eMobility Infrastructure

Commissioning Guide

EVSOLCG001EN-00 06/2025





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Table of Contents

Safety Information	5
Before You Begin	6
Start-up and Test	7
About the Document	8
Presentation of EV Infrastructure	12
Applications for Buildings	13
Key Variables	15
Supported Architectures	16
Specific Functions and Configurations	17
Offers and Products	18
EV Charging Station Ranges Compatible with EcoStruxure EV	
Charging Expert	19
Offers and Commissioning Tools	20
Other Products	23
Prerequisites	26
EcoStruxure EV Charging Expert User Interface	28
Commissioning EV Infrastructure Systems	31
Description of System Architectures	
System Architecture 1	
System Architecture 1: Presentation	
System Architecture 1: Commissioning Procedure	
System Architecture 2	
System Architecture 2: Presentation	
System Architecture 2: Commissioning Procedure	
System Architecture 3	
System Architecture 3: Presentation	40
System Architecture 3: Commissioning Procedure	41
System Architecture 4	42
System Architecture 4: Presentation	43
System Architecture 4: Commissioning Procedure	44
System Architecture 5	45
System Architecture 5: Presentation	46
System Architecture 5: Commissioning Procedure	47
Procedures	48
Introduction	49
Configuring the 4G Cellular Modem with DHCP	50
Configuring the 4G Cellular Modem without DHCP	54
Configuring the PC to connect to EcoStruxure EV Charging	
Expert	56
Connecting to EcoStruxure EV Charging Expert	57
Checking the Installed Firmware Version	57
Creating an Installer Account	58
Starting a New Configuration	59
Updating Network Settings	60
Rebooting EcoStruxure EV Charging Expert	62
Reconnecting to EcoStruxure EV Charging Expert Web Page	63
Configuring Charge Point Operator Supervision	64

Managing Basic Authentication and Charge Point Operator	
Certificates	65
Setting the Date and Time	67
Setting Energy Management	68
Installing and Configuring the Charging Stations	70
If installing EVlink Pro AC or Schneider Charge Pro, One by	
One	79
Relaunching the Discovery Process	80
Updating the Charging Station Settings	81
Finishing the Installation of the Selected Charging Stations	82
Configuring Power Meters	83
Creating Zones and Sub-Zones	
Assigning Charging Stations	
Configuring Time of Use and Digital Inputs	
Managing Authentication	92
Finalizing the Commissioning	94
Saving and Exporting Configuration	95
Commissioning EVlink Pro AC Charging Stations One by One by	
Using eSetup Application	
Commissioning Schneider Charge Pro Charging Stations One by	
One by Using eSetup Application	97
Specific Functions and Configurations	90
Importing EcoStruxure EV Charging Expert Configuration	00
Undating EcoStructure EV Charging Expert Configuration	100
Setting Lip a Ring Topology for EV/link Pro AC Range	101
	101
Configuring EV/link Dro AC Charging Stations with Statum	102
Configuring Evilitik FTO AC Charging Stations with esetup	103
Evenue of a Configuration Light a Schneider Electric Medican	104
	105
Setting up the King Network	112

Safety Information

What's in This Part

Before You Begin	6
Start-up and Test	7

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

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.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

Before You Begin

Electrical monitoring and control equipment, and related software are used in a variety of buildings. The type or model of electrical monitoring and control equipment suitable for each application varies, depending on factors such as the system dependability level, unusual conditions and government regulations.

Only the user can be aware of all the conditions and factors present during setup, operation, and maintenance of the solution. Therefore, only the user can determine the electrical monitoring and control equipment and the related safeties and interlocks which can be appropriately used. When selecting electrical monitoring and control equipment, and related software for a particular application, the user should refer to the applicable local and national standards and regulations. The National Safety Council's Accident Prevention Manual (nationally recognized in the United States of America) also provides much useful information.

Ensure that appropriate safeties and mechanical/electrical interlocks protection have been installed and are operational before placing the equipment into service. All mechanical/electrical interlocks and safeties must be coordinated with the related automation equipment and software programming.

Start-up and Test

Before using electrical control and automation equipment for regular operation after installation, the system should be given a start-up test by qualified personnel to verify correct operation of the equipment. It is important that arrangements for such a check are made and that enough time is allowed to perform complete and satisfactory testing.

Follow all start-up tests recommended in the equipment documentation. Store all equipment documentation for future reference.

Test the software in both simulated and real environments.

Verify that the completed system is free from all short circuits and temporary grounds that are not installed according to local regulations (according to the National Electrical Code in the U.S.A, for example). If high-potential voltage testing is necessary, follow recommendations in equipment documentation to prevent accidental equipment damage.

About the Document

Document Scope

The purpose of this guide is to provide installers, maintenance personnel and users with the technical information necessary to commission EV infrastructure systems.

Validity Note

This document is applicable to the following charging stations:

- Pro AC charging stations
- Pro AC Metal charging stations
- · Schneider Charge Pro charging stations

The characteristics of the products described in this document are intended to match the characteristics that are available on www.se.com. As 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 www.se.com, consider www.se.com to contain the latest information.

Online Information

The information contained in this guide is likely to be updated at any time. Schneider Electric strongly recommends that you have the most recent and up-todate version available on www.se.com/ww/en/download.

The technical characteristics of the devices described in this guide also appear online. To access the information online, go to the Schneider Electric home page at www.se.com.

Product Related Information

AWARNING

UNGUARDED EQUIPMENT

- Do not use this product on equipment lacking effective point-of-operation guarding. Lack of effective point-of-operation guarding on a machine can result in serious injury to the operator of that machine.
- Do not use this software and related automation equipment on equipment which does not have point-of-operation protection.
- Do not reach into machinery during operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

EQUIPMENT OPERATION HAZARD

- Remove tools, meters, and debris from equipment.
- Close the equipment enclosure door.
- Perform all start-up tests recommended by the manufacturer.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

HAZARD OF LOSS OF DATA AND CYBERSECURITY WARNING

- Activate product and component licenses prior to the expiry of the trial license.
- Activate sufficient licenses for the servers and devices in your system.
- Back up or archive any SQL Server database data before adjusting any database memory options.
- Only personnel with advanced knowledge of SQL Server databases must make database parameter changes.
- Change default passwords at first use to help prevent unauthorized access to device settings, controls, and information.
- Disable unused ports/services and default accounts to help minimize pathways for malicious attackers.
- Place networked devices behind multiple layers of cyber defenses (such as firewall, network segmentation, and network intrusion detection and protection).
- Use cybersecurity best practices (for example, least privilege, separation of duties) to help prevent unauthorized exposure loss, modification of data and logs or interruption of services.

Failure to follow these instructions can result in equipment damage.

NOTICE

HAZARD OF NETWORK INOPERABILITY

Do not make unauthorized changes in the network configuration.

Failure to follow these instructions can result in equipment damage.

See in this guide:

- Before You Begin, page 6
- Start-up and Test, page 7

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.

To help keep your Schneider Electric products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the Cybersecurity Best Practices document.

Schneider Electric provides additional information and assistance:

- Subscribe to the Schneider Electric security newsletter.
- Visit the Cybersecurity Support Portal web page to:
 - Find Security Notifications.
 - Report vulnerabilities and incidents.
- Visit the Schneider Electric Cybersecurity and Data Protection Posture web page to:
 - Access the cybersecurity posture.
 - Learn more about cybersecurity in the cybersecurity academy.
 - Explore the cybersecurity services from Schneider Electric.

Related Documents

Title of documentation	Reference number
Cybersecurity Best Practices	Refer to General Cybersecurity Information, page 10.
EcoStruxure™ EV Charging Expert User Guide	DOCA0358EN
eMobility Solutions - Catalog	E-MOBILITY-EVL-CAT04_EN
eMobility Infrastructure Design Guide for Building Applications	EVSOL1DG001EN
EVlink Pro AC Troubleshooting Guide	NNZ1940301 (EN/FR)
Schneider Charge Pro Installation and Operation Guide	TME42383
Modicon Networking Catalog 2024	DIA6ED2140903EN
eSetup EVlink Pro AC Charging Stations - a playlist of videos to help you install and commission EVlink Pro AC	https://youtube.com/playlist? list=PLa7UGrWOTyjlFktxGiia8yNkYOQaMJuzX
Video showing how to configure load management parameters	https://youtu.be/c3FBqzF1Avw

Title of documentation	Reference number
Video showing how to configure Schneider Charge Pro with eSetup	https://youtu.be/BGCuxbVv9AU
Video showing how to configure Ethernet communication parameters	https://www.youtube.com/ watch?v=Sg7sAeqko_w&t=89s

To find documents online, visit the Schneider Electric download center (www.se.com/ww/en/download/).

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.

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Presentation of EV Infrastructure

What's in This Part

Applications for Buildings	13
Key Variables	15
Supported Architectures	16
Specific Functions and Configurations	17
Offers and Products	18

Applications for Buildings

The EV infrastructure supports the following applications for buildings:

- New office building with local load management system (EcoStruxure EV Charging Expert), page 13
- Ethernet architecture for multi-unit residential buildings with local load management system (EcoStruxure EV Charging Expert), page 14
- Depot for electric LCV (light commercial vehicle) fleet managed by a charging point operator, page 14

New Office Building with Local Load Management System (EcoStruxure EV Charging Expert)



NOTE: For EVlinkPro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

Ethernet Architecture for Multi-Unit Residential Buildings with Local Load Management System (EcoStruxure EV Charging Expert)



Depot for Electric LCV Fleet Managed by a Charging Point Operator



NOTE: For EVlinkPro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

Key Variables

The commissioning of the EV infrastructure depends on the following key variables:

- · Ranges and models of charging station: AC and/or DC charging stations
- EV load management system:
 - ∘ Installation of EcoStruxure[™] EV Charging Expert
 - Definition of the load management mode (static or dynamic)
- Operational requirements:
 - Local operation only
 - Connection to a remote charging station management system (Schneider Electric or third party)
- IT/Network configuration
 - With or without DHCP server from customer site
 - Internet connectivity and network topologies (star, daisy chain, or ring)

Supported Architectures

This guide explains the commissioning procedure for the following system architectures:

- System Architecture 1, page 33: Full architecture: supervision edge load management charging stations. IT including DHCP server is managed by the customer.
- System Architecture 2, page 36: No supervision. Edge load management and charging stations operated locally by the customer.
- System Architecture 3, page 39: With supervision charging stations. No edge load management. A 4G cellular modem as an internet gateway and DHCP server.
- System Architecture 4, page 42: Full architecture: supervision edge load management - charging stations. A 4G cellular modem as an internet gateway and DHCP server.
- System Architecture 5, page 45: Full architecture: supervision edge load management - charging stations. A 4G cellular modem as an internet gateway limited to the connection to the supervision, and without DHCP server.



Specific Functions and Configurations

This guide additionally describes how to:

- Import an EcoStruxure EV Charging Expert configuration, page 99
- Update EcoStruxure EV Charging Expert firmware, page 100
- Set up and configure a ring topology network for EVlink Pro AC range, page 101

Offers and Products

What's in This Chapter

EV Charging Station Ranges Compatible with EcoStruxure EV Charging	
Expert	19
Offers and Commissioning Tools	20
Other Products	23

For detailed information about Schneider Electric eMobility offers and products, refer to *eMobility Solutions - Catalog*, page 10.

EV Charging Station Ranges Compatible with EcoStruxure EV Charging Expert

The following sections indicate how to find support for commissioning each EV charging station range.

EV Charging Station Ranges Covered in this Guide

The following table indicates the characteristics of each EV charging station range covered in this guide.

Charging station range	Power rate and phases availability	Minimum firmware version for compatibility with EV Charging Expert	Charging station commissioning
EVlink Pro AC	From 7.1 kW to 22 kW 1P or 3P	1.3.8	See General Procedure to Update EVlink Pro AC Charging Station Firmware, page 71. Refer to the video showing how to commission EVlink Pro AC charging station with eSetup: Mttps://youtube.com/ playlist?list= PLa7UGrWOTyjlFktx- Giia8yNkYOQaMJuzX
Schneider Charge Pro (AC)	From 7.4 kW to 22 kW 1P or 3P	1.18.1	See Updating EVlink Schneider Charge Pro Charging Station Firmware, page 78.

Other EV Charging Station Ranges not Covered in this Guide

- EVlink Smart Wallbox (legacy range)
- EVlink Parking (legacy range)
- EVlink Pro DC 60 kW
- EVlink Pro DC 60 kW V2
- Schneider StarCharge Fast 60 kW
- EVlink Pro DC 180 kW
- EVlink Pro DC 180 kW V2
- Schneider StarCharge Fast 180 kW
- EVlink Pro DC 320 kW
- Schneider StarCharge Fast 320 kW

For EV charging station ranges not covered in this guide, contact your local Schneider Electric front office.

Offers and Commissioning Tools

Schneider Electric offers and commissioning tools are as follows:

- EcoStruxure EV Charging Expert charging load management system, page 20
- Schneider Electric energy and building management systems, page 21
- eSetup commissioning application for electricians, page 22

EcoStruxure EV Charging Expert



EcoStruxure EV Charging Expert 6.0 is a load management system that helps control EV infrastructure and distribute available power to the charging stations.

It allows EV charging to be monitored, controlled, and maximized based on the real-time available power in the building.

It helps to ensure the respect of cost and energy efficiency constraints of a set of charging stations by controlling their operation. The controller runs its management program according to the selected parameters and data received from the charging stations.

