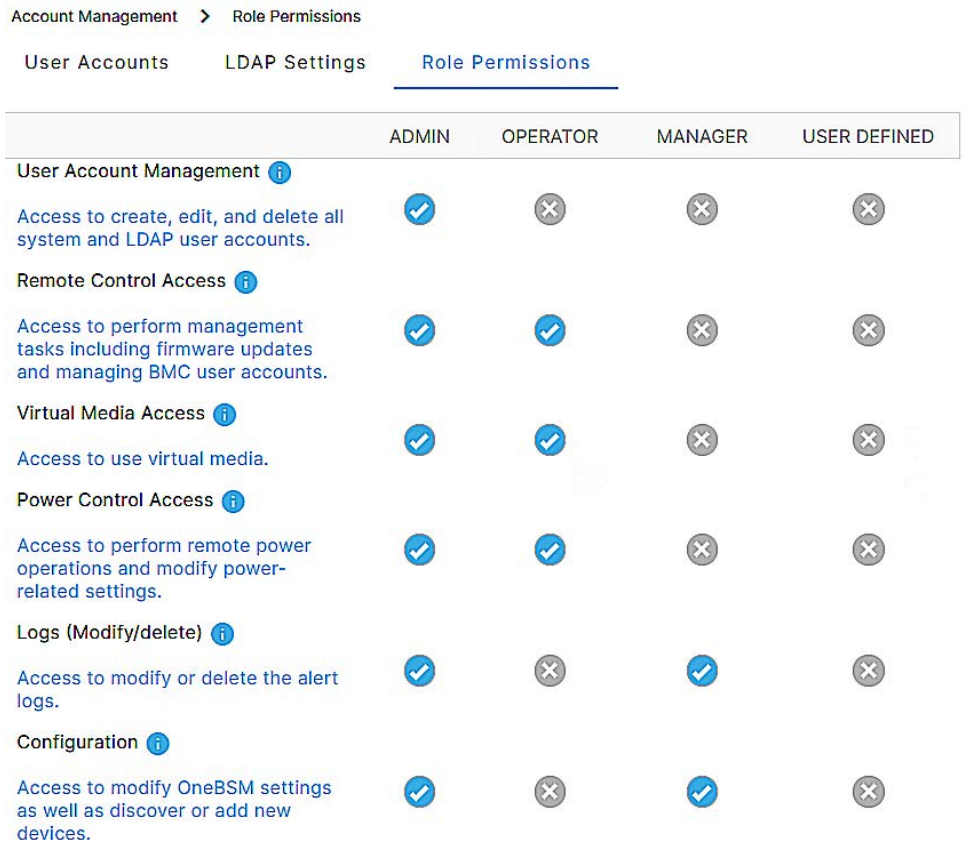
1. From the **Configuration** tab, click **Account Management**.
2. From the **Account Management** page, click the **User Account** tab.
3. From the **User Account** page, click the **Edit** button next to the user account to be modified.
4. Change the user account details, as required.
5. Click **Save**.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



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.



