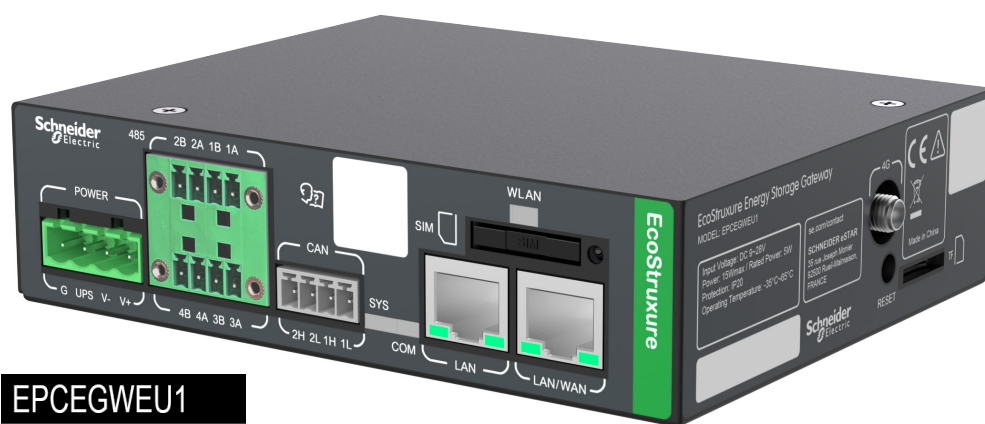
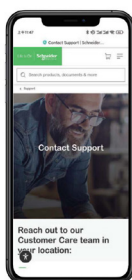




EPCEGWU1

Customer Care Center



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Legal Information

The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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Information About Your System

As soon as you open your product, inspect the contents and record the following information and be sure to keep your proof of purchase. If any damage is found, contact customer support.

Serial Number: _____ Purchased From: _____

Product Number: _____ Purchase Date: _____

Document Number: D4085144 Date: April 2026

Revision: V1.0

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

Validity Note

This document is valid only for the Schneider EcoStruxure Energy Storage Gateway(CR: EPCEGWU1).

If this manual is in any language other than English, although steps have been taken to maintain the accuracy of the translation, the accuracy cannot be guaranteed. Approved content is contained with the English language version which is posted at <https://www.se.com/>.

The characteristics of the products described in this document are intended to match the characteristics that are available on <https://www.se.com/>. As a part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on <https://www.se.com/>, consider <https://www.se.com/> to contain the latest information.

Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

About Scope

This document provides a comprehensive guide for the EcoStruxure Energy Storage Gateway software version V3.7.x. It covers legal information, system setup, page structure, communication topologies, real - time data monitoring, and various system settings. The associated manuals for system commissioning are as follows.

No.	Manual Name	Applicable Product & CR
1	Schneider Boost Pro Installation and User Guide	Schneider Boost Pro : BAT215KPCS100K3EU1 BAT215KPCS100K3EU2 EcoStruxure Energy Asset Controller : EPCEACEU1 EcoStruxure Energy Asset Controller Accessory Kit : EPCEACACEU1 EcoStruxure Energy Storage Gateway : EPCEGWEU1
2	Schneider Boost Pro Maintenance Guide	
3	EcoStruxure Energy Asset Controller User Guide	
4	EcoStruxure Energy Asset Controller Commissioning Guide	
5	EcoStruxure Energy Storage Gateway User Guide	
6	EcoStruxure Energy Storage Gateway Commissioning Guide	

Terms and Abbreviations

Abbreviation	Full Name	Description
EVSE	Electric Vehicle Supply Equipment	Equipment for charging electric vehicles.
PVI	Photovoltaic Inverter	A Photovoltaic Inverter is a crucial device in a solar power generation system. Its main function is to convert the direct current (DC) generated by solar panels into alternating current (AC) that can be fed into the power grid or used by loads.
BESS	Battery Energy Storage System	A component in the Storage-EVSE-Solar system and used to store electrical energy. Its functions include integrating distributed power sources (such as photovoltaic and wind turbines) and loads, supporting the independent operation or grid - connected mode of the Storage-EVSE-Solar system, and achieving energy self - sufficiency and local intelligent regulation. In this manual, BESS specifically refers to Boost pro.
DHCP	Dynamic Host Configuration Protocol	Protocol for automatically assigning IP addresses to devices
LAN	Local Area Network	Method for connecting multiple devices in a logical network used for sharing data and resources
WAN	Wide Area Network	Method of connecting multiple LANs together for the purposes of sharing data and resources
SLMS	Static Load Management System	Static Load Management System
DLMS	Dynamic Load Management System	Dynamic Load Management System

Before using EcoStruxure Energy Storage Gateway ethernet network for configuration, please make the following preparations.

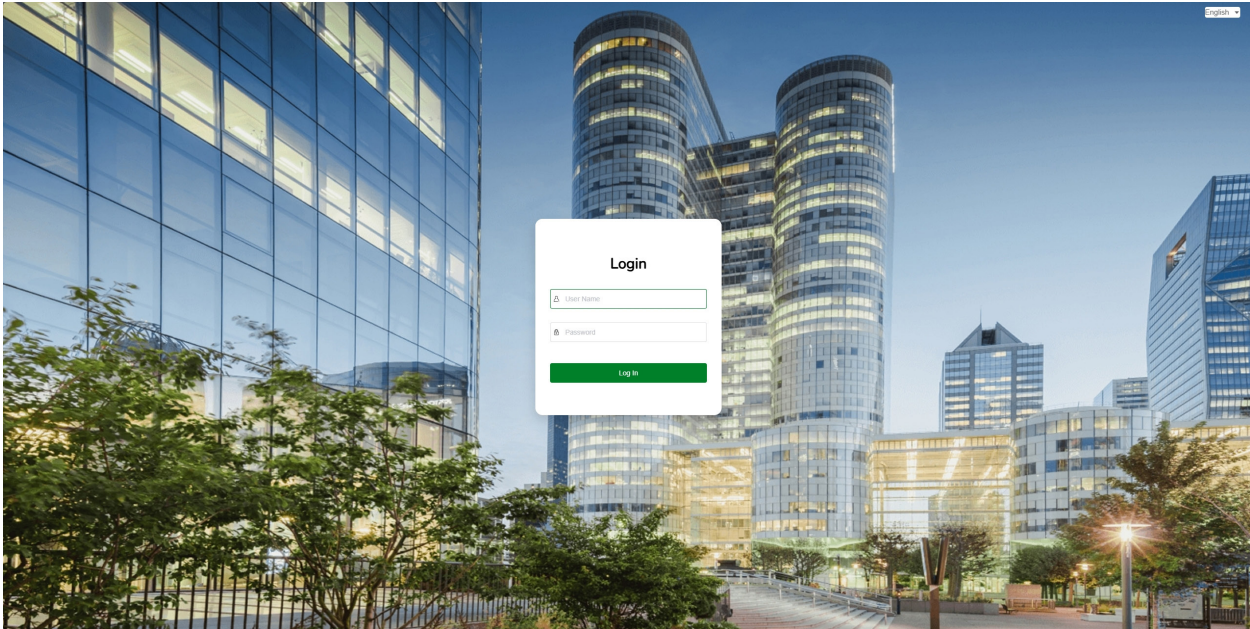
- Connect to the LAN port or LAN/WAN port of the gateway using an Ethernet cable.
- Computer network parameter configuration
 - If you connect to the LAN port of the gateway, configure the computer network port as follows:
 - A. IPV4:192.168.1.100
 - B. Gateway: 192.168.1.1
 - C. Subnet Mask: 255.255.255.0
 - If you connect to the LAN/WAN port of the gateway, configure the computer network port as follows:
 - A. IPV4:192.168.2.100
 - B. Gateway: 192.168.2.1
 - C. Subnet Mask: 255.255.255.0
- If you use the LAN/WAN interface, open your computer browser and enter [192.168.2.136] in the address bar.
- If you use the LAN interface, open your computer browser and enter [192.168.1.136] in the address bar.
- Enter the username and password. The initial username is Admin, and the initial password is 1234.