The main functions performed by EcoStruxure EV Charging Expert charging load management system are the following:



For more information, refer to:

www.se.com

 the video explaining the benefits of load management in EV Infrastructure with EcoStruxure EV Charging Expert:



https://youtu.be/aYEEmJeRaYc

Schneider Electric Energy and Building Management Systems

EV load is integrated into a facility management system, with the following features:

- All-in-one monitoring of the electrical distribution:
 - A single interface to supervise and monitor the EV charging infrastructure integrated into the building electrical distribution network
 - Detailed alarms to make quick and informed decisions if something happens
 - Detailed view of circuit capacity to optimize the electrical distribution and to forecast EV infrastructure evolution
- · Power demand and power quality monitoring:
 - EV charging station status and usage continuous monitoring
 - Monitoring and EV charging stations power output to control the peak demand
 - Power quality view to analyze the impact of DC charging on the electrical distribution network and anticipate adverse effects
- Energy consumption trends and KPIs:
 - Identification of the charging stations with the highest consumption
 - Consumption comparison per zone, time period, or parking usage



EcoStruxure Power Monitoring Expert

EcoStruxure Power Monitoring Expert (PME) is designed to help energy-intensive facilities maximize uptime and operational efficiency.

It leverages IoT connectivity and distributed intelligence to provide the flexibility and adaptability needed for today and for the IoT-enabled future.

For more information, refer to www.se.com.



EcoStruxure Building Operation software

EcoStruxure Building Operation is a building management software that delivers the right information when, where and how you want it. Operations are simplified with drag-and-drop trending, calendar-like schedules and one-click reporting. Native open protocols provide the freedom to choose the right equipment for your application. EcoStruxure Building Operation software provides up to 30 % energy savings. It helps create a healthy and sustainable environment.

For more information, refer to www.se.com.

eSetup Commissioning Application for Electricians



eSetup is a dedicated application to configure and commission Schneider Electric products. It can be used to commission EVlink Pro AC and Schneider Charge Pro charging stations manually.

Download eSetup:





- From Google Play:
- · Via your mySchneider account

Other Products

For information about other products compatibility, recommendations and limitations, refer to:

- DOCA0358E EcoStruxure EV Charging Expert User Guide, page 10
- EVSOL1DG001EN eMobility Infrastructure Design Guide for Building Applications, page 10
- Schneider Electric Customer Care Center

Schneider Electric Power Meters

NOTE: Power metering is only required when EcoStruxure EV Charging Expert is used in dynamic mode.

The following table lists the power meters from Schneider Electric that are compatible with EcoStruxure EV Charging Expert.

Refer to DOCA0358E EcoStruxure EV Charging Expert User Guide, page 10.

Name	Pole description	Input type	Comment
A9MEM3250 (PAS600 + Acti 9 iEM3000)	1P + N / 3P / 3P + N	External current transformer (CT): 1 A or 5 A	-
METSEPM5320 (PowerLogic™ PM5000)	1P + N / 3P / 3P + N	-	-
A9XMWD20 (PowerTag Link + PowerTag sensors)	1P + N / 3P / 3P + N	PowerTag wireless energy sensor up to 630 A	_

Name	Pole description	Input type	Comment
ComPact NSX circuit breaker with embedded metering (with Enerlin'X IFE gateway)	3P / 4P	Modbus TCP	For 3P, if you want to have power per phase with NSX 3-poles, you must add external neutral voltage tap.
MasterPacT [™] MTZ circuit breaker with embedded metering (with embedded Enerlin'X EIFE module)	3P / 4P	Modbus TCP	For 3P, if you want to have power per phase with MTZ 3-poles, you must add external neutral voltage tap.

The following table shows the Modbus registers to get data, according to the type of power meter or circuit breaker.

	PM5320, IEM3x5x, PowerTag A	ComPact NSX legacy	ComPacT NSX	MasterPacT MTZ
Register for current Ph1	3000	12016	32028	32028
Register for current Ph2	3002	12017	32030	32030
Register for current Ph3	3004	12018	32032	32032
Register for power Ph1	3054	12038	32077	32077
Register for power Ph2	3056	12039	32074	32074
Register for power Ph3	3058	12040	32076	32076
Register for total active power	3060	12041	32078	32078
Register for total active energy delivered	3204	12050	32096	32096

Other power meters that are not part of this selection are compatible with EcoStruxure EV Charging Expert as well.

When commissioning the power meter, select from the drop-down list on **Model** field, the corresponding model of power meter matching the appropriate registers list.

Modems



Use a 4G cellular modem (EVP3MM) with EcoStruxure EV Charging Expert. It is connected on the same network as EcoStruxure EV Charging Expert.

NOTE: Other modems with router function can be used.

Recommended Switches

Use Modicon Networking switch to integrate Ethernet solutions into your operation.



For more information about communication network definition, refer to EVSOL1DG001EN eMobility Infrastructure Design Guide for Building Applications, page 10.

Prerequisites

Before starting the commissioning procedure, gather the following information:

- Project, page 26
- Electrical environment, page 26
- IT plan and network, page 26
- EV charging infrastructure, page 26
- Usage and users, page 26
- Other useful information, page 27

Project information			
Before scheduling the commissioning of the EV infrastructure, evaluate with the facility manager of the building the impact of the commissioning regarding the building activities:	 Consider whether the building is occupied or not by residents, employees, or customers during the operation. 		
	Consider whether there is any specific safety plan to consider.		
	Check that the power is on, tested, and running on site.		
	 Check that the access to electrical switchboards of the site and to the EV infrastructure is approved. 		
	Check that the IT manager and/or technical team are available.		
	 Check that there is 4G connectivity available in the technical room or from the EV switchboard where EcoStruxure EV Charging Expert is installed. 		
Electrical environment information			
Before going on site, get the electrical	Power supply		
distribution plan and wiring diagram of	Earthing system		
the site with all information regarding:	Electrical protections		
	 Number, location and details of main and subsidiary switchboards dedicated to the EV Supply Equipment (EVSE) 		
	Overall power allocated to the EVSE		
	 Installed or to be installed power meters (number, monitoring zone, model, location, IP address) 		
IT plan and network information			
Check the following information with the	IP address range		
IT manager:	DHCP server available on site or not		
	4G modem available on site with remote access allowed		
	Outcome: local IT is specified		
	Detailed wiring diagrams and typology of the EV infrastructure network		
	IP address, mask, gateway		
	Domain Name System (DNS)		
	4G modem settings and SIM card ready		
EV charging infrastructure information			
Establish the composition of the	Power range and model of charging stations		
infrastructure:	 For each charging station: name, location, serial number, phase wiring, derating, OCPP box ID 		
	Definition of the EV zones		
	Supervision system (local or remote)		
Usage and user information			
Gather all relevant specifications you	Device location		
need to commission and configure	Load management system (LMS) mode (static or dynamic)		
Ecosituxule EV Charging Expert.	Power meter models with ID and configuration settings if needed		
	Maximum current		
	 Degraded mode (load shedding duration and priority: IEC or EV/ZE ready) 		
	Time of use		
	Digital inputs		
	 Authentication patterns: free, via RFID (list of badges available, RFID tags known and ready), VIP and offline strategy 		

Other useful information	
Before scheduling the commissioning of the EV infrastructure:	 Create a list of stakeholder contacts. Prepare all relevant product documentation (user manual, installation guide, commissioning guide). Check that all products are updated to their latest firmware version (charging stations, load management system, modem, switch). For EVlink Pro AC and Schneider Charge Pro charging stations, check that you have the latest version of eSetup application installed on your mobile phone. The SIM card is needed for wireless installation. Not all charging stations have embedded modem where you can insert a SIM card. Depending on the network architecture, the 4G modem can refer to an external modem or router (4G cellular modem). Before going on
	site, install all embedded or external SIM cards.

EcoStruxure EV Charging Expert User Interface

EcoStruxure EV Charging Expert monitoring dashboard displays the following information:

- Ongoing status of the charging stations
- Load transaction
- Zone configuration

Monitoring dashboard also allows you to manage charging stations:

- Reboot the charging stations
- · Start and stop remotely a charging station
- Publish a diagnostic report

Monitoring dashboard is the following screen.

Monitoring dashboard



- A. Zone panel
- B. Export Transactions button
- C. Dashboard giving information about zones and charging stations
- D. Transaction information and management
- E. Charging stations assignment and management

Zone Screen

When you select a zone in the zone panel, the following zone screen is displayed.

Ev Charging Expert	NAGENENT ADMIN -	A	B)		(C) ? & user.a	admin2 - So	chneider Electric
Zones ^ 《 All Zones	DASHBOARD	Stations 8	ダ Current Repartition	Setpoint 720 A	ি Zore Consumption		Head PM (
 Stet > Paning > Employee Parking > Vraitor Parking > Vaitor Parking d_, Export Transactions 	Charge Florid 12 # Availab 10 Physics 0 # Charge 0 0 # Charge 0 0 # Support 0 by 5. 0 # Unitswall 0 # WORSMATION 0	0	La Para Contra C	736 Avalaht Curvet € Gol ≣ Cosl	11 4094 12 4094 13 50 14 50 15 50 16 50 10 50 10 10 50 10 10 50 10 10 10 10 10 10 10 10 10 10 10 10 10	94. 43423 W/h 157 W	7204	^
	TRANSACTION ID Station	RFID Can	d Status	Phase	Date/Duraton En	ergy Setpoint	Consumption	^
	216 53 <u>Borne_1</u> -38 1 217 53 <u>Borne_3</u> -38 1	ରୁ 2611 ରୁ 2619	7001 (Î Suspende 7826 (Î Suspende	d by Vehicle	09/01/2025.06:55:56 ① 2 hours 42 minutes 12 09/01/2025.08:36:01 11 ① 1 hour 11	.42 kWh 32 A .28 kWh 32 A	0 A 0 A	0

A. Station Fleet: status of the charging stations assigned to the selected zone

- B. **Current Repartition**: charging setpoint available according to the selected zone maximum current, zone consumption and transactions
- C. **Zone Consumption** (only for dynamic zones): zone consumption reported by the assigned power meter

Transaction Information and Management

The following transaction information is displayed.

Ą	₿	ę	P	Ę	F	Ģ	\mathbb{H}	0	
RANSA	CTION								~
ID	Station	RFID Card	Status	Phase	Date/Duration	Energy	Setpoint	Consumption	
216	5 Borne_1 -3: 1	© 26117D01	Suspended by Vehicle		09/01/2025, 06:55:56 ① 2 hours, 42 minutes	12.42 kWh	32 A	0 A	8
217	හි <u>Borne_3</u> -ට 1	♀ 26197826	Suspended by Vehicle		09/01/2025, 08:36:01	11.28 kWh	32 A	0 A	0

- A. ID: unique identifier of the transaction
- B. Station: station name and connector used for the charging session
- C. RFID Card: RFID card which launches the transaction
- D. Status: status of the transaction according to OCPP standard:
 - Charging
 - SuspendedEV
 - SuspendedEVSE
 - Finishing
- E. Phase: phases selected by EV (mono-phase or tri-phased)
- F. **Date/Duration**: transaction start date and effective charging duration (time spent in charging state)
- G. Energy: energy consumed by the ongoing transaction
- H. Setpoint: current setpoint (intensity or power allocated to the charging station)
- I. **Consumption**: consumption of the charging station

Station Screen

When you select a charging station in the zone panel, the station screen provides the following information.

- Name
- Charge box identity: used for remote supervision
- · VIP status: option to enable VIP access to the charging station
- Electrical phase configuration of the charging station
- Vendor of the charging station
- Firmware version and management
- · Current allocated to the charging station in degraded mode

In the station screen, the following log section displays all OCPP commands received by EcoStruxure EV Charging Expert from the selected charging station.

EV Charging Expe	ert EVCE	0				? Co user_admin *	Scivic
ARGING STATIONS	RFID CARDS	MANAGEMENT ADMIN +					
						~	
Zones	\sim	Do you want to stop the transac	tion?				
All Zones		Force Remote Stop					
○ 1st Floor						Confirm	Cancel
A11223344001	0						
A11223344002	0	LOGS					
A11223344003							_
) 2nd Floor						γ 🕹 Download Logs 🔮 🖗	efresh
> 3nd Floor		Device "A11223344001"	0)				
		Date	Device	Type	Sub Type	Message	
💩 Export Transa	ctions	15/07/2024 16:41:52	A11223344001	OCPP	StatusNotification	Connector = 1 - Status = Charging - Error = NoError	~
		15/07/2024 16:41:51	A11223344001	OCPP	StatusNotification	Connector = 1 - Status = SuspendedEVSE - Error = NoError	~
		15/07/2024 16:41:33	A11223344001	OCPP	StatusNotification	Connector = 1 - Status = Charoing - Error = NoError	~
		1507/2024 16:41:31	A11223344001	OCPP	StatusNatification	Connector = 1 - Status = SuspendedEVSE - Error = NoError	~
		1507/2024 16:41-13	A11223344001	0.000	Status Notification	Connector = 1 - Status = Charoing - Error = NoError	~
		1507/2024 1645-11	A11222244001	OCEP	Status Matification	Connector = 1 - Status = SuspendedEVSE - Error = NoError	-
		15/07/2024 16:40-52	A11222244001	OCER	Status Matification	Connector = 1 - Status = Charging - Error = NoError	
		1307/2024, 2040/23				Consider 1 Only Consider Diff. Days McCons.	

Commissioning EV Infrastructure Systems

What's in This Part

Description of System Architectures	
System Architecture 1	
System Architecture 2	
System Architecture 3	
System Architecture 4	
System Architecture 5	
Procedures	

Description of System Architectures

The five system architectures are the following:

- System Architecture 1, page 33: Full architecture: supervision edge load management charging stations. IT including DHCP server is managed by the customer.
- System Architecture 2, page 36: No supervision. Edge load management and charging stations operated locally by the customer.
- System Architecture 3, page 39: With supervision charging stations. No edge load management. A 4G cellular modem as an internet gateway and DHCP server.
- System Architecture 4, page 42: Full architecture: supervision edge load management - charging stations. A 4G cellular modem as an internet gateway and DHCP server.
- System Architecture 5, page 45: Full architecture: supervision edge load management - charging stations. A 4G cellular modem as an internet gateway limited to the connection to the supervision, and without DHCP server.