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

8.5. Configuring and backing up the OneBSM database

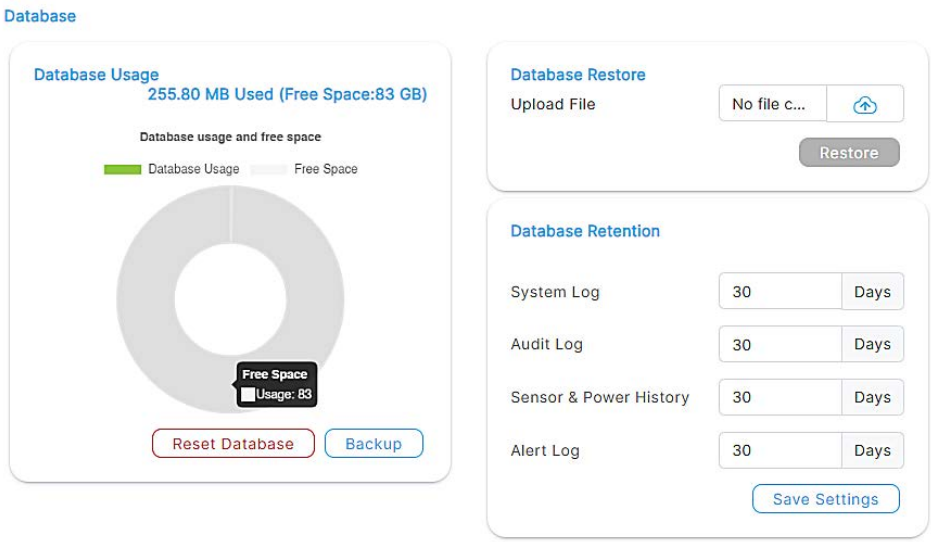
The **Database Usage** page displays details about the OneBSM database, including database usage statistics, maintenance options, and data retention intervals.

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

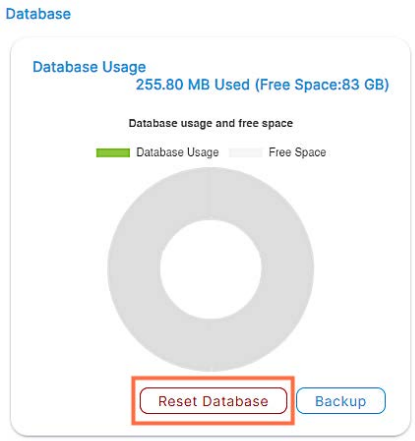
1. From the **Configuration** tab, click **Database**.
2. From the **Database Usage** page, modify the maintenance and log settings, as required.
3. Click **Save Settings.**



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.

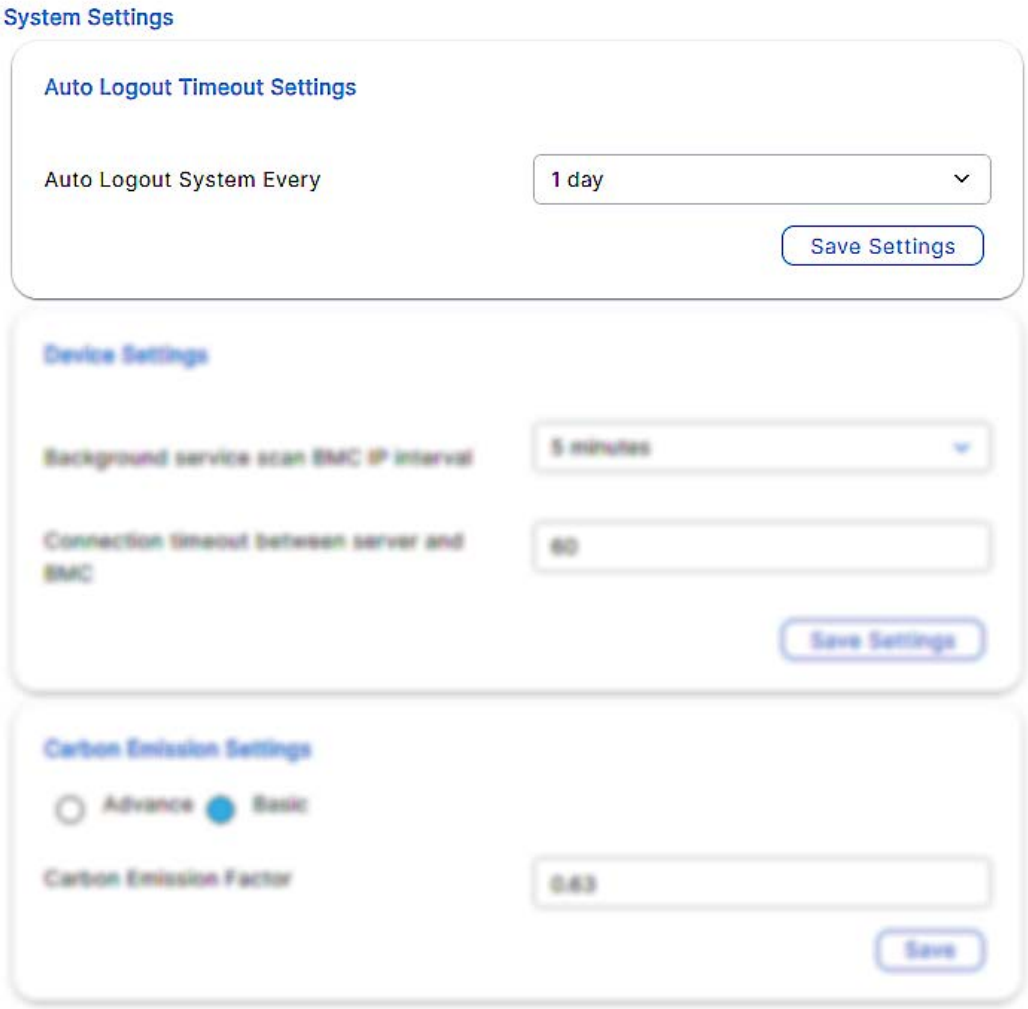
See 1.2. Connecting to the OneBSM console for the first time