NOTICE

RISK OF ACCOUNT LOCKOUT OR LOGIN FAILURE

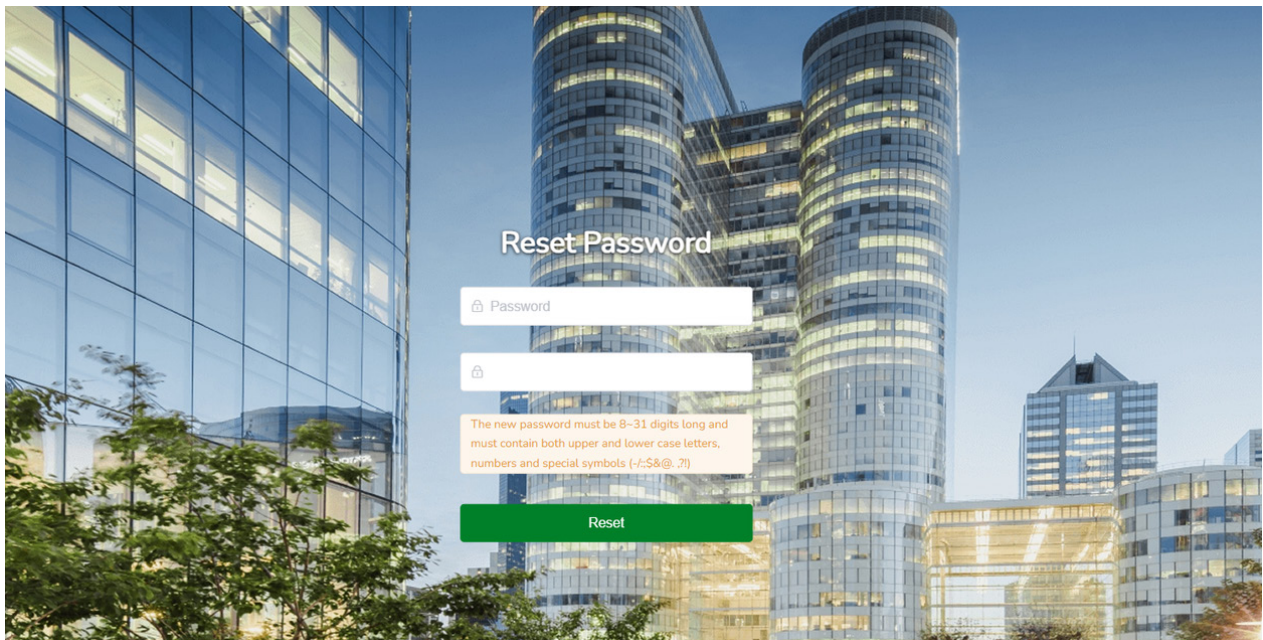
- Ensure correct password entry, including case-sensitive, no types or extra spaces.
- Pause and verify credentials if unsure; avoid rapid consecutive attempts.
- Store passwords securely to prevent accidental errors.
- Only 3 attempts are allowed. Exceeding 3 attempts will lock the Ethernet network page for 3600 seconds.
- The reset password must be 8 to 31 characters long and must include uppercase letters, lowercase letters, numbers, and special characters (-/;,\$&@.,?).

Failure to follow these instructions can result in system malfunction.



- Change Password

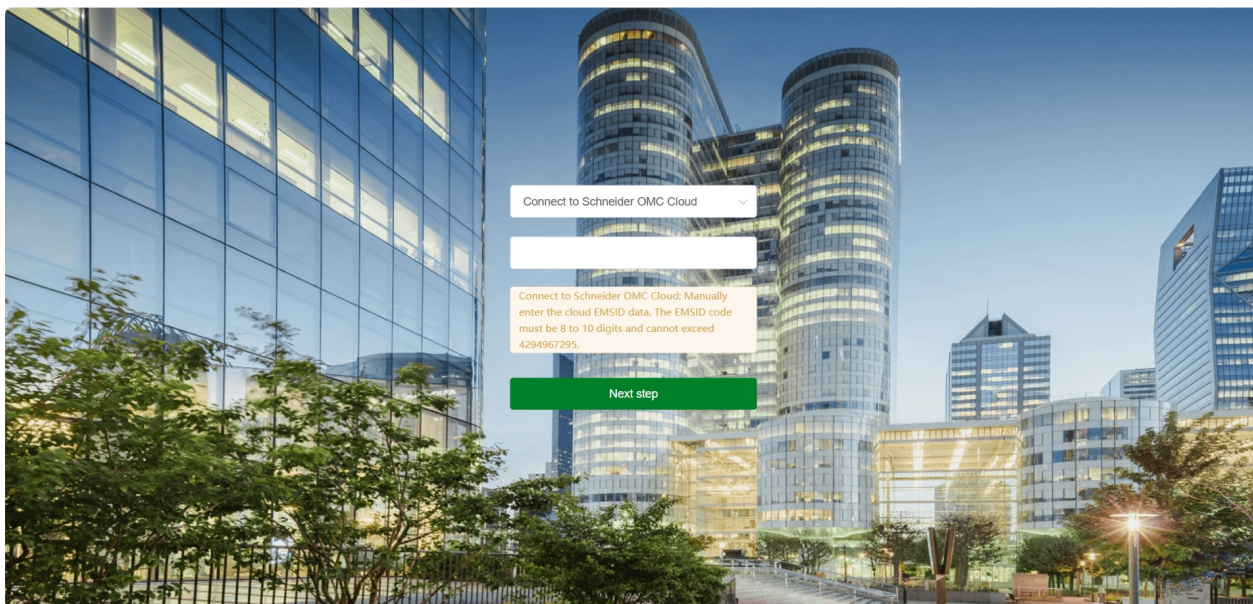
After the first login, you will immediately enter the password modification interface. Please modify your password.



- Working Mode Selection:(There are two modes to choose from)

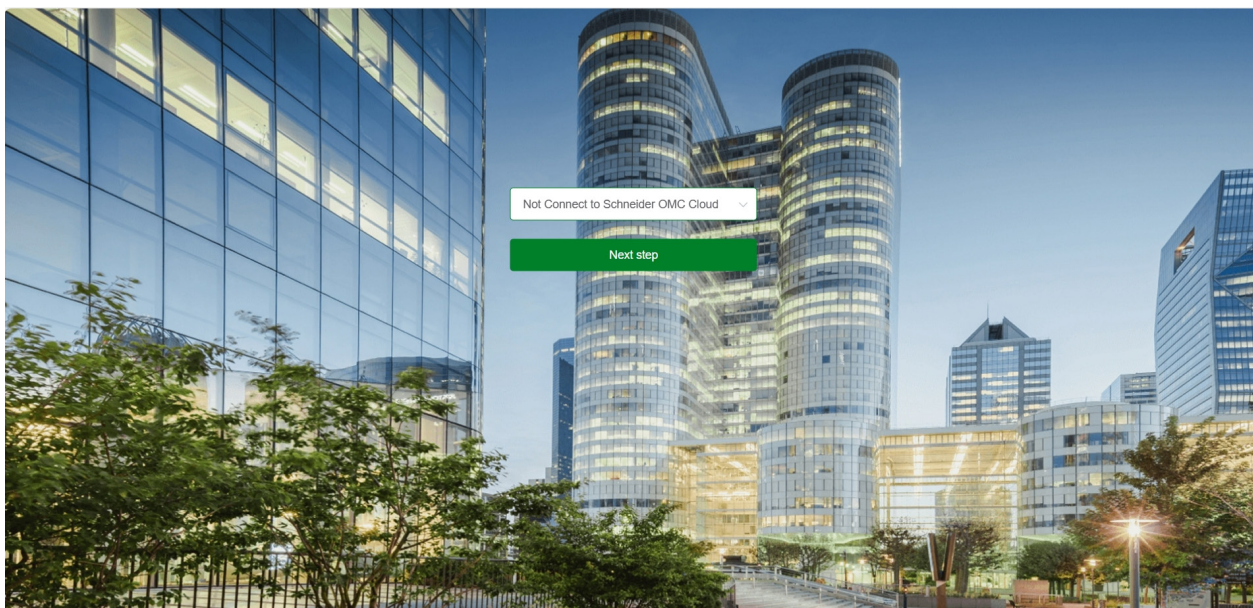
- a. Connect to Schneider OMC Cloud.