System Architecture 1

What's in This Chapter

System Architecture 1: Presentation	34
System Architecture 1: Commissioning Procedure	35

System Architecture 1: Presentation

The main characteristics of system architecture 1 are the following:

- Compatible with EcoStruxure EV Charging Expert 6
- Load management system mode: dynamic
- · DHCP server and gateway managed by the customer
- · Digital network: star or daisy chain using managed switches
- EV infrastructure operated by an external charging point operator, no need for authentication or badges
- Greenfield architecture



System architecture 1 can be implemented for the following models of charging stations:

Charging station	Minimum version
Schneider Charge Pro	1.18.1
EVlink Pro AC	1.3.8

IMPORTANT: If there is a common EcoStruxure EV Charging Expert supervising the stations, it is not possible to install Schneider Charge Pro charging stations and EVlink Pro AC charging stations in the same EV infrastructure.

NOTE: For EVlink Pro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

System Architecture 1: Commissioning Procedure

Follow these steps to commission an EV infrastructure using architecture 1.

- 1. Switching on the device and configuring the PC, page 56
- 2. Opening a web browser, page 57
- 3. Checking the installed firmware version, page 57
- 4. Creating an installer account, page 58
- 5. Starting a new configuration, page 59
- 6. Changing EcoStruxure EV Charging Expert settings, page 60
- 7. Rebooting EcoStruxure EV Charging Expert, page 62
- 8. Reconnecting to EcoStruxure EV Charging Expert web page, page 63
- 9. Configuring charge point operator supervision, page 64
- Managing basic authentication and charge point operator certificates, page 65
- 11. Setting the date and time, page 67
- 12. Setting energy management, page 68
- 13. Installing and configuring the charging stations, page 70
- 14. Relaunching the discovery process, page 80
- 15. Updating the charging station settings, page 81
- 16. Finishing the installation of the selected charging stations, page 82
- 17. Configuring power meters, page 83
- 18. Creating zones and sub-zones, page 85
- 19. Assigning charging stations, page 87
- 20. Configuring time of use and digital inputs, page 89
- 21. Managing authentication, page 92
- 22. Finalizing the commissioning, page 94
- 23. Saving and exporting configuration, page 95

System Architecture 2

What's in This Chapter

System Architecture 2: Presentation	37
System Architecture 2: Commissioning Procedure	38
System Architecture 2: Presentation

The main characteristics of system architecture 2 are the following:

- Compatible with EcoStruxure EV Charging Expert 6
- · Load management system mode: dynamic
- DHCP server hosted by EcoStruxure EV Charging Expert
- Digital network: star or daisy chain using managed switches
- No supervision: EV infrastructure operated locally by the customer via EcoStruxure EV Charging Expert, including authentication and RFID badges
- Greenfield architecture



System architecture 2 can be implemented for the following model of charging stations:

Charging station	Minimum version
EVlink Pro AC	1.3.8

NOTE: For EVlink Pro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

System Architecture 2: Commissioning Procedure

Follow these steps to commission an EV infrastructure using architecture 2.

- 1. Switching on the device and configuring the PC, page 56
- 2. Opening a web browser, page 57
- 3. Checking the installed firmware version, page 57
- 4. Creating an installer account, page 58
- 5. Starting a new configuration, page 59
- 6. Changing EcoStruxure EV Charging Expert settings, page 60
- 7. Rebooting EcoStruxure EV Charging Expert, page 62
- 8. Reconnecting to EcoStruxure EV Charging Expert web page, page 63
- 9. Setting the date and time, page 67
- 10. Setting energy management, page 68
- **11.** Installing and configuring the charging stations, page 70
- 12. Relaunching the discovery process, page 80
- 13. Updating the charging station settings, page 81
- 14. Finishing the installation of the selected charging stations, page 82
- 15. Configuring power meters, page 83
- 16. Creating zones and sub-zones, page 85
- 17. Assigning charging stations, page 87
- 18. Configuring time of use and digital inputs, page 89
- 19. Managing authentication, page 92
- 20. Finalizing the commissioning, page 94
- 21. Saving and exporting configuration, page 95

System Architecture 3

What's in This Chapter

System Architecture 3: Presentation	40
System Architecture 3: Commissioning Procedure	41

System Architecture 3: Presentation

The main characteristics of system architecture 3 are the following:

- Compatible with EcoStruxure EV Charging Expert 6
- Load management system mode: dynamic
- DHCP server hosted by 4G cellular modem, internet connectivity provided via the SIM card supplied by the charge point operator
- Digital network: star or daisy chain using managed switches
- · EV infrastructure operated by an external charging point operator
- Greenfield architecture



System architecture 3 can be implemented for the following models of charging stations:

Charging station	Minimum version
Schneider Charge Pro	1.18.1
EVlink Pro AC	1.3.8

IMPORTANT: If there is a common EcoStruxure EV Charging Expert supervising the stations, it is not possible to install Schneider Charge Pro charging stations and EVlinkPro AC charging stations in the same EV infrastructure.

NOTE: For EVlink Pro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

System Architecture 3: Commissioning Procedure

Follow these steps to commission an EV infrastructure using architecture 3.

- 1. Configuring the 4G cellular modem with DHCP, page 50
- 2. Switching on the device and configuring the PC, page 56
- 3. Opening a web browser, page 57
- 4. Checking the installed firmware version, page 57
- 5. Creating an installer account, page 58
- 6. Starting a new configuration, page 59
- 7. Changing EcoStruxure EV Charging Expert settings, page 60
- 8. Rebooting EcoStruxure EV Charging Expert, page 62
- 9. Reconnecting to EcoStruxure EV Charging Expert web page, page 63
- 10. Configuring charge point operator supervision, page 64
- Managing basic authentication and charge point operator certificates, page 65
- 12. Setting the date and time, page 67
- 13. Setting energy management, page 68
- 14. Installing and configuring the charging stations, page 70
- 15. Relaunching the discovery process, page 80
- 16. Updating the charging station settings, page 81
- 17. Finishing the installation of the selected charging stations, page 82
- 18. Configuring power meters, page 83
- 19. Creating zones and sub-zones, page 85
- 20. Assigning charging stations, page 87
- 21. Configuring time of use and digital inputs, page 89
- 22. Managing authentication, page 92
- 23. Finalizing the commissioning, page 94
- 24. Saving and exporting configuration, page 95

System Architecture 4

What's in This Chapter

System Architecture 4: Presentation	43
System Architecture 4: Commissioning Procedure	44

System Architecture 4: Presentation

The main characteristics of system architecture 4 are the following:

- EcoStruxure EV Charging Expert is not used
- DHCP server hosted by 4G cellular modem, internet connectivity provided via the SIM card supplied by the charge point operator
- · Digital network: star or daisy chain using managed switches
- · EV infrastructure operated by an external charging point operator
- Greenfield architecture



System architecture 4 can be implemented for the following models of charging stations:

Charging station	Minimum version
Schneider Charge Pro	1.18.1
EVlink Pro AC	1.3.8

NOTE: If there is a common EcoStruxure EV Charging Expert supervising the stations, it is not possible to install Schneider Charge Pro charging stations and EVlink Pro AC charging stations in the same EV infrastructure.

NOTE: For EVlink Pro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

System Architecture 4: Commissioning Procedure

Follow these steps to commission an EV infrastructure using architecture 4.

- 1. Configuring the 4G cellular modem with DHCP, page 50
- 2. Commissioning EVlink Pro AC Charging Stations One by One by Using eSetup Application, page 96
- **3.** Commissioning Schneider Charge Pro Charging Stations One by One by Using eSetup Application, page 97

System Architecture 5

What's in This Chapter

System Architecture 5: Presentation	46
System Architecture 5: Commissioning Procedure	47

System Architecture 5: Presentation

The main characteristics of system architecture 5 are the following:

- Compatible with EcoStruxure EV Charging Expert 6
- · Load management system mode: dynamic
- No DHCP server
- Internet connectivity limited to the local charging station management system
- Digital network: star or daisy chain using managed switches and 4G cellular modem
- EV infrastructure operated by a charging point operator

· Greenfield architecture



System architecture 5 can be implemented for the following models of charging stations:

Charging station	Minimum version
Schneider Charge Pro	1.18.1
EVlink Pro AC	1.3.8

IMPORTANT: If there is a common EcoStruxure EV Charging Expert supervising the stations, it is not possible to install Schneider Charge Pro charging stations and EVlink Pro AC charging stations in the same EV infrastructure.

NOTE: For EVlink Pro DC charging station and for Schneider Electric legacy ranges of charging stations, contact your local front office.

System Architecture 5: Commissioning Procedure

Follow these steps to commission an EV infrastructure using architecture 5.

- 1. Configuring the 4G cellular modem without DHCP, page 54
- 2. Switching on the device and configuring the PC, page 56
- 3. Opening a web browser, page 57
- 4. Checking the installed firmware version, page 57
- 5. Creating an installer account, page 58
- 6. Starting a new configuration, page 59
- 7. Changing EcoStruxure EV Charging Expert settings, page 60
- 8. Rebooting EcoStruxure EV Charging Expert, page 62
- 9. Reconnecting to EcoStruxure EV Charging Expert web page, page 63
- 10. Configuring charge point operator supervision, page 64
- Managing basic authentication and charge point operator certificates, page 65
- 12. Setting the date and time, page 67
- 13. Setting energy management, page 68
- 14. Installing and configuring the charging stations one by one, page 79
- 15. Relaunching the discovery process, page 80
- 16. Updating the charging station settings, page 81
- 17. Finishing the installation of the selected charging stations, page 82
- 18. Configuring power meters, page 83
- 19. Creating zones and sub-zones, page 85
- 20. Assigning charging stations, page 87
- 21. Configuring time of use and digital inputs, page 89
- 22. Managing authentication, page 92
- 23. Finalizing the commissioning, page 94
- 24. Saving and exporting configuration, page 95

Procedures

What's in This Chapter

Introduction	49
Configuring the 4G Cellular Modem with DHCP	50
Configuring the 4G Cellular Modem without DHCP	54
Configuring the PC to connect to EcoStruxure EV Charging Expert	56
Connecting to EcoStruxure EV Charging Expert	57
Checking the Installed Firmware Version	57
Creating an Installer Account	58
Starting a New Configuration	59
Updating Network Settings	60
Rebooting EcoStruxure EV Charging Expert	62
Reconnecting to EcoStruxure EV Charging Expert Web Page	63
Configuring Charge Point Operator Supervision	64
Managing Basic Authentication and Charge Point Operator Certificates	65
Setting the Date and Time	67
Setting Energy Management	68
Installing and Configuring the Charging Stations	70
If installing EVlink Pro AC or Schneider Charge Pro, One by One	79
Relaunching the Discovery Process	80
Updating the Charging Station Settings	81
Finishing the Installation of the Selected Charging Stations	82
Configuring Power Meters	83
Creating Zones and Sub-Zones	85
Assigning Charging Stations	87
Configuring Time of Use and Digital Inputs	89
Managing Authentication	92
Finalizing the Commissioning	94
Saving and Exporting Configuration	95
Commissioning EVlink Pro AC Charging Stations One by One by Using	
eSetup Application	96
Commissioning Schneider Charge Pro Charging Stations One by One by	
Using eSetup Application	97

Introduction

This part explains all the individual commissioning steps for the five system architectures.

Configuring the 4G Cellular Modem with DHCP

Prerequisites

Before starting the configuration of the EVP3MM 4G cellular modem:

1. Locate the SIM card slot marked SIM on the side of the 4G cellular modem.



- 2. Push the SIM card into the slot until it snaps into place.
- 3. Connect to the network according to the IT connectivity map.
- 4. Open a web browser.
- 5. Type https://192.168.0.254/ in the URL field.
- 6. Select the Advanced button to authorize the non-secure connection.
- 7. Select Proceed to 192.168.0.254.
- 8. On the login page, enter the following:
 - Username: admin
 - Password: EVlink4EV!



Configuration Procedure

Download the latest firmware of your device from the factory website.

To configure the 4G cellular modem:

1. In the left panel, select Administration > Firmware Upgrade.

- 2. Browse the downloaded binary and select it.
- 3. Select Start Upgrade.

Schneider Gelectric	mPower™ Edge Intelligence rCell - Intelligent Cellular Router MTRLUU/ Firmwer 52551	admin as administrator 🗗
Home Save and Apply		
Setup	Firmware Upgrade	
Cellular	Choose Firmware Upgrade File No file selected	
Firewall		
SMS	Start Upgrade	
Tunnels		
Administration		
User Accounts		
Self Diagnostics (beta)		
Access Configuration		
RADIUS Configuration		
X.509 Certificate		
X 509 CA Certificates		
Remote Management		
Notifications		
Web UI Customization		
Firmware Upgrade		
Save/Restore		
Debug Options		
Usage Policy		
Support		
Status & Logs		

Upgrade can take up to 10 minutes. When upgrade is complete, the modem reboots automatically.

4. Check on the following screen that the cellular radio firmware is updated.

	mPower™ Edge Ir MTRLEU7 Firmware 6.	ntelligence rCell - Intelligent Cellu 0.0	lar Router	
Home	DEVICE INFORMA	TION		
ave and Apply	DEVICE IN ORTH			
Setup	Device		LAN	
Cellular	Model Number	MTR-LEU7	Bridge	(br0)
	Serial Number	20954460	MAC Address	00.08.00.80.30.90
Firewall	IMEI	862869030200443	IPv4 Address	192.168.0.254
SMS	Firmware	6.0.0	Mask	255 255 255 0
	Current Time	09/01/2021 12:03:54	DHCP State	Disabled
unnels.	Up Time	00.04:35	Lease Range	192.168.0.100-192.168.0.254
Administration	WAN Transport	Cellular	Interfaces	eth0
	Current DNS	130.244.127.161, 130.244.127.169		
itatus & Logs			Ethernet	(eth0)
commands	WAN		Bridge MAC Address	br0 00.08-00-80-30-90
pps	Cellular	(ppp0)		
	State	PPP Link is up		
eip	Connection Mode	PPP		
	Cellular Mode	LTE		
	Mode	PPP		
	Signal	al.		
	Connected	00:00:58		
	IPv4 Address	10.165.32.95		
	DNS	130.244.127.161, 130.244.127.169		
	Roaming	Yes		
	Phone Number			
	Tower	BAC40B		

- 5. In the left panel, select **Cellular > Cellular Configuration**.
- 6. In General Configuration, set the Mode to PPP.