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.



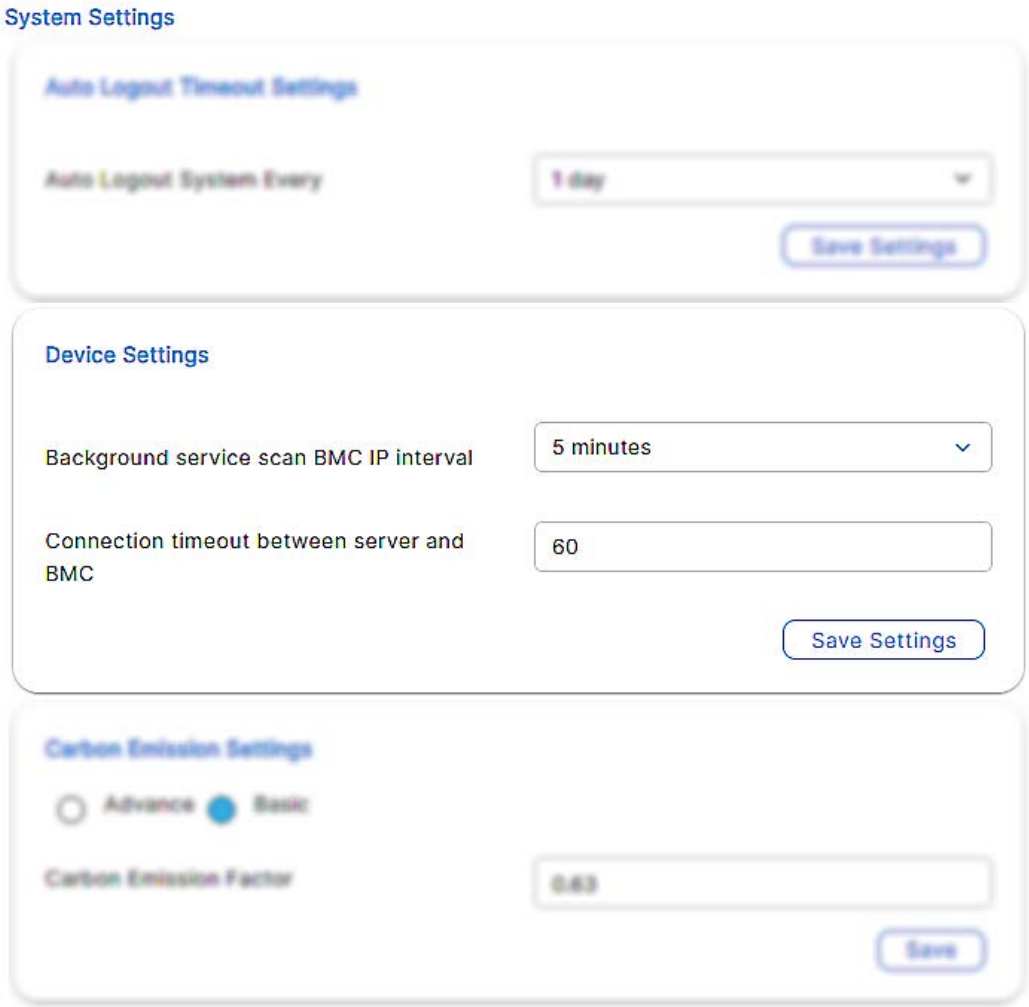
3. Click **Save Settings**.