- you need to enter the EMSID, which can be obtained from the cloud and is an 8- to 10-digit number. Then click Next.



- b. Not Connect to Schneider OMC Cloud.

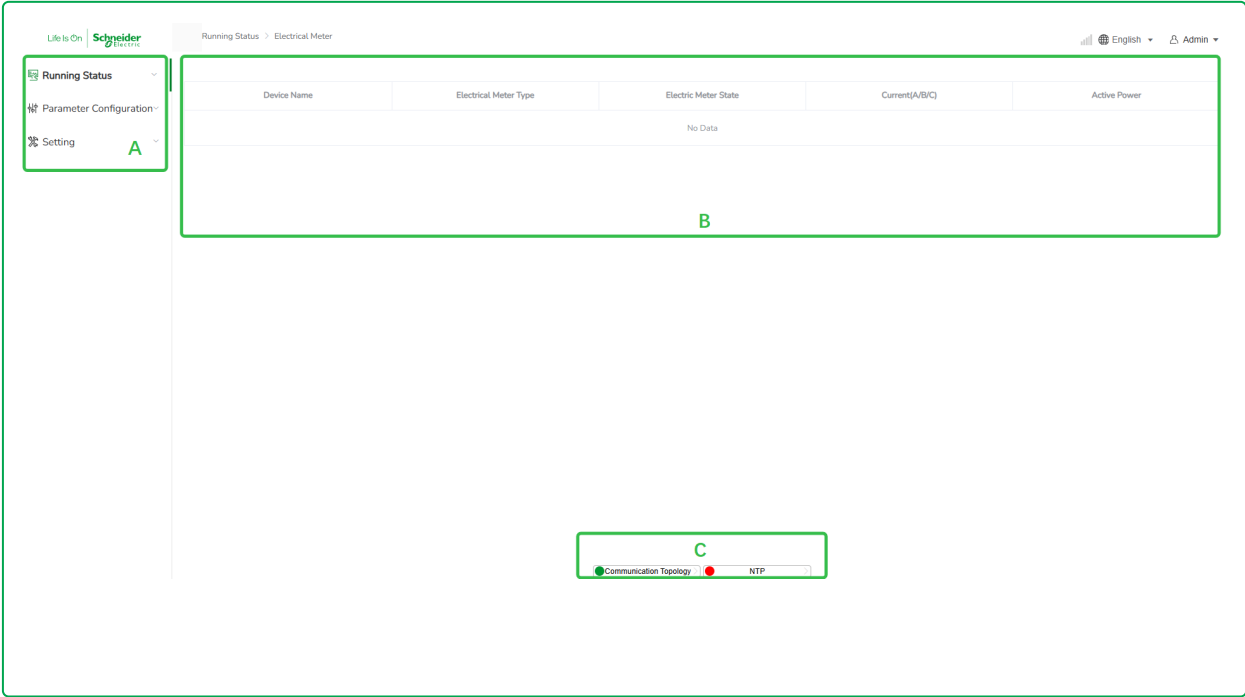
- you can directly click Next.



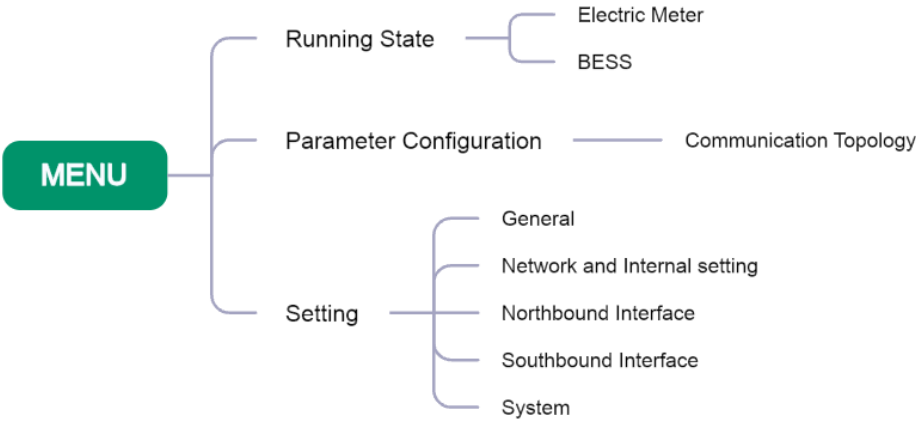
- At this time, the gateway will restart. Wait approximately two minutes. The blinking of EcoStruxure Energy Storage Gateway indicator light indicates that the restart is complete. After the restart, it will jump to the login page. Enter your account and password to log in.

2 Page Structure

The Local Ethernet networkpages of EcoStruxure Energy Asset Controller are mainly divided into three parts, as shown in the figure below:



A. The menu structure is as follow:



B. The content section will display different content based on the menu selected by the customer.

C. Status Bar, which displays the current status of EcoStruxure Energy Storage Gateway in real time. Clicking on the Status Bar enables the access to the corresponding page.

3.1 Overview

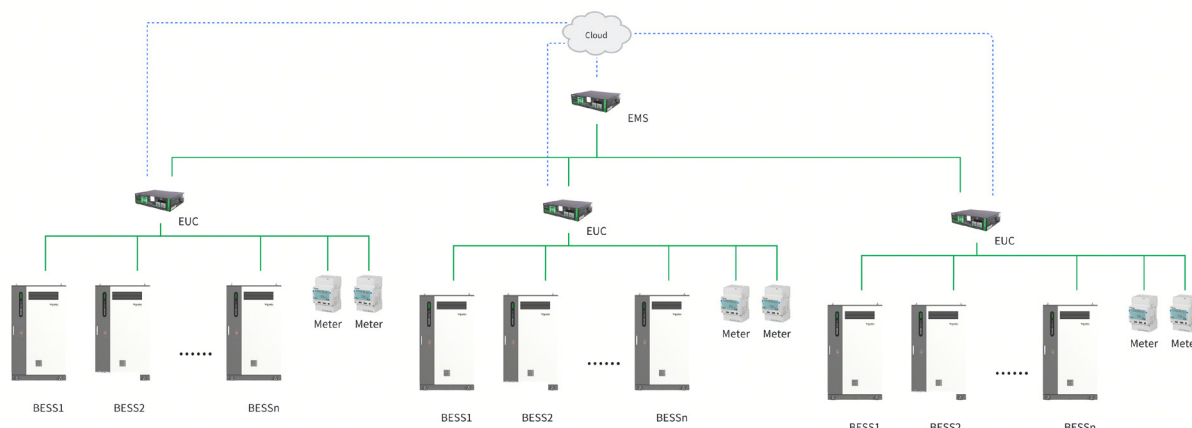
Communication topology is the cornerstone of the entire system and has the following two key functions:

- Identify the devices present within the system and define their names, electrical parameters, etc.
- Define the communication methods of these devices, covering physical interfaces, communication protocols, protocol addresses, etc.