Schneider Blectric	mPower™ Edge Intelligence MTR-LEU7 Firmware 5.3.6s-s1	rCell - Intelligent Cellular Router
Home Save and Apply	CELLULAR CONFIGURATION	0
Setup	General Configuration	
Cellular	✓ Enabled	Mode
Cellular Configuration	Connect Timeout	Dial-On-Demand
Wake Up On Call	90	
Radio Status	Dialing Max Retries	
Radio Firmware Upgrade	0 Cellular Mode	
Firewall	Auto ~	
SMS	Packet Size Settings	
Tunnels	MTU 1500	MRU 1500
Administration		

7. In Modem Configuration, from Cellular > Cellular Configuration > Modem Configuration, set the APN to mbb.mobi-data.com.

Dial Number	Init String 1
*99***1#	AT+CSQ
Connect String	Init String 2
CONNECT	
Dial Prefix	Init String 3
ATDT	
SIM Pin	Init String 4
DDD Os start Made	
PDP Context Mode	
Auto ~	
APN	

8. In Authentication, from Cellular > Cellular Configuration > Authentication, set the Authentication Type to NONE.

Authentication		
Authentication Type		
NONE	~	

9. Select the **Submit** button at the bottom left of the screen.

Data Receive Monitor		
✓ Enabled		
Window (minutes)		
60		
Network Registration Reset Timeout		
Enabled		
Timeout (minutes)		
120		
Current SIM		
IMSI	MCC/MNC	
525053099500468	52505	
Submit		Reset To Default

10. In the left panel, select Save and Apply.

Schneider Electric	mPower™ Edge Intelligence rCell MTR-LEU7 Firmware 5.3.6s-s1	- Intelligent Cellular Router
Home		
Save and Apply	CELEDEAN CONTIGUNATION	
Setup	General Configuration	
Cellular	✓ Enabled	Mode PPP ~~~~
Cellular Configuration	Connect Timeout	Dial-On-Demand
Wake Up On Call	90	
Radio Status	Dialing Max Retries	
Radio Firmware Upgrade	0 Cellular Mode	
Firewall	Auto 🧹	
SMS	Packet Size Settings	
Tunnels	MTU 1500	1500
Administration		

11. Select **OK** to apply the changes. The 4G cellular modem reboots.

Checking the Configuration

To check the configuration of the 4G cellular modem:

1. On the **Home** page, in the **WAN** section, check that the **State** is the following: **PPP Link is up**.

Flectric MTRUEV	Edge Intelligence rCell - Intelligent Firmware 53.69-91	Cellular Router	
and Apply	NFORMATION		
Device		LAN	
Model No	umber MTR-LEU7	Bridge	(br0)
Serial Nu	mber 20954460	MAC Address	00.08.00.8D.30.9D
all IMEI	862869030200443	IPv4 Address	192 168 0 254
Firmware	5.3.6s-s1	Mask	255 255 255 0
Current T	ime 08/17/2022 12:20:38	DHCP State	Disabled
els Up Time	00:05:31	Lease Range	192 168 0 100-192 168 0 25
WAN Tra	nsport Cellular	Interfaces	eth0
Current D	NS 8.8.4.4, 8.8.8.8		
us & Logs		Ethernet	(eth0)
mande		Bridge	br0
WAN		MAC Address	00:08:00:8D:30:9D
S Cellular	(ppp0)		
State	PPP Link is up		
Connec	tion Mode PPP		
Cellular	Mode 3G		
Mode	PPP		
Signal	.1		
RSCP	-92 dBm		
Ec/lo	-11 dB		
Connec	ted 00:01:20		
IPv4 Ad	dress 10.230.205.167		
DNS	8.8.4.4, 8.8.8.8		
Roamin	g Yes		
Phone M	Number		
Tower	601D866		

2. Check that the CD green LED on the 4G cellular modem is on.



- 3. Check that DHCP server is set up according to the customer IT inputs (in the correct address ranges) in EcoStruxure EV Charging Expert.
- 4. Check the internet connectivity.

Architecture	Next step	
Architecture 3, page 41	Configuring PC to connect to EcoStruxure EV Charging Expert, page 56	
Architecture 4, page 44 Commissioning EVlink Pro AC charging stations one by one by using eSetup application, page 96		
Refer to Description of System Architectures, page 32.		

Configuring the 4G Cellular Modem without DHCP

If you do not need the DHCP server, you can disable the 4G cellular modem as a DHCP server.

Prerequisites

Before starting the configuration of the EVP3MM 4G cellular modem:

- 1. Locate the SIM card slot marked SIM on the side of the 4G cellular modem.
- 2. Push the SIM card into the slot until it snaps into place.
- 3. Connect to the network according to the IT connectivity map.
- 4. Open a web browser.
- 5. Type https://192.168.0.254/ in the URL field.
- 6. Select the Advanced button.
- 7. Select Proceed to 192.168.0.254.
- 8. On the login page, enter the following:
 - Username: admin
 - Password: EVlink4EV!

Configuration Procedure

To configure the 4G cellular modem:

- 1. In the left panel, select Setup.
- 2. Select the DHCP Configuration tab.
- 3. In the displayed list, identify the DHCP server used.
- 4. In the **Options** column, select the pen to edit the parameters.

Schneider Blectric	mPower™ MTR-LEU7 Fin	Edge Intelli nware 6.0.0	gence rCell - Intell	igent Cellular Rou	ter		
Home							
Save and Apply	DHCP SER	VERS AND	DHCPV6/RA CON	FIGURATION			
Setup	DHCP Cor	figuration +	Add IPv4 DHCP Server	+ Add DHCPv6/RA			
Network Interfaces	IPv4 DHCP S	ervers					
WAN Configuration	Status	Interface	Gateway	Domain	Lease Range Start	Lease Range End	Options
Global DNS	×	br0	192.168.0.1		192.168.0.38	192.168.0.45	1
DDNS Configuration							
DHCP Configuration	DHCPv6 and	Router Advert	sement				
SMTP Configuration	Status	Interface	RA Mode		Lease Time		Options
Serial-IP Configuration	×	br0	STATELESS		01-00-00		# 1
SNMP Configuration							
Time Configuration							
Cellular							
Firewall							
SMS							
Tunnels							
Administration							

5. Deselect the **Enabled** check box.

Schneider Belectric	mPower [™] Edge Intelligence rCell - Intellig MTR-LEU7 Firmware 6.0.0	ent Cellular Router	
Home	DHCP CONFIGURATION (2)		
Save and Apply	1 Add Dut DUCD Configuration + Add Dut DUCD Server	L Add DLICDu67DA Cdit IDu6 DLICD Sector	
Setup	ap once configuration - + Aud invertible Server		
Network Interfaces	DHCP		
WAN Configuration	Enabled		
Global DNS	Interface	Subnet 192.168.0.0	
DDNS Configuration	Gateway	Mask	
DHCP Configuration	192.168.0.1		
SMTP Configuration	Domain	Lease time (dd-hh-mm)	
Serial-IP Configuration	Lasea Panna Start	01-00-00	
SNMP Configuration	192.168.0.38	192.168.0.45	
Time Configuration			
Cellular	🖌 Submit		
Firewall	Current Leases		
SMS	Name MAC Address	IP Address Expiration	n Options
Tunnels		No matching records	
Administration	Fixed Addresses 🕥		

On the Home screen, the DHCP State indicates Disabled.

Schneider GElectric	mPower™ Edge II MTR-LEU7 Firmware 6	ntelligence rCell - Intelligent Ce	ellular Router		
Home		17:01			
Save and Apply	DEVICE INFORMA	ATION			
Setup	Device		LAN		
Cellular	Model Number	MTR-LEU7	Bridge	(br0)	
	Serial Number	21397002	MAC Address	00:08:00:8D:87:9E	
Firewall	IMEI	862869030368612	IPv4 Address	192.168.0.250	
SMS	Firmware	6.0.0	Mask	255 255 255 0	
	Current Time	02/07/2025 07:59:15	DHCP State	Disabled	
Tunnels	Up Time	00:35:56	Lease Range	192.108.0.38-192.108.0.45	
Administration	WAN Transport	None	Interfaces	eth0	
	Current DNS	Not Acquired			
Status & Logs			Ethernet	(eth0)	
Commands	WAN		Bridge MAC Address	br0	
Apps	Cellular	(0999)	mno nutress	00.00.00.07.92	
	State	Wait modern			
Help	Connection Mode	PPP			
	Cellular Mode				
	Mode	PPP			
	Signal	al			
	Connected	00:00:00			
	IPv4 Address	Not Acquired			
	DNS				

Architecture	Next step	
Architecture 5, page 47	Configuring PC to connect to EcoStruxure EV Charging Expert, page 56	
Refer to Description of System Architectures, page 32.		

Configuring the PC to connect to EcoStruxure EV Charging Expert

- 1. Connect your PC to the EcoStruxure EV Charging Expert Ethernet network.
- 2. Open the local network properties menu on your PC.
- 3. Open the Internet protocol TCP/IP v4 properties.
- 4. Set the static IP address properties as follows:
 - IP address: 192.168.0.x (where x is a number between 50 and 100)
 - Subnet mask: 255.255.255.0
 - No default gateway
 - No DNS server
 - No proxy

Architecture	Next step	
Architecture 1, page 35	Connecting to EcoStruxure EV Charging Expert, page 57	
Architecture 2, page 38	Connecting to EcoStruxure EV Charging Expert, page 57	
Architecture 3, page 41	Connecting to EcoStruxure EV Charging Expert, page 57	
Architecture 4, page 44	Connecting to EcoStruxure EV Charging Expert, page 57	
Architecture 5, page 47	Connecting to EcoStruxure EV Charging Expert, page 57	
Refer to Description of System Architectures, page 32.		

Connecting to EcoStruxure EV Charging Expert

- 1. Open a web browser.
- 2. Type **192.168.0.128** in the URL field.

NOTE: A message may be displayed. If this occurs:

- 1. Select the Advanced button to authorize the non-secure connection.
- 2. Select Proceed to 192.168.0.128 (unsafe).

Architecture	Next step		
Architecture 1, page 35	Checking the installed firmware version, page 57		
Architecture 2, page 38	Checking the installed firmware version, page 57		
Architecture 3, page 41	Checking the installed firmware version, page 57		
Architecture 4, page 44	Checking the installed firmware version, page 57		
Architecture 5, page 47	Checking the installed firmware version, page 57		
Refer to Description of System Architectures, page 32.			

Checking the Installed Firmware Version

- 1. Check the installed firmware version for:
 - EcoStruxure EV Charging Expert
 - the charging stations (supported baseline)

Use the latest release note of EcoStruxure EV Charging Expert and of the charging station that are available on se.com.

2. If necessary, select **Update Firmware** to download the latest EcoStruxure EV Charging Expert firmware available from www.se.com.



Architecture	Next step		
Architecture 1, page 35	Creating an installer account, page 58		
Architecture 2, page 38	Creating an installer account, page 58		
Architecture 3, page 41	Creating an installer account, page 58		
Architecture 4, page 44	Creating an installer account, page 58		
Architecture 5, page 47	Creating an installer account, page 58		
Refer to Description of System Architectures, page 32.			

Creating an Installer Account

The Credentials screen is the following.

Ev Draging Expert						? 🛆 default_user 👻	Schneider
1 Credentials (2) Network (3) Remote Supervision	(4) Station	s (5) Power Meter	6 Zones	7 Stations Assignment	8 Energy Management	9 Authentication	10 RFID Cards
	Set Log	gin Credential	s				í
	To avoid unauth password for an	orized access to this configuration administrator and a first user.	interface, please def	ine username and			
	Administra	ator					
	The administrate complete the init	or has access to all configuration f tial configuration before users can	or this EV Charging E access the interface.	Expert and needs to			
	Username	You should not use Root, Admin or A as they are easy to guess	dministrator,				
	Password	Your password must satisfy the follow conditions at least 12 characters long characters uppercase characters num characters (@\$%78)	wing lowercase bers special				
	Repeat Password) ar				
	I securely s	tored these credentials. A factory	reset is the only opti	ion if they get lost			
	First User						
	After initial confi Please create on	guration, users can monitor the in e first user here, you can add mor	stallation's status, ar e users later.	nd manage badges.			
Previous							Save and Next

Create an administrator profile and a user profile:

- Administrator: has access to all configuration for EcoStruxure EV Charging Expert and needs to complete the initial configuration before users can access the interface.
- Users: after initial configuration, users can monitor the installation status, and manage badges.

Fill in the following fields:

- **Username**: do not use Root, Admin or Administrator, as they are easy to guess.
- Password: the password must satisfy the required conditions.
- Check box to indicate that you securely stored these credentials. A factory reset is the only option if they get lost.

Architecture Next step				
Architecture 1, page 35	Starting a new configuration, page 59			
Architecture 2, page 38	Starting a new configuration, page 59			
Architecture 3, page 41	Starting a new configuration, page 59			
Architecture 4, page 44	Starting a new configuration, page 59			
Architecture 5, page 47	Starting a new configuration, page 59			
Refer to Description of System Architectures, page 32.				

Starting a New Configuration

To configure EV Charging Expert:

1. Select the wizard **Start Configuration**.



2. Follow the indicated procedure.

Architecture	Next step			
Architecture 1, page 35	Updating network settings, page 60			
Architecture 2, page 38	Updating network settings, page 60			
Architecture 3, page 41	Updating network settings, page 60			
Architecture 4, page 44	Updating network settings, page 60			
Architecture 5, page 47	Updating network settings, page 60			
Refer to Description of System Architectures, page 32.				

Updating Network Settings

The Network screen is the following.