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.



3. Click **Save Settings**.

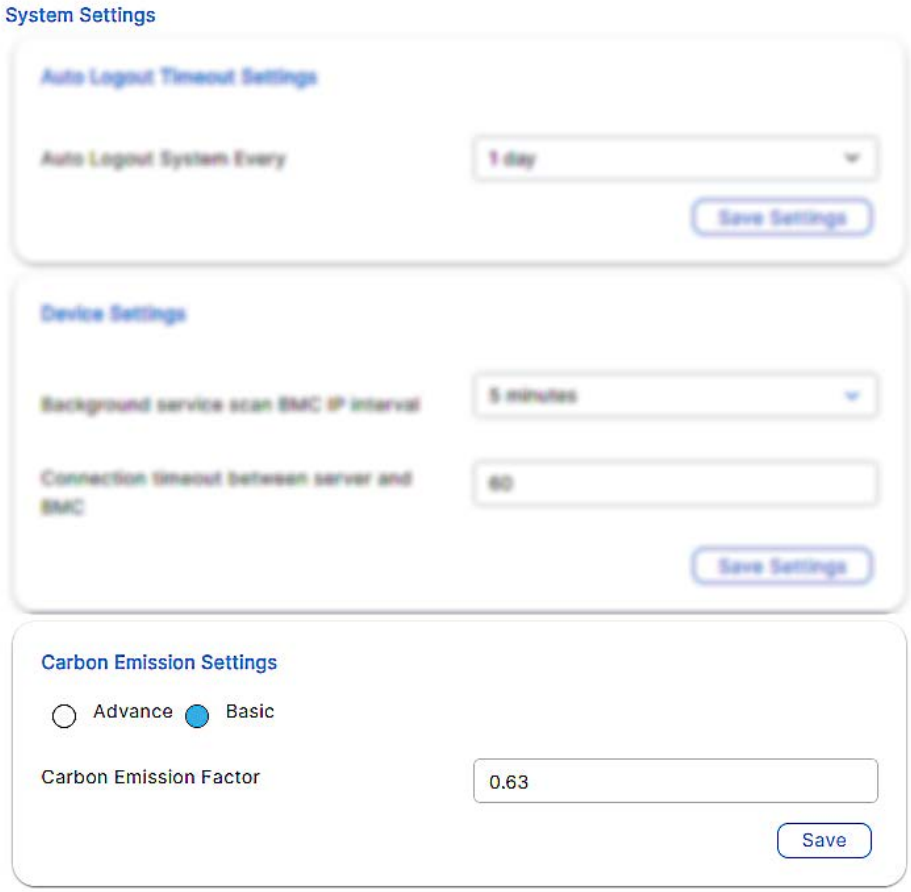
8.7.3. Modifying carbon emission viewing settings

Two modes are available for viewing and editing carbon emissions.