3.2 Working Mode

EcoStruxure Energy Storage Gateway only supports EUC mode:

- a. EUC (Energy Unit Controller) Mode, where EcoStruxure Energy Storage Gateway is a sub-device of the superior EMS. As a unit controller, EcoStruxure Energy Storage Gateway can only be connected to BESS and electricity meters. The block diagram is as follows:



- The EUC mainly undertakes the following four functions:

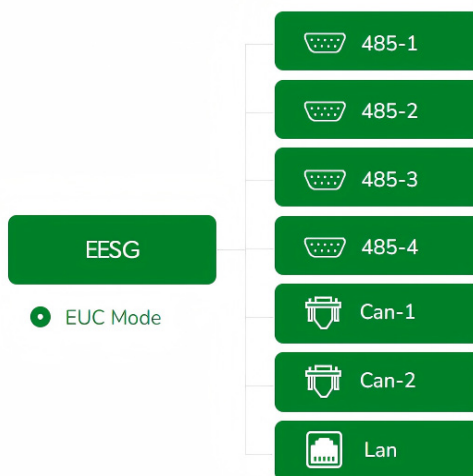
- Receives commands from the superior EMS device, decomposes them, and sends them to each BESS unit.
- Read a portion of the BESS data (such as active power, etc.), fit the data, and then send it to the superior EMS. At this time, the EUC will virtualize all the BESS it controls into a single independent BESS.
- Read other data from BESS (such as cell voltage and current, etc.), and send the data to the Cloud Computing Platform.
- Read electricity meter data and send it to the superior EMS.

3.3 Add Device

- Select "Parameter Configuration" → "Communication Topology" to enter the communication topology settings page. EcoStruxure Energy Storage Gateway provides three types of interfaces for southbound devices, including:

- Four RS485 ports
- Two CAN ports
- One network port (LAN)

- Another network port (LAN/WAN) cannot be connected to southbound devices and is only used for connecting to the public network or the host computer.

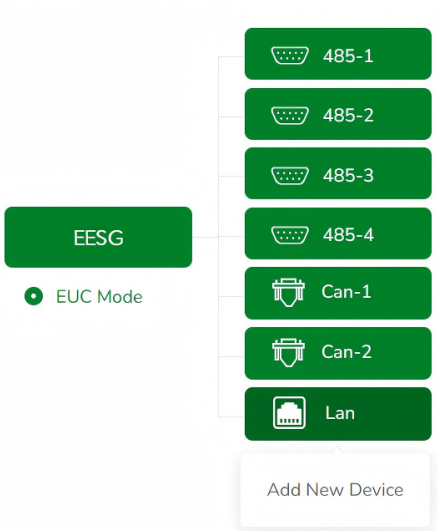


- Devices with different communication interfaces are connected to the corresponding interfaces of EcoStruxure Energy Storage Gateway. For example, a charger with an Ethernet interface is connected to the LAN port; an electricity meter with an RS485 interface is connected to the RS485 port.
- If you need to add a device, you can click the left mouse button on the corresponding label. Then click "Add Device", select the device type, enter the parameters, and finally click "OK".

3.3 Add Device

3.3.1 Add Boost Pro

A. Under the LAN port, click Add Device.



B. Select the device type.

Add New Device Type ×

Device Type

BESS

▼

Cancel

Next step

C. Enter the parameters, and click Next after completion.

Add BESS ×

Manufacturer/Model

Schneider / Schneider... ▼

Name

BESS3 ⓘ

IP Address

192.168.1. 1

Rated Power(kW)

100

Timeout Period(ms)

2000

Modbus/TCP Encryption

☒

Total battery capacity (kWh)

215

Cancel

OK

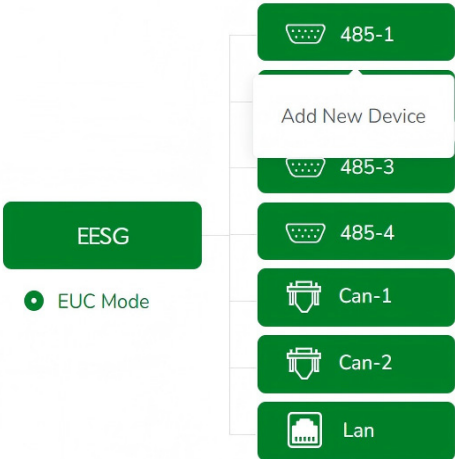
3.3 Add Device

The descriptions of each parameter of the BESS device are as shown in the following table.

Parameter Name	Description
Manufacturer/Model	Manufacturer and model of this device.
Name	User-defined, the name of each device within the same station needs to be unique.
IP Address	- If the device is connected to the LAN port: - The communication address of the device is usually set to the last digit of the dotted IP address. For example, if the device's IP address is [192.168.1.nnn], then when adding the device, its communication address is filled in as nnn. The value range of nnn is between 1 and 255, excluding 136 and 255. - For obtaining the Boost Pro's IP Address, please locate it on its HMI. - Only after switching its working mode from "local mode" to "remote mode" via the Boost Pro's HMI can the EESG establish a communication connection with it. [192.168.1.136] is the default IP Address for the EcoStruxure Energy Storage Gateway LAN port. Users can configure it according to the actual on-site situation. For the configuration method, please refer to the description in Chapter 10 Network Configuration.
Rated power(kW)	Rated power of BESS equipment
Exceeded Time (ms)	Default is 2000 milliseconds. If no response is received within 2000 milliseconds after EcoStruxure Energy Storage Gateway accesses the device, a communication timeout is determined. If 4 consecutive communication timeouts occur, this device is determined to be abnormal (the device status can be seen in Running State).
Modbus TCP Encryption	Set whether to use encrypted communication between this device and EcoStruxure Energy Storage Gateway.

3.3.2 Add Electric Meter

A. Click on the RS485 interface, select "Add New Device".



B. Select the Gateway Electric meter or Load meter based on the actual situation. The Gateway Electric meter monitors the electricity consumption of the entire station, and its data is a key parameter for EcoStruxure Energy Asset Controller to perform power control. The Load meter is used to record the electricity consumption of the load, and its data does not participate in power control.

Add New Device Type

Device Type

Load Meter

Cancel

Next step

3.3 Add Device

3.3.2 Add Electric Meter

C. Enter the parameters, and click "OK" after completion.

Add Load Electric Meter

Manufacturer/Model

Select

Name

Slave Address

Rated Capacity(kVA)

Current Ratio

1

Voltage Ratio

1

Timeout Period(ms)

2000

Cancel

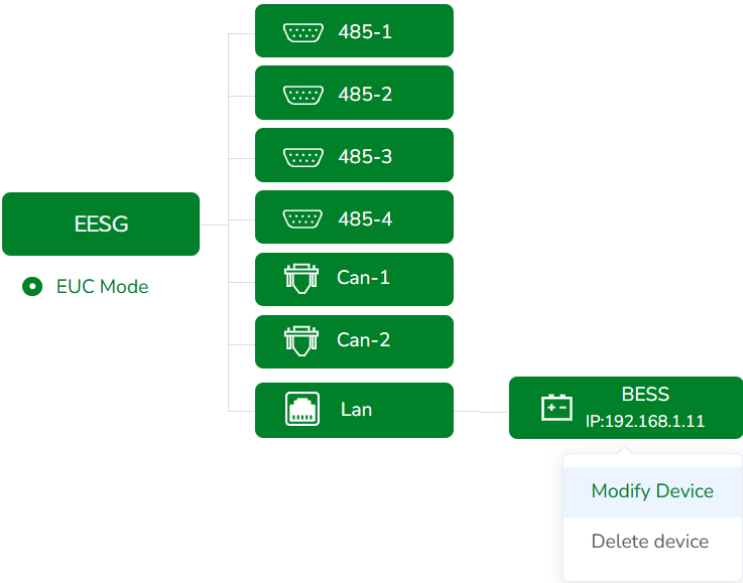
OK

The descriptions of each parameter of Electric Meter are as shown in the following table.

Parameter Name	Gateway Electricity Meter	Load Electricity Meter
Manufacturer/Model	Manufacturer and model of this device.	
Name	User-defined, the name of each device within the same station needs to be unique.	
Slave Address	If the device is connected to a RS485 port, its slave address ranges from 1 to 254. Devices connected to the same 485 port need to have different slave addresses.	
Rated Capacity (kVA)	Rated capacity given by the superior transformer or superior power supply unit	The maximum power value of all loads under this electricity meter.
Current Ratio	The current transformation ratio of the electricity meter is configured according to the actual current transformer CT used on site. If the CT transformation ratio is 600/5, then the current transformation ratio is filled in as 120.	
Voltage Ratio	Voltage transformation ratio of the electricity meter. • Configure according to the actual voltage transformer PT configuration on site. If the PT transformation ratio is 10kV/100V, then the voltage transformation ratio is filled in as 100. • If PT is not used, fill in 1 here, or refer to the meter specification.	
Timeout Period(ms)	Default is 2000 milliseconds. If no response is received within 2000 milliseconds after EcoStruxure Energy Storage Gateway accesses the device, a communication timeout is determined. If 4 consecutive communication timeouts occur, this device is determined to be abnormal (the device status can be seen in Running State).	