Evo@trueve EV Charging Expert My EVCE device @ Pending intervention on site	Activate Secure boot	emo mode		? & I	ohn Doe - Schneider
Network O Remote Supervision O Date & Time	(4) Stations	5 Power Meter	6 Zones	(7) Stations Assignment	8 Energy Management
Network					
Device Name Name	My EVCE device				
Network Configuration ①	192 168 0 128	1			
Subnet Mask	255 . 255 . 255 . 0				
Default Gateway	<u>192</u> . <u>168</u> . <u>0</u> . <u>254</u>				
Preferred DNS Server	8.8.8.8				
Alternate DNS Server					
DHCP Server Configuration ①		•			
Activate the DHCP server	OFF ON				
Previous					Revert Save and Next

Update network settings (for example, IP, DNS) according to the information given by the IT manager of the customer site:

- Device Name
- Network Configuration:
 - IP Address
 - Subnet Mask
 - Default Gateway
 - Preferred DNS Server
 - Alternate DNS Server

See IT plan and network information, page 26.

Factory settings are the following:

Fields	Factory setting	Description
Device Name	My EVCE device	Your EcoStruxure EV Charging Expert device
IP Address	192.168.0.128	Network IP address
Subnet Mask	255.255.255.0	Network sub-network mask
Default Gateway ⁽¹⁾	192.168.0.254	Gateway IP address. Mandatory to connect two networks so that devices on one network can communicate with the devices of another network.
Preferred DNS Server ⁽²⁾	8.8.8.8	Preferred DNS server IP address ⁽²⁾
Alternate DNS Server	-	Other DNS server IP address ⁽²⁾
DHCP Server Configuration	OFF	ON/OFF When DHCP server is managed by customer, DHCP server remains OFF .

(1) Address of the modem used for the connection to the supervision, if any. All charging stations are on the same sub-network as EcoStruxure EV Charging Expert and must be configured with the same gateway IP address.

(2) DNS server is used to convert URL to IP address. May be provided by the remote supervision (for example, through a dedicated SIM card). Google is the DNS server by default.

When you have finished updating network settings, select Save and Next.

Architecture	Next step
Architecture 1, page 35	Rebooting EcoStruxure EV Charging Expert, page 62
Architecture 2, page 38	Rebooting EcoStruxure EV Charging Expert, page 62

Architecture	Next step			
Architecture 3, page 41	Rebooting EcoStruxure EV Charging Expert, page 62			
Architecture 4, page 44	Rebooting EcoStruxure EV Charging Expert, page 62			
Architecture 5, page 47	Rebooting EcoStruxure EV Charging Expert, page 62			
Refer to Description of System Architectures, page 32.				

Rebooting EcoStruxure EV Charging Expert

If you have changed the network mask, configure the PC again. See *Switching on the Device and Configuring the PC*, page 56.

If you have not changed the network mask, you can proceed with the next step.

Architecture Next step				
Architecture 1, page 35	Reconnecting to EcoStruxure EV Charging Expert web page, page 63			
Architecture 2, page 38	Reconnecting to EcoStruxure EV Charging Expert web page, page 63			
Architecture 3, page 41	Reconnecting to EcoStruxure EV Charging Expert web page, page 63			
Architecture 4, page 44	Reconnecting to EcoStruxure EV Charging Expert web page, page 63			
Architecture 5, page 47	Reconnecting to EcoStruxure EV Charging Expert web page, page 63			
Refer to Description of System Architectures, page 32.				

Reconnecting to EcoStruxure EV Charging Expert Web Page

Reconnect to EcoStruxure EV Charging Expert web page using the new IP address.

Architecture	Next step		
Architecture 1, page 35	Configuring charge point operator supervision, page 64		
Architecture 2, page 38	Setting the date and time, page 67		
Architecture 3, page 41	Configuring charge point operator supervision, page 64		
Architecture 4, page 44	Setting the date and time, page 67		
Architecture 5, page 47	Configuring charge point operator supervision, page 64		
Refer to Description of System Architectures, page 32.			

Configuring Charge Point Operator Supervision

To configure charge point operator supervision:

- 1. Enable the supervision.
- 2. Enter the supervision URL.
- 3. Test the connection.

Ev Charging Expert My EVCE device	Pending intervention on site	C Activate Secure boot Demo m	ode			2 20 John Doe - Schneider
Network O Remote Supervis	sion 3 Date & Time	(4) Energy Management	5 Stations	6 Power Meter	7 Zones	(8) Stations Assignment
▲ Please make sure that the stat	tions are powered on!					×
Remote Supervision Configuration						
Enable	0	OFF ON				
Remote Supervision URL Address	2	wss://mycpo.com/ocpp				
Advanced Configuration						
Websocket Ping Interval		16				
Message timeout		10				
Forward security event to CPO		OFF ON				
Test Connection 3						
OFF 🚺 ON ()						
wss://mycpo.com/ocpp	0					
	\ \ /b	on the connection	, ototuo io	oonfirmed a gree	on tick in die	played payt to the

When the connection status is confirmed, a green tick is displayed next to the **Remote Supervision URL Address**.



4. Click Save and Next.

IMPORTANT: When remote supervision option is enabled:

- It is the responsibility of the remote supervision system to handle EV driver authentication and to consider charging station specific keys for authentication management.
- The date and time are provided by remote supervision, but it is necessary to configure time zone.

Architecture	Next step		
Architecture 1, page 35	Managing basic authentication and charge point operator certificates, page 65		
Architecture 3, page 41	Managing basic authentication and charge point operator certificates, page 65		
Architecture 4, page 44	Managing basic authentication and charge point operator certificates, page 65		
Architecture 5, page 47	Managing basic authentication and charge point operator certificates, page 65		
Refer to Description of System Architectures, page 32.			

Managing Basic Authentication and Charge Point Operator Certificates

Managing Basic Authentication

To help secure communication between EcoStruxure EV Charging Expert and supervision, add a basic authentication password for all charging stations. There are two options:

- One unique password for each charging station:
 - 1. Select each charging station on the installation page.
 - 2. Select Change password.
- Same password for all charging stations: when this option is selected, a popup appears to add a basic authentication key according to two formats (ASCII or HEXA format). The password is used for all charging stations. It can be changed later by supervision through OCPP commands.

	Charging Expert Demom	ode				?	2 So John Doe 👻	Schneider
CHARGIN	IG STATIONS ADMIN -							
Search	Serial Number, Name, Boxi	dentity 🔍 🛛 🖓 More	Filters - 41 Stations Dete	ected 🕖			 Discover 	all Selected
	Status	Model	Station Name	IP Address	Connectors	Box Identity	Zones	
	41 Charging Stations Recovere	d						~
	Installed	Schneider Electric EVlink Pr SN: EVB1A22P4ERI3N1701	Station 04	DHCP	∯1 _ ▼	S04	1st Floor - North	^
Vendo Serial	r Schneider Electric Number EVB1A22P4ERI3N1	70120500100296ARGCS	Authentication group	Managed by the remote super 1.3.10	vision () Or Charging	ange password		
•	Installed	Schneider Electric City SN: EVB1A22P4ERI3N1701	Station 05	DHCP	Ф1 моно23 ~ Ф2 моно23 ~	S05	1st Floor - North	~

Managing Charge Point Operator Supervision Certificates

To manage charge point operator supervision certificates:

- 1. Select ADMIN > Certificates.
- 2. To add or delete certificates, select **Manage Certificates**. For example, you can upload in this bank of certificates a new remote supervision certificate to perform a WebSocket secure connection.

≡	EVCE O Charging Expert EVCE O Companying Expert EVCE O Companying Expert Charging Exper Charging Expert Charging Expert Chargi																
				ADMIN 👻													
Netv	vork	Remote Supervision	Energy Management	Date & Time	Zone Manag	gement	Power Meters	Time of use	Digital Ir	iput Certi	ficates	Firmwares	Advanced				
Cer	Certificates Manage Certificates OCPP & Webserver certificates																
														🖀 Delete	🛃 Download	-Add	
		ld o	Name		\uparrow	Subjet			0	Expires on			¢				
		1	Amazon_Root_CA_1			C = US, C	D = Amazon, CN :	= Amazon Root C	A 1	17/01/2038					built-in		
		2	GlobalSign_Root_CA	à.		C = BE, C) = GlobalSign nv	r-sa. OU = Root C	A. C	28/01/2028					> built-in		
		3	QuoVadis_Root_CA_	_1_G3		C = BM, 0	O = QuoVadis Lin	nited. CN = QuoV	adis	12/01/2042					> built-in		
		4	CFCA_EV_ROOT			C = CN, 0	O = China Financi	al Certification A	utho	31/12/2029					> built-in		
		5	DigiCert_Global_Roo	ot_CA		C = US, C	D = DigiCert Inc. 0	DU = www.digioe	rt.co	10/11/2031					> built-in		
		6	DigiCert_Global_Roo	ot_G2		C = US. 0	D = DigiCert Inc. 0	DU = www.digioe	rt.co	15/01/2038					> built-in		
		7	Entrust_Root_Certifi	cation_Authority_	EC1	C = US. 0	D = "Entrust. Inc."	. OU = See www	.entr	18/12/2037					> built-in		
		8	COMODO_RSA_Cer	tification_Authori	v	C = GB, 5	ST = Greater Man	chester, L = Salfo	ord,	19/01/2038					> built-in		

Architecture	Next step
Architecture 1, page 35	Setting the date and time, page 67
Architecture 3, page 41	Setting the date and time, page 67
Architecture 4, page 44	Setting the date and time, page 67

Architecture	Next step			
Architecture 5, page 47	Setting the date and time, page 67			
Refer to Description of System Architectures, page 32.				

Setting the Date and Time

- 1. Select your time zone.
- 2. Synchronize date and time of your installation.

Eco Ø russer EV Charging Expert My EVCE device Ø Pending intervention on site	C Activate Secure boot Demo mode		1	? 🖧 John Doe 👻	Schneider
Network Semote Supervision Date & Time	(4) Energy Management (5) Stations	6 Power Meter	7 Zones	(8) Station	ns Assignment
Date and Time Settings					
Timezone Synchronize Data/Time with Supervision	Europe/Paris • OFF ON				

3. Select Save and Next.

4. To enable the wizard that guides you through the settings, click Next.

Architecture	Next step			
Architecture 1, page 35	Setting energy management, page 68			
Architecture 2, page 38	Setting energy management, page 68			
Architecture 3, page 41	Setting energy management, page 68			
Architecture 4, page 44	Setting energy management, page 68			
Architecture 5, page 47	Setting energy management, page 68			
Refer to Description of System Architectures, page 32.				

Setting Energy Management

The following screen is displayed.

	Ev Charging Expert My EVCE device O Pending intervention on st	e C Activate Secure boot Demo mode	?	Bo John Doe - Schneider
	📀 Network 🛛 🔗 Remote Supervision 🛁 🥑 Date & Time	e (4) Energy Management (5) Stations	6 Power Meter 7 Zones	(8) Stations Assignment
	Energy Management			
	Charging Stations Default Configuration			
<u>A</u> –	Minimum current setpoint for an electrical vehicle to charge.	 IEC 61851 (6A Single- and Three-phase) EV/ZE Ready (8A Single-phase/14A Three-phase) 		
(B)—	Load Shedding Priority	Energy *		
\sim	Consumption Optimisation Configuration			
_	Activation	OFF 💽 ON		
റ–റ	Setpoint reduction trigger value *	10		
S	Reduction efficiency value *	10		
	Minimal gap with EV consumption *	10		
~	Allow Suspended by System			
D)—	Activation	OFF ON		
9	Wake-up EV interval (in seconds) *	10		
	Electrical grid			
	Enable IT network	TN/TT network 🚺 IT network EU 🛆		
	Previous			Save and Restart

- A. Minimum current setpoint for an electrical vehicle to charge
- B. Load Shedding Priority
- C. Consumption Optimisation Configuration
- D. Allow Suspended by System

Setting	Value	Description		
Minimum current setpoint for an	IEC 61851	6 A in both single and 3-phases connection		
electrical vehicle to charge	EV/ZE ready	8 A in single-phase, 14 A in 3-phase connection		
Load Shedding Priority	Energy (default value)	Proportional to the consumed energy (kWh). This option favors transaction that delivers the lowest amount of energy.		
	Duration	Proportional to the charging time. This option favors transaction that has been charging for the least time.		
Consumption Optimisation Configuration	Setpoint reduction trigger value	Difference between decreasing EV consumption and setpoint before triggering the optimization.		
		Default value: 5 seconds		
		Range: 0.1 s – 10 s		
		There is a warning before changing this parameter.		
	Reduction efficiency value	Gap between the consumption and the new setpoint calculated by the optimization.		
		Default value: 3 seconds		
		Range: 0.1 s – 10 s		
		There is a warning before changing this parameter.		
	Minimal gap with EV consumption	Gap between the increasing EV consumption and the setpoint triggering more power allocation to the charging station.		
		Default value: 1 second		
		Range: 0.1 s – 10 s		
		There is a warning before changing this parameter.		
Allow Suspended by System	Wake-up EV interval defined (in seconds)	When the Allow Suspended by System option is enabled, if a transaction stops consuming energy (current lower than 1 A), EcoStruxure EV Charging Expert stops the transaction and restarts the transaction after a Wake-up EV interval defined (in seconds).		

Energy Management Setting Procedure

- 1. Set the following parameters for EV infrastructure energy management:
 - Minimum Current Setpoint for an Electrical Vehicle to Charge: IEC 61851
 - Load Shedding Priority: Energy
 - Consumption Optimisation Configuration: ON
 - Allow Suspended by System: ON
- 2. Select Save and Restart.

Architecture	Next step			
Architecture 1, page 35	Installing and configuring the charging stations, page 70			
Architecture 2, page 38	Installing and configuring the charging stations, page 70			
Architecture 3, page 41	Installing and configuring the charging stations , page 70			
Architecture 4, page 44	Installing and configuring the charging stations, page 70			
Architecture 5, page 47	If installing EVlink Pro AC or Schneider Charge Pro, page 79			
Refer to Description of System Architectures, page 32.				