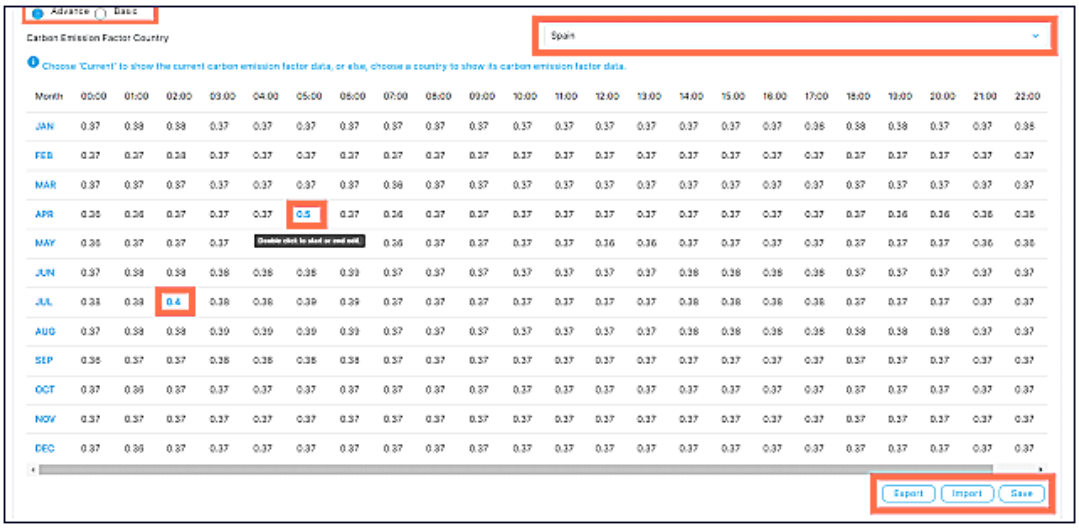
- **Basic mode** : only a single factor value can be entered, which will be applied to all timestamps in the carbon emission factor table.
- **Advance mode** : it is possible to view and edit the carbon emission factor table with hourly and monthly data.

Procedure

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



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:

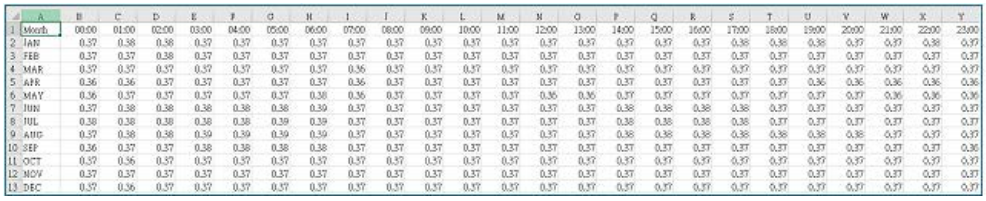


i. Update the table with factor data

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.



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.

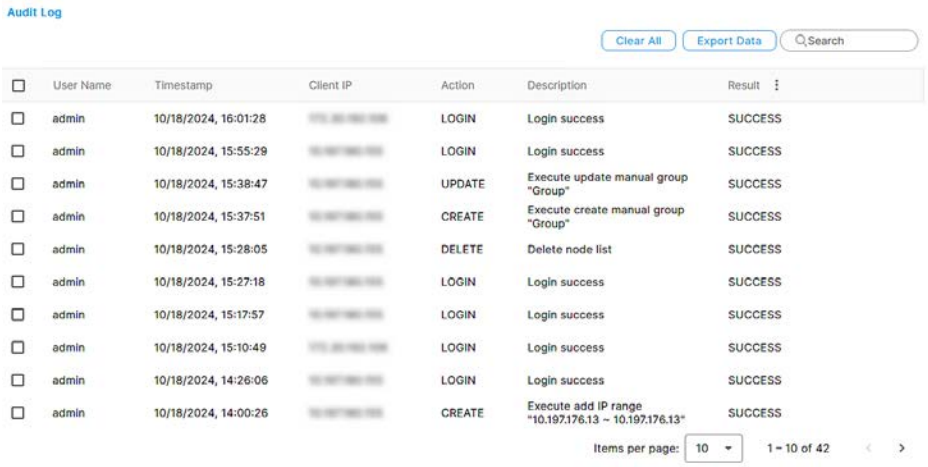
Chapter 9. Managing OneBSM

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.