3.4 Modify Device

A. Left click on the corresponding device and select Modify Device.



3.4 Modify Device

- B. Modify the corresponding parameters, and click OK after completion.
- C. Click Save, this change will take effect after restarting.

 English ▾

 Admin ▾

 Configuration Export

 Configuration Import

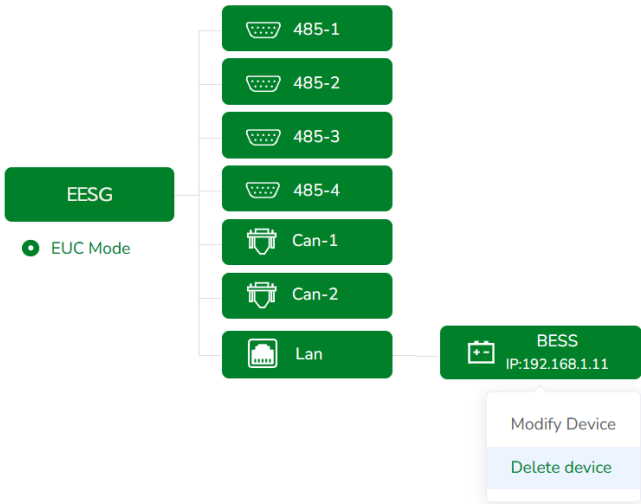
 Save

3.5 Delete Device

NOTICE

RISK OF CONFIGURATION LOSS
After each modification to the topology diagram, you must click the "Save" button for the configuration to take effect.
Failure to follow these instructions can result in system malfunction.

- A. Left click on the corresponding device and select Delete device.



- B. Click OK.

Tips

 Are you sure you want to delete BESS?

Cancel

Delete

- C. Click Save, it will take effect after restarting.

 English ▾

 Admin ▾

 Configuration Export

 Configuration Import

 Save

3.6 Configuration File Operations

- After the communication topology configuration is completed, a configuration file will be generated, which covers all communication topology information. The configuration file supports import and export operations.

A. Export

Click "Export Configuration" , and the configuration file will be automatically downloaded.

 English ▾

 Admin ▾

 Configuration Export

 Configuration Import

 Save

B. Import

Click "Configuration Import" , select the configuration file, and the file will be automatically imported. After importing the file, please click "Save" and restart to enable the new configuration file.

The real-time data on the page is updated once every 3 seconds.

4.1 Real-time data of Electric Meter

- Select "Running state" → "Electric Meter", and the page will be as shown below.

Device Name	Electrical Meter Type	Electric Meter State	Current(A/B/C)	Active Power
1# Load Meter	Load Meter	Off-line	0/0/0 A	0kW
2# Load Meter	Load Meter	Off-line	0/0/0 A	0kW
3# Load Meter	Load Meter	Off-line	0/0/0 A	0kW

- The description of the real-time data of the electricity meter is as follows.

Parameter Name	Description
Device Name	The name of the meter device configured in the communication topology.
Electric Meter Type	The type of electricity meter configured in the communication topology.
Device Status	Meter Status.
Current	Phase A, B, C currents
Active Power	Real-time active power, ↑: represents power fed into the grid, ↓: represents power drawn from the grid

4.2 Real-time data of BESS

- Select "Running state" → "BESS", and the page will be as shown below.

Device Name	Device Status	SOC	Power	Power Setting	Min/Max Temperature	Calibration Status
BESS	Off-line	0%	0kW	Idle/0kW	0/0°C	

- The description of real-time BESS data is as follows.

Parameter Name	Description
Device Name	BESS name configured in the communication topology
Device Status	Current State of BESS
SOC	Actual SOC value of BESS
Power	Actual power of BESS
Power Setting	Control mode (idle/charge/discharge, etc.) and power sent by EcoStruxure Energy Asset Controller to BESS
Min/Max Temperature	Minimum/Maximum Temperature of Battery Cluster
Calibration status	There are 7 calibration statuses of SOC, namely blank, Calibrating, Success, Schneider Boost Pro Offlin, Fault failed, Long term unfinished, and Calibration exit (incomplete).

- Select "Settings" → "General" to enter the general settings. There are five setting items: Date and Time, Historical Data, EcoStruxure Energy Storage Gateway Local Log, Information Security, and Whole Machine Configuration, as shown in the following figure:

Date and time

Time Zone

Select Time Zone

Europe / Paris

System Time

Current time: 2026-04-23 09:22:01

Historical Data

Historical Data Storage

Storage Interval(seconds): Estimated Max Storage Period(days):

Historical Data Export

Export Historical Data

EESG Local Logs

EESG Logs

EESG Local Log Files

Information Security

SSH protocol

Enable SSH protocol Connection

User Password

Change User Password

Whole Machine Configuration

Whole Machine Configuration Export

Export EESG Whole Machine Configuration

Whole Machine Configuration Import

Import EESG Whole Machine Configuration

5.1 Date and Time

- a. Select the time zone, and choose the time zone according to the actual situation.

Date and time

Time Zone

Select Time Zone

Asia / Shanghai

System Time

Current time: 2025-07-24 17:20:26

Historical Data

Historical Data Storage

Device: Storage Interval(seconds): Estimated Max Storage Period(days):

Historical Data Export

Export Historical Data

- Arctic

>

Seoul
- Asia

>

✓ Shanghai
- Atlantic

>

Singapore
- Australia

>

Srednekolymsk
- Zulu

>

Taipei
- >

Tokyo

5.1 Date and Time

b. Set Time

EcoStruxure Energy Storage Gateway provides three ways to set the time: manually setting the time, automatic time synchronization via the network, and automatic time synchronization via Schneider OMC Cloud.

- When the source is selected as OMC, the date and time do not need to be manually set.

Setting > General

←

Date and time

Timing source:

Schneider OMC Cloud

Current time:

🕒 2025-08-16 14:12:16

Cancel

Save Configuration

- When the source is set to manual setting, the customer needs to set the time themselves.

Setting > General

←

Date and time

Timing source:

Manual Configuration

Current time:

🕒 2025-08-16 17:02:46

Cancel

Save Configuration

- When the source is set to Network Pair, the customer needs to set the server address and port number when configuring the network pair.

←

Date and time

Timing source:

Network Time Synchronization

NTP Server1:

time.gl.struxurewarecloud.com

NTP Server2:

pool.ntp.org

NTP Server3:

time.nist.gov

Cancel

Save Configuration

5.2 Historical Data

- Historical data is used to store the operating data of each device during the system operation. Currently, it supports electricity meters.

Historical Data

Historical Data Storage

Device:Storage Duration:

>

Historical Data Export

Export Historical Data

>

5.2 Historical Data

- Open the historical data save settings, as shown in the figure below:

←

Historical Data Storage

Device Type:

Electrical Meter

Device Name:

Select

Storage Interval(seconds):

Estimated Max Storage Period(days):

Cancel

Save Configuration

- Parameter descriptions are as follows:

Parameter Name	Description
Device Type	Supports electricity meters.
Device Name	Select the specific device name for which data needs to be recorded.
Storage Interval(second):	Device data storage interval. The shorter the interval, the more space it occupies.
Estimated Max Storage Period(days):	This parameter is automatically calculated by EcoStruxure Energy Storage Gateway, and it indicates the maximum storage duration based on the currently selected device type, quantity, and interval. If the storage space is full, circular overwrite will occur.