Installing and Configuring the Charging Stations

To install and configure AC charging stations, it is recommended to switch on the charging stations in groups of ten.



If some charging stations are not discovered, you may need to update the charging station firmware. If so, follow the procedure that applies to the charging station range:

Procedures to update EVlink Pro AC charging station firmware, page 71
Procedure to update Schneider Charge Pro charging station firmware, page 78

Procedures to Update EVlink Pro AC Charging Station Firmware

Follow one of these methods to update the EVlink Pro AC charging station firmware:

Connecting Schneider Electric cloud with eSetup application, page 71

Manually upgrading the firmware of the charging station with USB key and eSetup application, page 71

Using EcoStruxure EV Charging Expert as temporary HTTP server and eSetup application, page 72

Updating the EVlink Pro AC Firmware by Connecting Schneider Electric Cloud with eSetup Application

Prerequisite: EVlink Pro AC must be connected to the Internet.

To update EVlink Pro AC charging station firmware by connecting Schneider Electric cloud with eSetup application:

1. Get authorization from the IT manager and activate 4G connectivity on your mobile phone.

NOTICE

HAZARD OF OUT OF DATE FIRMWARE

- EVlink Pro AC charging station firmware version must be 1.1.6 or above.
- 4G connectivity must be available during all the firmware upgrade process.

Failure to follow these instructions can result in service interruption.

- 2. Start eSetup application on your smartphone.
- 3. Connect to one EVlink Pro AC charging station with eSetup application.
- 4. Select Schneider Electric.
- 5. Select the last firmware version.
- 6. Select upgrade.
- 7. Reboot the EVlink Pro AC charging station.
- 8. Repeat steps 1 to 7 for each EVlink Pro AC charging station.
 - **NOTE:** This procedure is data consuming and may generate extra operational costs.

Manually Updating the EVlink Pro AC Firmware by Using USB Key and eSetup Application

To update manually the firmware of the EVlink Pro AC charging station with USB key and eSetup application, refer to the video showing how to update EVlink Pro AC firmware:



https://youtu.be/tBzjU5-Kxs8

Updating the EVlink Pro AC Firmware by Using EcoStruxure EV Charging Expert as Temporary HTTP Server and eSetup Application

NOTE: Be aware that this procedure is faster but may generate risk of errors in the URL entries.



- A. Charging Station Management System
- B. Web pages
- C. EcoStruxure EV Charging Expert
- D. Switch
- E. 4G cellular modem
- F. eSetup application
- G. Pro AC charging station
- H. EV

EcoStruxure EV Charging Expert hosts EVlink Pro AC firmware. The eSetup application allows the charging stations to retrieve the firmware through EcoStruxure EV Charging Expert.

EVlink Pro AC firmware is downloaded directly using the LAN network. This prevents data overages if any cellular modem is used. Using this digital process avoids any electrical intervention on the EVlink Pro AC charging station.

Pairing between EVlink Pro AC and eSetup uses Bluetooth®.

When facing a large EV infrastructure with an EcoStruxure EV Charging Expert, it is recommended to rely on EV Charging Expert HTTP server:

- It saves time because there are less steps to upgrade the firmware.
- It saves data because no internet access is required.

For this method, follow the steps to be carried out:

- On EcoStruxure EV Charging Expert, page 73
- On each EVlink Pro AC Charging Station, page 75
On EcoStruxure EV Charging Expert

EcoStruxure EV Charging Expert displays the following message when the firmware needs to be upgraded on a charging station:

Unable to install this station with current version. Upgrade the station's firmware.

🗇 🖉 Eco	Struxure EV Charging × +						~
← → C	O & https:	://192.168.0.156/#/admin/installation					\$ © @ 2
	Prover Charging Expert EVCE 6	0				?	20 user_admin - Schneider
CHARGING	STATIONS RFID CARDS	MANAGEMENT ADMIN +					
Search	Serial Number, Name, Box	kidentity 🔍 🛛 🖓 More	Filters - 2 Stations Deter	cted 🕧			Discover Install Selected
	Status	Model	Station Name	IP Address	Connectors	Box Identity	Zones
	2 Charging Stations Recovered	3			Information		^
	(1) Warning	Schneider Electric EVlink Pro SN: A21332012625		192.168.0.111	Unable to install this station with current version 1.3.6.3. Upgrade the station's firmware to		
		Schneider Electric Evlink Pro		DHCP []	1.3.8 or later.		
	(New station	SN: EVB3S07N4EA000234	PIGAC - 278330714240002	192 . 168 . 0 . 121	ф 2 молоз ~	P10AC * 2783307144EA0002	, v
Installe	ed Station			Add a Station Manually	Ø		
				\oplus			_

To update EVlink Pro AC charging station firmware by using EcoStruxure EV Charging Expert as temporary HTTP server and eSetup application, follow this procedure:

- 1. Download the EVlink Pro AC firmware from www.se.com.
- 2. Enable EV Charging Expert HTTP server in the **Advanced configuration** tab.
- 3. In ADMIN > Firmwares, select Add.
- 4. Set the required fields.
- 5. Upload the EVlink Pro AC firmware file from here: EVlink Pro AC Software and firmware.
- 6. On the pop-up window, select Continue.

7. When the firmware is downloaded, click the QR code symbol **I** to display the URL link.

Charging E NG STATIONS Irk Remote	Expert EVGE 6 C RFID CARDS MANAGEMENT Supervision Energy Management	ADMIN -								7 0	user_admin •	300
NG STATIONS	RFID CARDS MANAGEMENT	ADMIN 👻										
rk Remote	Supervision Energy Management											
		t Date & Time	Power Meters	Zone Management	Time of use	Digital Input	Certificate	Firmwares	Advanced			
nuaree												
invites.												0
											III Doleto	-한] Add
Name												
		↑ Models			Status		٥	Version 0	Hash			¢





8. Scan the QR code using a mobile camera application.



NOTE: When scanning the QR code, you may be asked to confirm the connection to the http URL.

9. Copy the embedded link to paste it later when using eSetup application.

On Each EVlink Pro AC Charging Station

To update EVlink Pro AC charging station firmware by using EcoStruxure EV Charging Expert as temporary HTTP server and eSetup application, follow this procedure:

- 1. Open eSetup commissioning mobile application.
- 2. Pair eSetup with EVlink Pro AC charging station using the Bluetooth channel.
- 3. Select Charging station information.

17:29		🗢 🕪
Back	EVlink Pro AC	्य
())	Identify the charger	
How do you war	t to name the Charge	r ?
evseX1		
Configuration		>
Import configura	ation	>
E	Export configuration	n
Charging statior information	1.3.6.3	(Outdated) >
Charging station status		Available >
Get the	complete diagnosti	c report
Se	e all previous repor	ts

4. Scroll down to the end of the screen to select **Update EVlink Pro AC** *firmware*.

17:29)	🕈 👪
Back	Charging stati	on information
CHARG	ER INFORMATION	
Comme	rcial reference	EVB3S07N4A
Serial n	umber	A21332012625
T2 sock	et type	T2S
RCD Ty	pe	Asi
Power s	upply (xP+N)	1
Internal	meter	no
Protecti	on 6 mA	yes
Embedo	led modem	yes
Firmwar	e version	1.3.6.3 (Outdated)
Product	date & time	2024/12/12 - 17:29
	Update EVlink F	Pro AC firmware

5. Select the following upgrade method: Upgrade from Server Url (Web).



- 6. Paste in the URL.
- 7. Select Upgrade Firmware.

17:29		🗢 🚮
Back	Upgrade from Server U	Jrl (Web)
Your cu	rrent version	
1.3.6.3	3 (Outdated)	Ċ
Your firm	ware is not up to date	
Please be download do not ha	e aware that you need the d the firmware through a pe ave a url, upgrade via cloud	exact URL path to ersonal URL. If you
Please be download do not ha	a ware that you need the d the firmware through a pe ave a url, upgrade via cloud	exact URL path to ersonal URL. If you
Url	aware that you need the the firmware through a pe ave a url, upgrade via cloud	exact URL path to prsonal URL. If you /firmwares/1_e

	J
Upgrade Firmware	

8. Click OK to confirm.





The EVlink Pro AC charging station automatically reboots.

9. Repeat steps 1 to 8 of this procedure with the next EVlink Pro AC charging station.

Architecture	Next step		
Architecture 1, page 35	Relaunching the discovery process, page 80		
Architecture 2, page 38	Relaunching the discovery process, page 80		
Architecture 3, page 41	Relaunching the discovery process, page 80		
Architecture 4, page 44	Relaunching the discovery process, page 80		
Architecture 5, page 47	Relaunching the discovery process, page 80		
Refer to Description of System Architectures, page 32.			

Procedure to Update Schneider Charge Pro Charging Station Firmware

To update Schneider Charge Pro charging station firmware, follow this procedure:

- 1. Open eSetup application on your smartphone.
- 2. Download on your smartphone the latest firmware version available for Schneider Charge Pro charging station.

NOTE: In eSetup firmware settings, activate the **Automatic download** feature to be alerted when a new firmware has been released and is available for your charging stations.

- 3. Connect to the Schneider Charge Pro with eSetup using Wi-Fi.
 - Firmware upgrade is forced.
- 4. Restart the Schneider Charge Pro charging station.

For more information, refer to the video showing how to commission Schneider Charge Pro with eSetup:



https://youtu.be/BGCuxbVv9AU

Architecture	Next step		
Architecture 1, page 35	Relaunching the discovery process, page 80		
Architecture 2, page 38	Relaunching the discovery process, page 80		
Architecture 3, page 41	Relaunching the discovery process, page 80		
Architecture 4, page 44	Relaunching the discovery process, page 80		
Architecture 5, page 47	Relaunching the discovery process, page 80		
Refer to Description of System Architectures, page 32.			

If installing EVIink Pro AC or Schneider Charge Pro, One by One

When internet connectivity is limited, install and configure AC charging stations one by one following the procedure that applies to the charging station range.

Procedures to Update EVlink Pro AC Charging Station Firmware

Follow one of these methods to update the EVlink Pro AC charging station firmware:

- Manually upgrading the firmware of the charging station with USB key and eSetup application, page 71
- Using EcoStruxure EV Charging Expert as temporary HTTP server and eSetup application, page 72

Procedure to Update Schneider Charge Pro Charging Station Firmware

To update Schneider Charge Pro charging station firmware, see the procedure, page 78.

For more information, refer to the video showing how to commission Schneider Charge Pro with eSetup:



https://youtu.be/BGCuxbVv9AU

Architecture	Next step				
Architecture 1, page 35	Relaunching the discovery process, page 80				
Architecture 3, page 41	Relaunching the discovery process, page 80				
Architecture 4, page 44	Relaunching the discovery process, page 80				
Architecture 5, page 47	Relaunching the discovery process, page 80				
Refer to Description of System	Refer to Description of System Architectures, page 32.				

Relaunching the Discovery Process

When all the charging station firmware are updated to the latest version:

- 1. Restart EcoStruxure EV Charging Expert wizard.
- 2. Re-launch the discovery process.

Cred	ntials Vetwork	🔗 Remote Supervis	ion (4) Stations	5 Power Meter	6 Zones	7 Stations Assignm	ent — (8) Energy M	fanagement
earch	Serial Number, Name, BoxIdentity	✓ Q More Filt	ers 2 Stations Detected				-	Discover
	Status	Model	Station Name	IP Address	Connectors	В	ox Identity	

The firmware versions are up to date and all charging stations are discovered.

→ C	⊙ & https://	192.168.0.156/#/admin/installation						•
EcoØtron EV Char	rging Expert EVCE 6	0				?	\mathcal{E}_{b} user_admin	- Schne
ARGING STA	ATIONS REID CARDS M	MANAGEMENT ADMIN •						
earch	Serial Number, Name, Boxk	dentity 🔍 🛛 🖓 Mor	Filters - 4 Stations Deter	cted 🕜			Discover	Install Selec
State	us	Model	Station Name	IP Address	Connectors	Box Identity	Zones	
40	Charging Stations Recovered							
	New station	Schneider Electric EVlink Pro SN: A21341020212	P4-A21341020212	DHCP	∯1 TR312 ~	P4-A21341020212		
9	New station	Schneider Electric EVlink Pro SN: A21332012625	evseX1	DHCP	01 MON01 ~	ProAC - A21332012625		
Vendor	Schneider Electric		Authentication group	Unassigned				
Serial Numb	er A21332012625		Firmware Version	1.3.10.0	VIP Charging			
	New station	Schneider Electric EVUnk Pro SN: A21341020210	ProAC - A21341020210	DHCP 🗹	₿1 MON01 ~	ProAC - A21341020210		
		Schneider Electric EVlink Pro		Add a Station Manually				

Architecture	Next step
Architecture 1, page 35	Updating the charging station settings, page 81
Architecture 2, page 38	Updating the charging station settings, page 81
Architecture 3, page 41	Updating the charging station settings, page 81
Architecture 4, page 44	Updating the charging station settings, page 81
Architecture 5, page 47	Updating the charging station settings, page 81
Refer to Description of Sys	stem Architectures, page 32.

Updating the Charging Station Settings

For the group of charging stations discovered (up to 10), update the following fields.

Fields to be updated	
Charging station name	
Selection of DHCP versus	fixed IP address (for EVlink Pro AC only)
Phase rotation per connec	tor (for all AC charging stations)
Box ID	
VIP charging mode	
Architecture	Next step
Architecture 1, page 35	Finishing the installation of the selected charging stations, page 82
Architecture 2, page 38	Finishing the installation of the selected charging stations, page 82
Architecture 3, page 41	Finishing the installation of the selected charging stations, page 82
Architecture 4, page 44	Finishing the installation of the selected charging stations, page 82
Architecture 5, page 47	Finishing the installation of the selected charging stations, page 82
Refer to Description of Sys	stem Architectures, page 32.