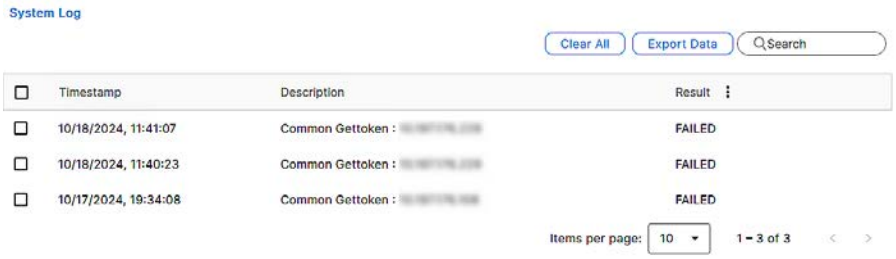


9.2. Viewing OneBSM system logs

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.



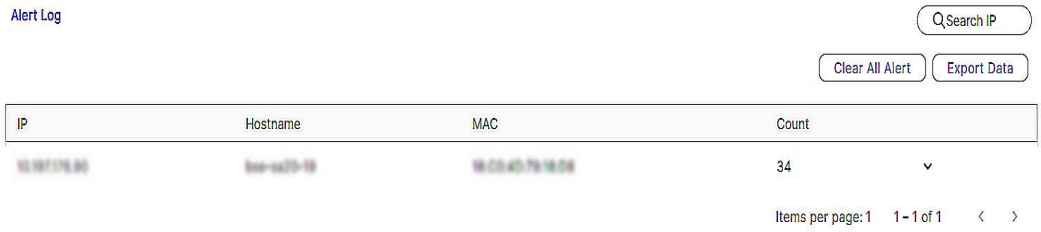
9.3. Viewing OneBSM alert logs

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.



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.

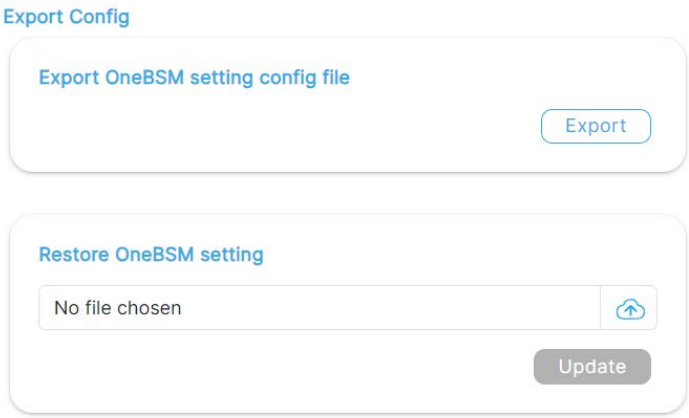
9.5. Exporting the OneBSM configuration settings

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.



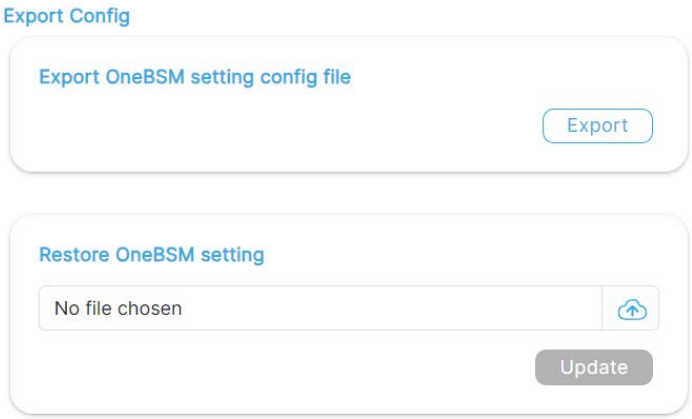
9.6. Restoring OneBSM configuration settings

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.