5.3 EcoStruxure Energy Storage Gateway Local Logs

- This is used to export EcoStruxure Energy Storage Gateway logs.
 - a. Click EcoStruxure EcoStruxure Energy Storage Gateway logs.

EESG Local Logs

EESG Logs

EESG Local Log Files

>

- b. Select the time to export logs.

Select Date

2026-04-16

Cancel

Export

- c. Click Export, and data will be automatically downloaded.

5.4 Information Security

- Information security has two components, namely SSH permission and user password.

Information Security

SSH

Enable SSH Connection

User Password

Change User Password

>

5.5 Whole Machine Configuration

- Whole Machine Configuration is used to Import or export all configuration information for EcoStruxure Energy Storage Gateway.

Whole Machine Configuration

Whole Machine Configuration Export

Export EESG Whole Machine Configuration

>

Whole Machine Configuration Import

Import EESG Whole Machine Configuration

>

- An export password must be set when performing a configuration export to protect data security.

Setting > General

<

Setting Export Password

Export Password

This password is used for encrypting and decrypting configuration files

Cancel

Export

- During configuration import, a password must be entered, which is the same password set during the export.

<

Setting Import Password

Import Password

This password is used for encrypting and decrypting configuration files

Cancel

Import

- Select "Settings" → "Network and Internet Settings". There are a total of three items that can be configured, namely 4G, WAN, and LAN.

Setting > Network and Internet settings

Network and Internet settings

4G
 APN: Username: >

WAN
 ip: mask: >

LAN
 ip: mask: >

6.1 Setting 4G

- Select "Settings" → "Network and Internet Settings" → "4G".

APN:

User Name:

Password:

Cancel

Save Configuration

- Parameter descriptions are as follows:

Parameter Name	Description
APN	Access Point Name (APN), a key parameter in 4G mobile networks, is used for configuring data connections between end point devices and carrier networks, determining how devices access the Internet or private networks.
User Name	Enter your username.
Password	Enter your password.

6.2 Setting WAN

- Select "Settings" → "Network and Internet Settings" → "WAN". Customers configure the WAN port of EcoStruxure Energy Storage Gateway through this page. The IP Address of the WAN port can be obtained automatically or configured manually.

WAN

TCP/IPv4 address configuration

☐ Automatically obtain IP address
 ☒ Use the following IP address

IP address:

Subnet Mask:

Default Gateway:

DNS Server Address Configuration

☐ Obtain DNS Server Address Automatically
 ☒ Use the following DNS server addresses

Preferred DNS Server:

Alternate DNS Server:

Cancel

Save Configuration

6.2 Setting WAN

- a. Automatically Obtain IP Address: EcoStruxure Energy Storage Gateway will use the DHCP (Dynamic Host Configuration Protocol) to automatically obtain an IP Address.
- b. Manually Enter IP Address: Manually enter the IP Address, Subnet Mask, and Default Gateway.
- c. Automatically Obtain DNS Server: EcoStruxure Energy Storage Gateway uses the DHCP protocol to automatically obtain the DNS server.
- d. Use the following DNS servers: Manually enter the IP addresses of the preferred DNS server and the alternate DNS server.

6.3 Setting LAN

NOTICE

LAN ADDRESS CONFLICT RISK

- When configuring the LAN address, avoid using the [192.168.2.xxx] segment which is reserved for WAN by default.
- Select an alternative non-conflicting segment.
- Store passwords securely to prevent accidental errors.
- Verify LAN and WAN segments are distinct via the EcoStruxure Energy Storage Gateway's network management interface after configuration.

Failure to follow these instructions can result in the network port failing to connect.

- Select "Settings" → "Network and Internet Settings" → "LAN". Customers configure the LAN port of EcoStruxure Energy Storage Gateway through this page.

LAN

IP address:

192.168.1.136

Subnet Mask:

255.255.255.0

Cancel

Save Configuration

- Parameter descriptions are as follows:

Name	Description
IP Address	Default is 192.186.1.136
Subnet Mask	Default is 255.255.255.0

- Click Save after the configuration is completed. The configuration will take effect after restarting the device.

- Select "Settings" → "Northbound Interface". The Northbound Interface includes three interfaces: OMC Cloud, Northbound Modbus, and Northbound MQTT.

Northbound Interface

Schneider OMC Cloud

EESG connect to Schneider OMC Cloud



Northbound Modbus Interface

Northbound Modbus interface between EESG and other devices



Northbound MQTT Interface

Northbound MQTT interface between EESG and cloud platform



7.1 OMC Energy Cloud

- The configuration is shown in the figure below.

← Schneider OMC Cloud

Certificate:

root.crt

Import New Certificate

Communication Interface:

4G



EMSID:

100

Server:

Schneider OMC



Data Upload Enable:



Cancel

Save Configuration

- Parameter description are as follows:

Name	Description
Encryption	Encrypted or Not
Certificate	Import the certificate provided by OMC Cloud. This option is only valid in the case of encryption.
Communication Interface	Select 4G or WAN.
EMSID	Enter the EMSID provided by OMC Cloud.
Server	The server address where the OMC Cloud is located. When selecting "Other", manually enter the server address and port.
Data Upload Enable	Whether data upload to the Cloud Computing Platform is allowed. Generally, data upload is disabled during the debugging phase.

- Configuration is completed. After completion, click Save.

7.2 Northbound Modbus Settings

- When using the network port, select TCP, and the configuration is as shown in the figure below:

Northbound Modbus Interface

Protocol Selection



TCP



RTU

Encryption:



Certificate:

root.crt

Import New Certificate

Communication Interface:

LAN



IP Address:

192.168.1.136

Port:

502



Cancel

Save Configuration

7.2 Northbound Modbus Settings

■ Parameter description are as follows:

Name	Description
Protocol Selection	Choose between TCP protocol and RTU protocol. Select TCP for the network port and RTU for the RS485 interface.
Encryption	Encrypted or Not. Effective when TCP is selected.
Certificate	Import the certificate provided by the northbound device. This option is only valid in the case of encryption.
Communication Interface	Can only be LAN.
IP Address	This address is determined by the LAN address of the previous section.
Port	Preset 502

■ When using RS485, select RTU, and the configuration is as shown in the following figure:

Northbound Modbus Interface

Protocol Selection

☐ TCP

☒ RTU

485 Interface:

485-4

▼

Baud Rate:

11520

▼

Data Bits:

8

▼

Stop Bit:

1

▼

Parity:

NONE

▼

Cancel

Save Configuration

■ Parameter descriptions are as follows, and all parameters cannot be modified.

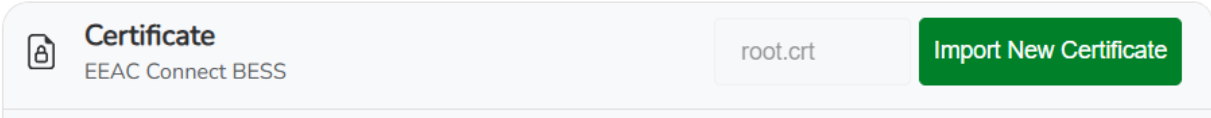
Name	Description
Protocol Selection	Choose between TCP protocol and RTU protocol. Select TCP for the network port and RTU for the RS485 interface.
485 Interface	Fourth Port
Baud Rate	Baud rate 9600
Data Bits	Data Bits: 8
Stop Bit	Stop Bit: 1
Verification Method Parity	No verification

■ Configuration is completed. After completion, click Save.

- Select "Settings" → "Southbound Interface". The Southbound Interface only supports operations on BESS Products.