Finishing the Installation of the Selected Charging Stations

- To finish the installation of the selected charging stations:
- 1. Select the charging station(s) for which you want to finish the installation.
- 2. Select Install Selected.

EV Char	re ging Expert My EVCE device O Pending intervention	n on site 🔿 Activate Secure boo	Demo mode		?	සි John Doe 💌	Schneider
Network	🕑 Remote Supervision 🛛 🕑 Date i	k Time 🧼 🌏 Energy Ma	anagement 5 Stations	6 Power Meter	7 Zones	(8) Statio	ons Assignment
Search	Serial Number, Name, BoxIdentity	More Filters 43 Stations	Detected ①				Discover
	(installed Wellbe P3 Eichrecht SN: EVB1A22P4ERI3N17012	Station 02	DHCP	(^A) 1 1723 → (^A) 2 1723 → +2	502	1st Floor - North	^
Vendor	Wallbe	Authentication group	Managed by the remote supervision	0			
Serial Number	EVB1A22P4ERI3N170120500100296ANPSC	Firmware Version	1.0.1	VIP Charging			
×.	Installed Open OCPP Open OCPP SN: EVB1A22P4ERI3N17012	Station 03	DHCP [(¹) 1 (1731 ~ ~ (¹) 2 (1712 ~ ~ +1	S03	1st Floor - North	~
	Installed Schneider Electric EVLink Pro SN: EVB1A22P4ERI3N17012	Station 04	DHCP	₿1 <mark>1131 ▼</mark>	\$04	1st Floor - North	\sim
	Installed Schneider Electric City SN: EVB1A22P4ERI3N17012	Station 05	DHCP []	(³) 2 1723 ▼	\$05	1st Floor - North	\sim
Installed Station	n		Add a Station Manually 🕧				
Previous						Install Selev	ted Ne

3. On the pop-up window; select Close.

EcoStruxure EV Charging Expert installs the charging stations in the system. All the charging stations reboot to finalize their installation in EcoStruxure EV Charging Expert.

4. Repeat step 14 to step 17 for Architecture 1 for each group of 10 charging stations.

Architecture	Next step
Architecture 1, page 35	Configuring power meters, page 83
Architecture 2, page 38	Configuring power meters, page 83
Architecture 3, page 41	Configuring power meters, page 83
Architecture 4, page 44	Configuring power meters, page 83
Architecture 5, page 47	Configuring power meters, page 83
Refer to Description of Sys	stem Architectures, page 32.

Configuring Power Meters

Configure power meters only if you have dynamic zones on the EV infrastructure.

For more information about static and dynamic zones, refer to the video showing how to configure load management parameters:



https://youtu.be/c3FBqzF1Avw

For more information about power meter configuration (reconfiguration or customization), refer to *Charging Stations Commissioning* in DOCA0358EN *EcoStruxure EV Charging Expert User Guide*, page 10.

Link one power meter to each dynamic zone as follows:

1. From the Power Meter menu, select the + sign.

Network Remote Supervision Date a Time Darry Managament Stations Image Power Mater Image Power Pow	Schne		25 John Doe 🔻	?		ver Meter Deleted	🔿 Activate 🥝	ice Pending intervention on site	anare My EVCE devi	Ecolo tru EV Ch
Wanga Power Metter Online Power Metter Models Power Metter Configuration effect the power metters Stats will be used in your druke Status Name Model Metwork Configuration Current (µ) Energy (µ/h) Power (µ/h) Edit	ins Assign) Station	(B) Stat	7 Zones	6 Power Meter	nt 💦 🕑 Stations	Energy Mana	pervision 🛛 🌝 Date & Time	Remote Su	letwork
efter be power meters that will be unde loy our device Status Name Model Methods Configuration Configuration the power (A) Energy (AM) Power (A) Edit +							Meter Configuration	Jefine Power Meter Models Power	ters Manage Power Meters	ver Met
Status Name Model Methods Configuration Current (A) Energy (MM) Power (AV) Edit								ur device	xower meters that will be used in yo	fine the p
+	Delet	Edit	Edit	Power (kW)	Energy (kWh)	Current (A)	Network Configuration	Model	Name	Status
+						1.1				
						+				
							L			

- To define a pre-configured power meter, select Define Power Meter Models.
 NOTE: If you already have pre-configured power meters, go directly to the following step.
- 3. Select Manage Power Meters.



- 4. Select a power meter from the list of proposed models.
- 5. To configure the power meter, fill in the following fields:
 - Name
 - Model
 - IP Address
 - ID Port
 - Slave ID or Name model RTU slaveID if RTU device.
- 6. Select Save.
- 7. Select Next.

Architecture	Next step
Architecture 1, page 35	Creating zones and sub-zones, page 85
Architecture 2, page 38	Creating zones and sub-zones, page 85
Architecture 3, page 41	Creating zones and sub-zones, page 85
Architecture 4, page 44	Creating zones and sub-zones, page 85
Architecture 5, page 47	Creating zones and sub-zones, page 85
Refer to Description of Sys	stem Architectures, page 32.

Creating Zones and Sub-Zones

You can create a maximum of 20 zones and four sub-zones in each zone.

1. To create a zone from **Zones** menu, select the + sign.



- 2. For each created zone, fill in the following fields depending on your **Energy Management Directive (Dynamic / Static)**:
 - Name
 - Maximum Current
 - Degraded Mode Zone Setpoint
 - Associated Power Meter, if any

Degraded mode allows charging stations to continue charging, even in case of communication interruption with EcoStruxure EV Charging Expert. For each charging station connector, an offline maximum current is calculated according to:

- Maximum Current of a static zone
- Degraded Mode Zone Setpoint of a dynamic zone

For a dynamic zone, a **Degraded Mode Zone Setpoint** defines the maximum current always available for EV charging, irrespective of other load in the same electrical zone. Enter a value for **Degraded Mode Zone Setpoint** that allows you to manage charging stations even if EcoStruxure EV Charging Expert loses building consumption information.

For a dynamic zone, offline management is active when communication is lost with the charging station or with the power meter dedicated to this zone.

3. To create a sub-zone in a zone, select the + sign corresponding to this zone.

≡	Exc@transe EV Charging Expert	My EVCE device 🕜 P	lending intervention on site	O Activate Secure boot	Demo mode			?	8₀ John Doe ▼	Schneider
•	Network	Remote Supervision	🕑 Date & Time	C Energy Manage	ement — 🔗 Stations	Power Meb	er 🧭	Zones	(8) Statio	ns Assignment
Zon	e Creation									
Your	limit for the creation of zone	is: 20								
	Name			Maximum Current	Energy Management Dir	ective		Power Meter		
- 4	aze			100	Dynamic	Degraded Mode Zone Setpoint	20	zone 1	Ť	Ť
- 4	azerty			50	Static				Ŧ	Ô

- 4. For each created sub-zone, fill in the following fields:
 - Name
 - Maximum Current
 - Associated Power Meter, if any
- 5. Select Save and Next.

For more information about the creation of zones and sub-zones, refer to the video showing how to configure loads' parameters with EcoStruxure EV Charging Expert & assign chargers to a zone:



https://youtu.be/c3FBqzF1Avw

Architecture	Next step
Architecture 1, page 35	Assigning charging stations, page 87
Architecture 2, page 38	Assigning charging stations, page 87
Architecture 3, page 41	Assigning charging stations, page 87
Architecture 4, page 44	Assigning charging stations, page 87
Architecture 5, page 47	Assigning charging stations, page 87
Refer to Description of Sys	stem Architectures, page 32.

Assigning Charging Stations

To assign charging stations to a zone according to the electrical distribution plan and to the defined EVSE architecture:

- 1. Select the installation wizard.
- 2. In the **Stations Assignment** menu, in the **Unassigned Stations** list, select the charging station you want to assign to a zone.

Ecol transver	Pending intervention on site)	cure boot Demo mode		? Bo John Doe - Schneider
Network Remote Supervision	a 📀 Date & Time 📀 Er	ergy Management 🔗 Stations 🔗 Power	Meter 🛛 🕗 Zones 🛁	8 Stations Assignment
Configuration of stations per zone	All Zones	▼ Fitter chargers ▼		
Unassigned Stations	aze			<u></u>
Device name	Chargers		🕞 Unassign	=> Move Selection To •
□ Station 02 →	Device name	↑ Box ID		•
□ Station 03 🗢		No charger was assigned to this zone yet. Please move the char	rgers from an existing zone	
□ Station 04 👳				
□ Station 05 🗢	azerty > qsd qsd			
□ Station 06 🗢				
□ Station 07 🗢	Chargers		\ominus Unassign	-> Move Selection To *
□ Station 08 🗢	Device name	↑ Box ID		÷
Previous				Save and Finish

3. Move Selection To a created zone.

EV Cha	mere My EVCE devi	ice 🕜 Pending int	ervention on site	boot Demo mode			? 85 John Doe - Sch	neider
Network	🕑 Remote Suj	pervision 🥏	Date & Time 🔗 Energy	Management 💦 🌝 Stations	Power Meter	Zones	Stations Assi	ignment
Configura	ation of stations per zone	e Q. All Zones						
	viewed Chatiana	1					(<u>6</u>)^	*
Unas	=> Move Selectic To		Chargers			🕞 Unassign	-> Move Selection To>	11
	Q Search Devi- aze		Device name		↑ Box ID		÷	н
	qsd Station vie	->		No charger was assigned to this zon	e yet. Please move the chargers from an	existing zone		н
	Station 03	->						
•	Station 04	-0	azerty > qsd qsd					н
	Station 05	-0	Chargers			(Unassign	→ Move Selection To ▼	н
	Station 06	-0						
	Station 07	~	Device name		T BOX ID		<u>^</u>	
	Station 08	÷		No charger was assigned to this zon	e yet. Ptease move the chargers from an	existing zone		
Previous							Save a	and Finish

The Unassigned Stations list is automatically updated.

work	Remote Supervision	🥝 Date & Time 🛛 🕹	Energy Management 💫 🥑 Stations —	Power Meter	Zones	① Stations Ass
figuration of station	ns per zone 🔍 Al	ll Zones	▼			
Unassigned Station	IS we Selection To *	320 320				(B) 3 ^
Device name	÷	Chargers			() Unassign	⊅ Move Selection To., ▼
Station 05	->	Device name				÷
Station 06	-\$	Station 02		502		\ominus \Rightarrow
Station 07	-\$	Station 03		503		$\odot \Rightarrow$
Station 08	\$	Station 04		504		$\Theta \Leftrightarrow \Theta$
Station 09	-0		Station 04			
Station 10	->	aberty > god				
		qsu				

4. When you have assigned all charging stations to a zone, select **Save and Finish**.

For more information about the assignment of charging stations to a zone, refer to the video showing how to configure loads' parameters with EcoStruxure EV Charging Expert & assign chargers to a zone:



https://youtu.be/c3FBqzF1Avw

Architecture	Next step
Architecture 1, page 35	Configuring time of use and digital inputs, page 89
Architecture 2, page 38	Configuring time of use and digital inputs, page 89
Architecture 3, page 41	Configuring time of use and digital inputs, page 89
Architecture 4, page 44	Configuring time of use and digital inputs, page 89
Architecture 5, page 47	Configuring time of use and digital inputs, page 89
Refer to Description of Sys	stem Architectures, page 32.

Configuring Time of Use and Digital Inputs

If needed, the configuration of time of use allows you to reduce the power capacity per zone at set periods of time to fit in with tariff policies.

To assign one or more periods to a zone:

- 1. Select ADMIN > Time of use.
- 2. Select the + sign to create a time-of-use period.

ENCE Volumer EV Charging Expert EVCE O RGING STATIONS RFID CARDS MANAGEMENT ADMIN	Coverging Stateses Office ? &	, user_admin ♥ SCH
work Remote Supervision Energy Management Date & Tir	ime Zone Management Power Meters Time of use Digital Input Certificates Firmwares Advanced	
ne of use Configuration OFF ON Time of use Co	onfiguration Zone where periods apply Summary	
ine the time-of-use periods, their applicable timeslots and the percent	tage of reduction on the maximum current setpoint to apply	
ende Name	Limezots Days	Maximum Set Edit,
OFF ON Periode 2	04:30 10:00 Monday Tuesday Wednesday Thursday Friday Saturday Sunday	60 %
	Start Time End Time Monday Tuesday Wednesday Thursday Friday Saturday Sunday	80 %
OFF ON Periode 1	08.00 14:00 V V V V V	
RecOnsure EV Charging Expert EVCE 0	+	Kuadmin - Schmeid
Englineary EV Charging Expert EVCE RONS STATIONS BID CARDS MANAGEMENT Assam + work Remde Supervision Energy Management Date & Tim	Coverging Stations Office P So une Zone Hanagement Power Hetters Time of Lose Dagdal Papet Catificates Rimmeares Advacade	sadanin • Schmeid
Engenseer EV Changing Expert EVCE CARDS STATUNG BED CARDS MAAACCHENT Asses + work Remote Superscision Energy Management, Date & Tem Kolo Name	Company Stations Office Power Hetters Trine of Use Digda Input Certificates Firmwares Advanced TrineActs Ditys Maxie	nuadesin - Schreid mann Set. Edit. Re.,
Ben Orwann EV Changing Expert EV Changing Expert ROMO STATIONS BED CATOS MARACEMENT Acaes • Acaes • Note: The Supervision Energy Management Date & The Wold Name	Company Statistics Office 2	num Set. Edit. Pe P 10

- 3. Enter a Period Name.
- 4. Define Timeslots:
 - Enter a Start Time. •
 - Enter an End Time. ٠
 - Select Add Timeslot to add another timeslot for this reduction. •
- 5. Select the days when the timeslots apply.
- 6. Define a percentage for Maximum Setpoint.
- 7. Select Create.

8. Select ADMIN > Digital Input.

NOTE: EcoStruxure EV Charging Expert digital inputs are accessible through GPIO connections located on the rear side of the EcoStruxure EV Charging Expert device. Activation of a digital input reduces maximum zone current according to its configuration.