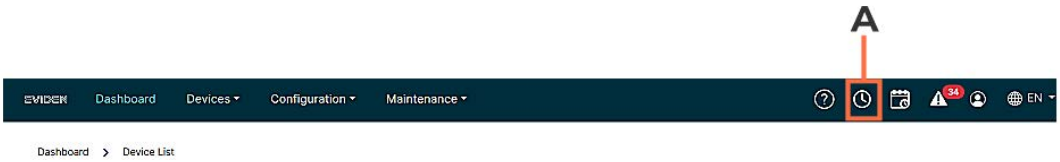
1. From the **Maintenance** tab, click **Export Config**.
2. From the **Export Config** window, select the restore .JSON file.
3. Click **Update** to restore the OneBSM setting config file.
4. Wait 3 to 5 seconds for the settings file to update.



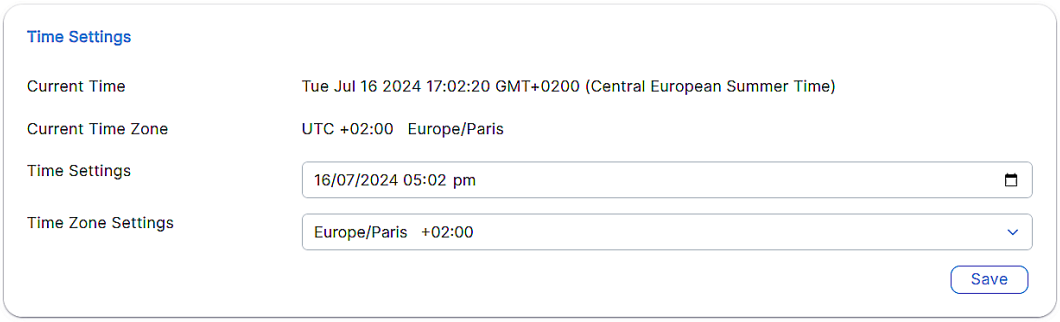
9.7. Setting the system time and timezone for OneBSM

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).

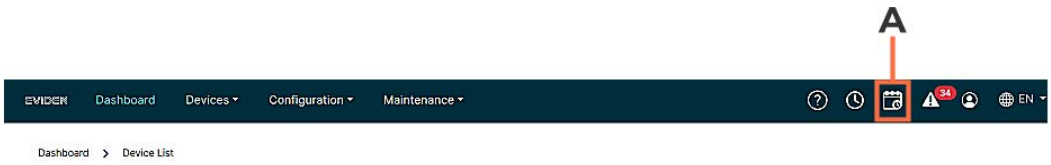


2. From the **Time** window, change the time and timezone, as required,
3. Click **Save.**



9.8. Viewing scheduled tasks

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

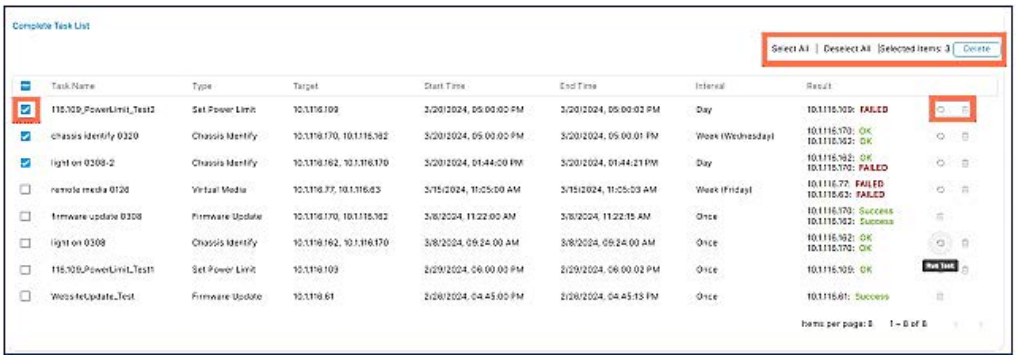


The Scheduled Tasks windows displays tasks according to one of three statuses:

- 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 **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.