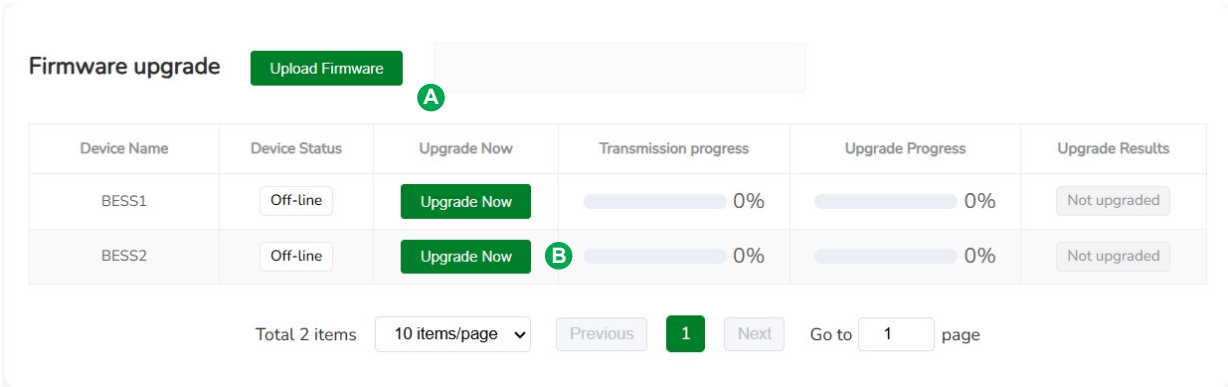
8.1 BESS Products

- The BESS interface includes three major functions: BESS firmware upgrade, BESS log export, and grid code setting.
- When encrypted communication is conducted between EcoStruxure Energy Storage Gateway and BESS, a certificate needs to be imported, as shown in the following figure:



8.1.1 BESS Firmware Upgrade

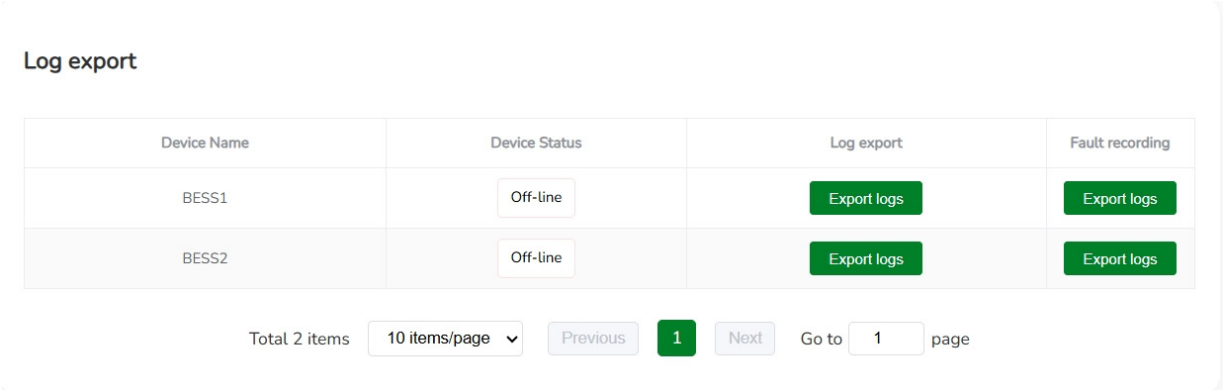
- The firmware upgrade diagram is as follows:



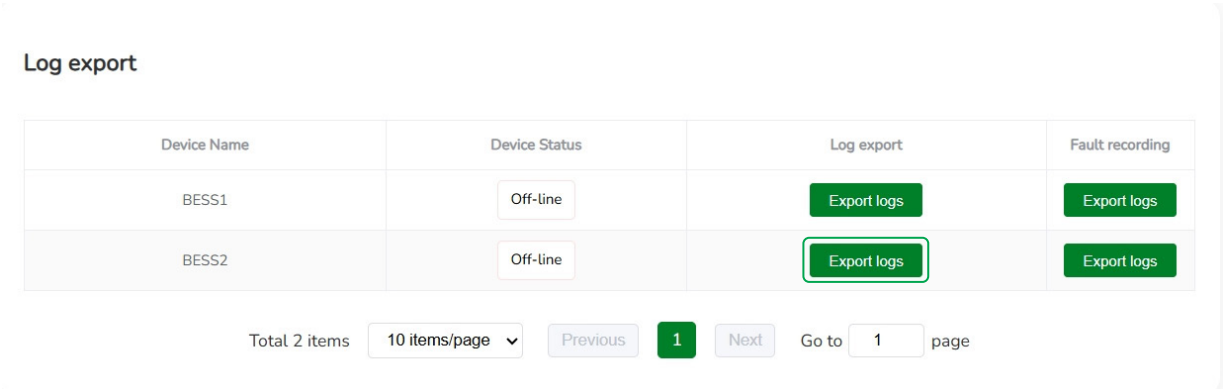
- The firmware upgrade diagram is as follows:
 - A. Click "Upload Firmware", select the BESS firmware file, and upload it.
 - B. Click "Upgrade Now" to perform BESS firmware upgrade.

8.1.2 BESS Log/Recording Export

- The following is the export diagram of the BESS log:



- If you need to export logs, the step is as follows:
 - a. Click to export the log.



- b. Select Cabinet Control Log or PCS Log.
 - c. Select the log date.
 - d. Export the file.

8.1 BESS Products

8.1.2 BESS Log/Recording Export

- If you need to export fault recording, the step is as follows:
 - a. Click to Export.

Log export

Device Name	Device Status	Log export	Fault recording
BESS1	Off-line	Export logs	Export logs
BESS2	Off-line	Export logs	Export logs

Total 2 items10 items/pagePrevious1NextGo to1page

- b. Export File.

8.1.3 BESS Grid Code Settings

- Click the grid code in the row where the BESS to be issued with the grid code is located.

Grid code setting

Device Name	Device Status	Grid code
BESS1	Off-line	Please select the power grid code
BESS2	Off-line	Please select the power grid code

Total 2 items10 items/pagePrevious1NextGo to1page

- After selecting a suitable power grid and clicking, it will be automatically issued.

- Select "Tools" → "System".

9.1 EcoStruxure Energy Asset Controller firmware

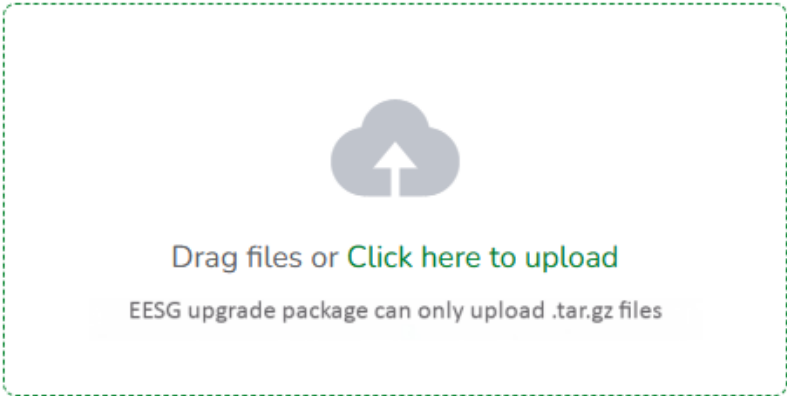
- Firmware Version Information.

EESG firmware

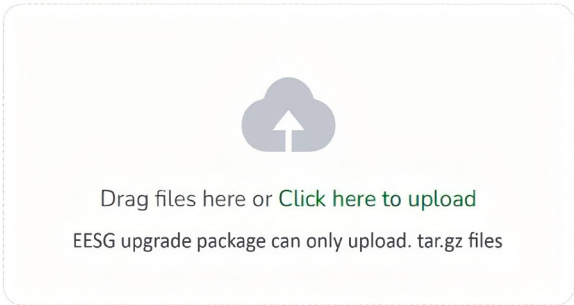
EESG firmware version:	V3.7.0-JV
Device:	V3.7.0.8-JV
Cloud:	V3.7.0.6-JV
Policy:	V3.6.6.0-JV
Local WEB:	V3.7.0.3-JV

- Firmware Upgrade.

- a. Drag the firmware file into the firmware upload box, or click on the upload box and select the corresponding file.



- b. After the firmware upload operation is successful, the system starts to transfer the upgrade file.

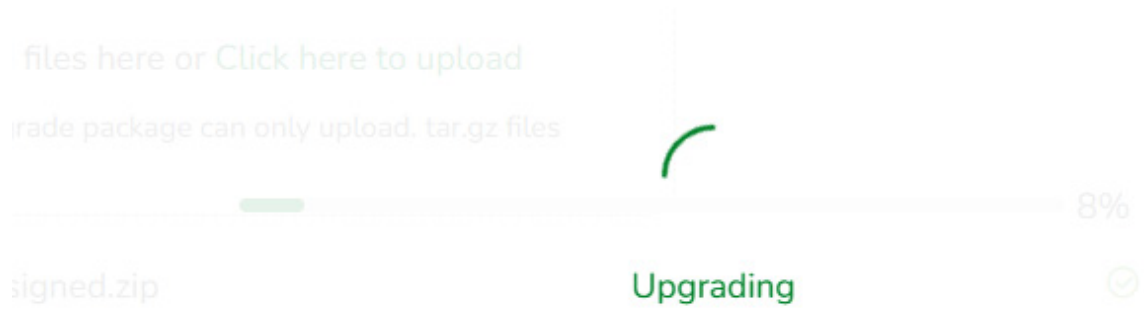


 firmware_signed.tar.gz

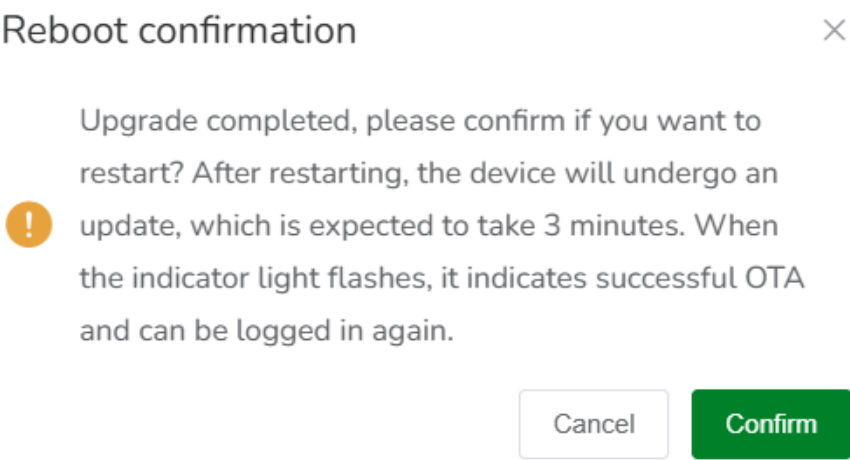


9.1 EcoStruxure Energy Storage Gateway firmware

c. After the transfer is completed, the official upgrade will begin.

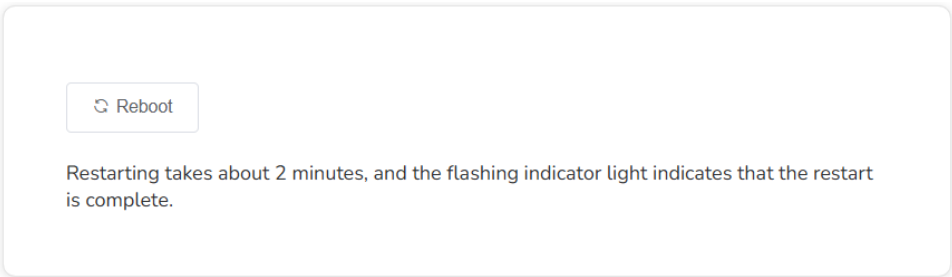


d. After the upgrade is completed, a dialog box asking whether to restart will automatically pop up, as shown in the following figure:

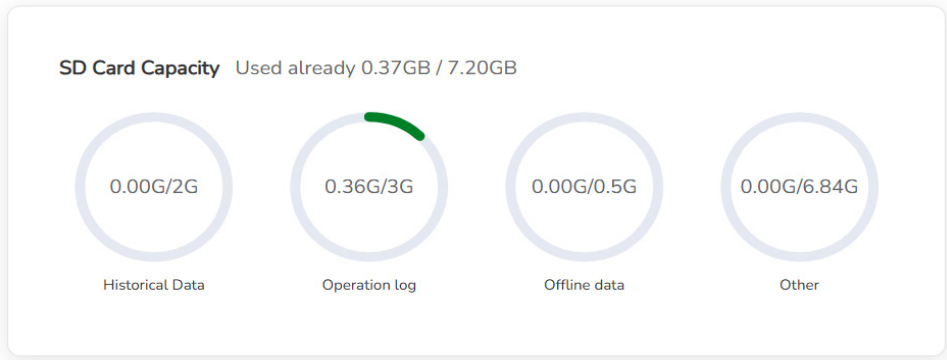


e. Wait approximately 3 minutes. After the EcoStruxure Energy Storage Gateway indicator starts flashing, it indicates that the restart is complete, and you can log in to EcoStruxure Energy Storage Gateway again.

- Force start. After clicking the force restart button, EcoStruxure Energy Storage Gateway will restart.



9.2 SD card capacity



9.2 SD card capacity

■ Parameter descriptions are as follows:

Project	Maximum Occupancy	Remarks
Historical Data	2G	Stored electricity meter or charger data.
Operation Log	3G	Log files during the operation of EcoStruxure Energy Storage Gateway.
Offline data	0.5G	When EcoStruxure Energy Storage Gateway is briefly offline, the data originally intended to be uploaded to the cloud will be stored in this buffer and immediately sent to the cloud once it comes back online.
Other	All remaining capacity	

Appendix I

■ The definitions of the EcoStruxure Energy Storage Gateway series of terminals are shown in the figure below.

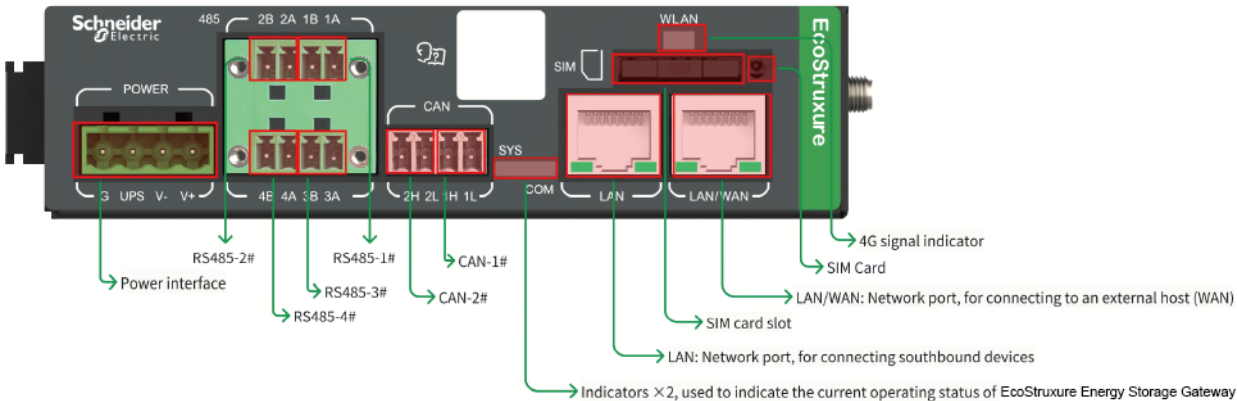


Figure A-1 Terminal Definitions of EcoStruxure Energy Storage Gateway

Appendix II

■ The status indication of the indicator light is shown in the table below.

No.	Lighting type		Error	Meaning	Remark
	SYS	COM			
1	Red	Red	Level 1 (High)	4G communication malfunction or TF card authentication issue	Operational breakdown of EcoStruxure Energy Storage Gateway
2	Red	Green	Level 2 (Medium)	485/CAN/LAN malfunction	Functional impairment of charging station power management
3	Green	Red	Level 3 (Low)	RTC anomaly or other glitch	No effects on operation
4	Green	Green	No error	Function is normal	N/A