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

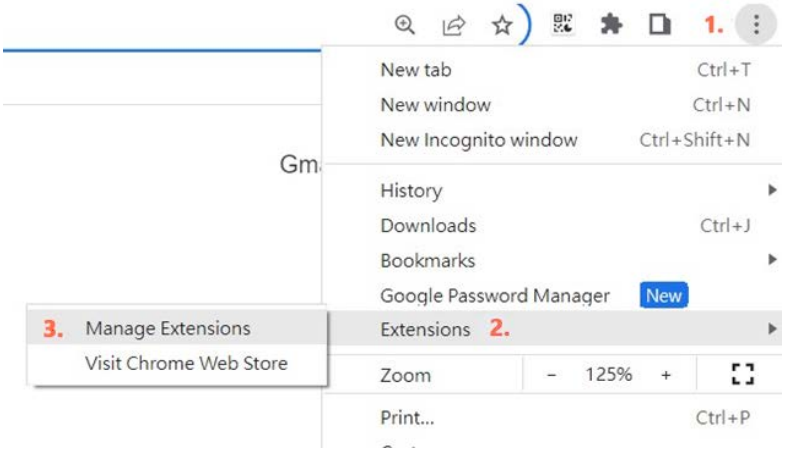
Appendix A. Logging in with the 2FA authentication

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

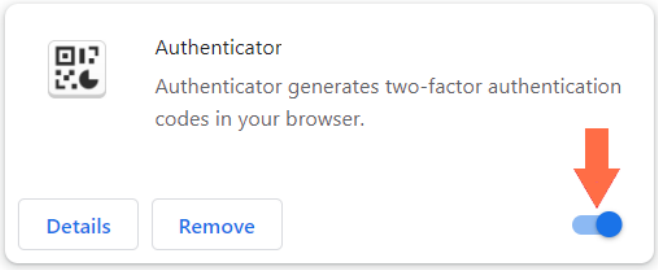
A.1. Installing the authenticator app

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.



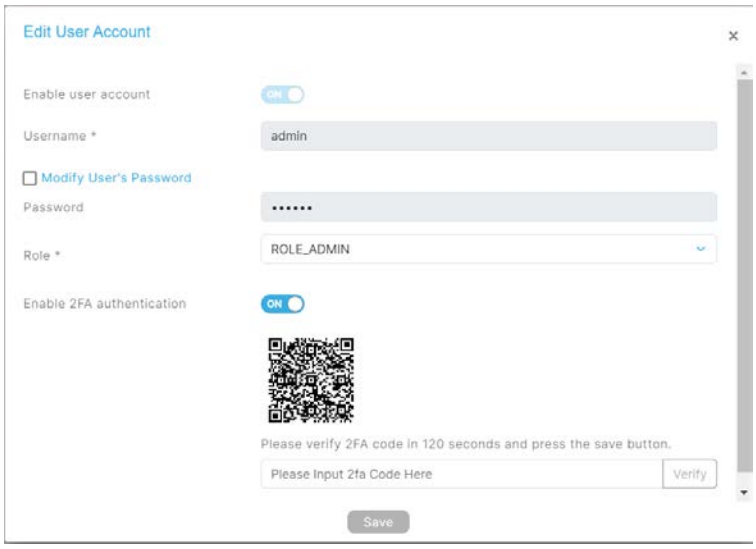
4. Enable the authenticator app. The app will be pinned on the toolbar after enabling.



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.



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