Electrical connection: only digital inputs 1, 2 and 3 are driven by GPIO channels 1, 2 and 3. To activate a digital input, it must be powered to 3.3 Vdc TTL.





HAZARD OF EQUIPMENT DAMAGE

Follow the wiring indications and the voltage of a maximum of 3.3 Vdc.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

9. Enable or disable digital inputs.

NOTE: Each digital input can be enabled or disabled separately.

- 10. For each digital input, fill in the following fields:
 - Name
 - **Maximum Setpoint**: reduction in percentage applied to EcoStruxure EV Charging Expert zones

EV Charging Expert EVCE					? 👌 user_admin 💌	Schneider
	EMENT ADMIN +					
Network Remote Supervision Energy Mana	agement Date & Time Zone Ma	nagement Power Meters Tir	ne of use Digital Input Certificates	Firmwares Advanced		
Digital Input Configuration 👓 🇨) ON					
Define the % to apply on maximum current setpoin	nt based on the state of the digital inpu	ts				
	# Digital Input	Name	Maximum Setpoint	Edit		
	OFF ON 1	Solar limit	70 %	0		
		Name* Solar limit				
	,	faximum Setpoint* 70	Ø			
				Save		
	OFF ON 2	DI 2	0.%	0		
	OFF ON 3	DI 3	0 %	0		

For example, if you select 70, and if your actual setpoint for the charger is 32 A, the resulting setpoint applied to the charger is 32 A*70% = 22,4 A.

Architecture	Next step
Architecture 1, page 35	Managing authentication, page 92
Architecture 2, page 38	Managing authentication, page 92
Architecture 3, page 41	Managing authentication, page 92
Architecture 4, page 44	Managing authentication, page 92
Architecture 5, page 47	Managing authentication, page 92
Refer to Description of Sys	stem Architectures, page 32.

Managing Authentication

When there is no charging station management system to manage authentication and grant access to the charging stations, EcoStruxure EV Charging Expert can handle access through the creation of groups and the use of RFID cards.

An authentication group is a selection of charging stations associated with a list of RFID cards. Each authentication group has its own online and offline authentication strategies.

Each charging station can only be associated with one authentication group. RFID cards can be assigned to several authentication groups.

To manage authentication strategy:

1. Select the Authentication menu.

Ev Charg	ing Expert	/CE Ø							? ∂ _D user_admin ♥	Schneider
Credentials	🛛 🕗 Network –	— 🥑 Remote Supervision —	🕗 Date & Time	Stations	Power Meter	🕗 Zones	Stations Assignment	🕘 Energy Management –	10 Authentication	(1) RFID Cards

- 2. Select one of the three following options for Authentication groups:
 - **One global group**: all installed charging stations are assigned to one authentication group.
 - One group per charger: one authentication group is created for each charging station (recommended solution to manage one RFID badge for one charging station).
 - **Custom installation**: create one or multiple authentication groups according to installation needs.

NOTE: After configuration, you can change the authentication configuration from the **ADMIN** menu.

3. Define online and offline authentication strategies. The **Offline strategy** manages the authentication process when the charging stations are disconnected from EcoStruxure EV Charging Expert.



4. When selecting **Save and Next**, the following screen is displayed:

		0		,	0	1 2		
	0	A	BC	D			E	
= ;	V Charging Expert	EVCE					? 👌 user, dmin 💌	Schneider
🕗 Ne	twork 🛛 🕗 Remo	ate Supervisio I — 🥑	Date & Time 💦 😁 S ations ———	🥏 Power Meter — 🕑 Zones	s	t — 🥑 Energy Nanagement -	O Authentication	10 RFID Cards
RFID	Card Management	+ Add an RFID car	d 🔓 Limport 🛃 Export				V But	Modifications
	ld.	↑ VIP	Authorized	Comments	Registration	Last Time Seen	Authentication group	
Æ	E6654ASXF651G		2	Card A	11/07/2024. 15:13:36	11/07/2024. 15:13:36	Group 1	+ 🗑
	E6716CW6514DA			Card A	09/07/2024, 16:37:54	09/07/2024, 15:37:54	Select options	- 8
							Search here	Q
							Group 1	
							Group 2	
								Select all
	_					Items per page 10 + K <	Page 1 /1 >)	4
Previou	s							Save and Finish

- A. Add an RFID card: to add or import RFID badges.
- B. **VIP**: tick this box to give the EV driver priority in load management system. This option is disabled by default.
- C. **Authorized**: tick this box to authorize the EV driver to start a transaction with this RFID card. This option is only used for assigned authentication group with **Authorize only the known RFID cards** authentication strategy. This option is disabled by default.
- D. Comments: to add a comment on an RFID card.
- E. **Authentication group**: to assign an RFID card to one or more authentication groups.

The list of RFID cards can be exported to a web interface or imported from a web interface. For information about csv format, see DOCA0358EN *EcoStruxure EV Charging Expert User Guide*, page 10.

Architecture	Next step
Architecture 1, page 35	Finalizing the commissioning, page 94
Architecture 2, page 38	Finalizing the commissioning, page 94
Architecture 3, page 41	Finalizing the commissioning, page 94
Architecture 4, page 44	Finalizing the commissioning, page 94
Architecture 5, page 47	Finalizing the commissioning, page 94
Refer to Description of Sys	stem Architectures, page 32.

Finalizing the Commissioning

To confirm your settings and finalize the commissioning, select **Save and Finish**.

≡ 8	V Charging E	xpert EVCE	0						? Ab user_admin •	Schneider
Net	work	Remote Supe	ervision — 🕝 Da	ate & Time 🕑 Stations -	Power Meter	- 🕗 Zones		— 🕑 Energy Management —	Authentication	RFID Cards
RFID	Card Manag	ement + /	Add an RFID card	📩 Import 🕹 Export					7	ulk Modifications
	ld	Ŷ	VIP	Authorized	Comments		Registration 0	Last Time Seen 0	Authentication group	
Æ	E6654ASXF65	i1G			Card A		11/07/2024. 15:13:36	11/07/2024.15:13:36	Group 1	+ 🗑
	E6716CW651	4DA			Card A		09/07/2024, 16:37:54	09/07/2024, 16:37:54	Select options	- 8
									Search here	Q
									🗌 Group 1	
									Group 2	
										Select all
							не	ms par page 10 + K <	Page 1 - 1/2 - 7	A
Previou										Save and Finish

Architecture	Next step
Architecture 1, page 35	Saving and exporting configuration, page 95
Architecture 2, page 38	Saving and exporting configuration, page 95
Architecture 3, page 41	Saving and exporting configuration, page 95
Architecture 4, page 44	Saving and exporting configuration, page 95
Architecture 5, page 47	Saving and exporting configuration, page 95
Refer to Description of Sys	stem Architectures, page 32.

Saving and Exporting Configuration

It is recommended to save a backup of the current system configuration and import it later to restore a lost configuration.

The configuration export contains the following information:

- · Administrator and user profiles credentials
- Charging stations configuration
- Zones configuration
- Power meters configuration
- Network configuration
- Authentication strategies
- List of RFID cards
- · Authentication groups

To save a backup of the current system configuration:

- 1. Select ADMIN > Save.
- 2. To generate the backup file, enter a password and confirm the password.

	Save	0
	Save device configuration and data	
	This will generate an encrypted file.	
	Password *	
	Enter between 4 and 32 characters	
	Confirm password *	
	Enter between 4 and 32 characters	
Zone	Comment	
Employ	Enter comment	
Employ		
Employee	taking ± (Alabase)	
E settere		

3. Save the exported file in a relevant repository.

NOTE: To help ensure the security of your information, the exported file is encrypted and signed.

- 4. To check that your EV infrastructure is commissioned and operational, check the following:
 - All charging stations are connected and connectors are available.
 - Use an EV charging simulator to check that the charge works well.
 - · Digital inputs are operational by testing them manually.
 - Time of use is confirmed during operation.
 - Data flow is available on your EcoStruxure EV Charging Expert monitoring dashboard.

Commissioning EVIink Pro AC Charging Stations One by One by Using eSetup Application

To commission EVlink Pro AC charging stations one by one by using eSetup application, refer to:

- NNZ1940301 EVlink Pro AC Troubleshooting Guide
- the video explaining how to commission EVlink Pro AC charging stations by using eSetup application:



https://youtube.com/playlist?list=PLa7UGrWOTyjlFktxGiia8yNkYOQaMJuzX

Architecture	Next step
Architecture 4, page 44	Commissioning Schneider Charge Pro charging stations one by one by using eSetup application, page 97
Refer to Description of Sys	stem Architectures, page 32.

Commissioning Schneider Charge Pro Charging Stations One by One by Using eSetup Application

To commission Schneider Charge Pro charging stations one by one by using eSetup application, refer to:

- TME42383 Schneider Charge Pro Installation and Operation Guide, page 10
- the video explaining how to commission Schneider Charge Pro charging stations by using eSetup application:



https://youtu.be/BGCuxbVv9AU

Specific Functions and Configurations

What's in This Part

Importing EcoStruxure EV Charging Expert Configuration	99
Updating EcoStruxure EV Charging Expert Firmware	100
Setting Up a Ring Topology for EVlink Pro AC Range	101

Importing EcoStruxure EV Charging Expert Configuration

If you want to restore or re-use a saved configuration, you can select **Import Configuration** when opening EcoStruxure EV Charging Expert.

≡	Experiment EV Charging Expert		? & default_user • Schneider
		Welcome to the configuration interface for Schweider Electric EcoStructure DV Charging Expert. How would you like to start?	c*
,	Constant Firmware Departure Firmware Setter we addres to statil the litter software for Dranging Expert Setter was dated with a conservement Setter was addressed Setter was Setter was	Start Configuration The assistant well guide you through the initial configuration of the EV Charging Eight. All configuration can be charged at a later time, this Start Carefuguration	Import Configuration You can restore a previously created backup or import a prepared configuration file.

A pop-up window allows you to recover a configuration from a previous configuration export.

E Import Configuration	0
You can restore a previously created backup or import a prepared configuration file	ð.
File*	
Add from desktop No file chosen !	
Password *	
Zone Enter between 4 and 32 characters	
Employ	
Employ	① Restore
Employee Parking 1 Available	
Employee Parking 1 Available	

NOTE: The configuration file with version 6.0.0 or higher is compatible. It requires configuration file password to be installed.

Updating EcoStruxure EV Charging Expert Firmware

Select the hamburger menu and Device Update.



The following screen is displayed while the new version is being installed.



It takes about one minute to run the firmware installation. After one minute, EcoStruxure EV Charging Expert reboots, with the up-to-date firmware version.

Setting Up a Ring Topology for EVlink Pro AC Range

What's in This Chapter

Prereguisites	102
Configuring EVlink Pro AC Charging Stations with eSetup	103
Configuring the Switch	104
Example of a Configuration Using a Schneider Electric Modicon Managed	
Switch	105
Setting up the Ring Network	112

This chapter provides you with information about the commissioning of a ring topology cable network for EVlink Pro AC charging stations. It contains generic information for configuring the switch in your installation, as well as examples based on a Modicon switch.

This chapter explains how to:

- Update the EVlink Pro AC charging station and activate the RSTP protocol using eSetup.
- Install the switch configuration software on your PC.
- Configure the Modicon switch used to form a ring topology. For more information refer to Configuring the Switch, page 104.

For more information, refer to:

The video showing how to configure Ethernet communication parameters:



https://www.youtube.com/watch?v=Sg7sAeqko_w&t=89s

- DIA6ED2140903EN Modicon Networking Catalog 2022, page 10
- ConneXium switch configurator software

Prerequisites

Before installing a ring topology network, check the following:

- 1. EVlink Pro AC charging stations:
 - EVlink Pro AC charging stations are wired for power.
 - The eSetup application version is at least 13.1.3.
 - The firmware version of the EVlink Pro AC charging stations is at least 1.3.8 for all ring charging stations.

Updating the firmware and entering parameters in eSetup determines whether the charging stations are integrated into a ring topology.

2. Network cabling

The network of charging stations is daisy chained with a maximum of 20 charging stations per daisy chain. The loop is open at switch level.

3. Managed switches

The managed switch is compatible with the RSTP protocol. The STP protocol is not supported.

- The RSTP configuration of the managed switch can be modified.
- The managed switch authorizes BPDU frames on ports connected to the loop. Anti-loop protection such as Cisco BPDU Guard / BPDU Filter are disabled.

Configuring the managed switch determines the proper operation of the ring topology.



A maximum of 20 charging stations can be in the ring.

Configuring EVIink Pro AC Charging Stations with eSetup

The firmware version installed on EVlink Pro AC charging stations is at least 1.3.8.

The eSetup application version is at least 13.1.3.

Otherwise, when configuring a ring topology, a pop-up window appears on the application and asks you to update the Pro AC firmware to proceed with its configuration.

Refer to the documentation for updating the EVlink Pro AC charging stations: EVlink Pro AC – Professionals.

For more information about how to configure Ethernet communication parameters with eSetup, refer to the video showing RSTP activation for a ring topology.



https://www.youtube.com/watch?v=Sg7sAeqko_w&t=89s

To configure charging stations with eSetup:

1. Check the installation.



2. Enable RSTP.

TIVATION RSTP		ACTIVATION RSTP ()	
Off	On	Off	On
CP		DHCP	
off	On	Off	On
RESSE IP V4		ADRESSE IP V4	
92.168.0.24		192.168.0.24	
SQUE DE SOUS-RÉSEAU		MASQUE DE SOUS-RÉSEAU	
255.255.0.0		255.255.0.0	

To activate the RSTP protocol, click Activate RSTP > ON.

Configuring the Switch

The following configuration is suitable for transforming an existing network into a ring topology.

1. On a computer that is connected to the managed switch or LAN network, open a web browser and enter the IP address of the managed switch.

Enter the user ID and password that are known or provided in the switch user guide (default identifiers).

 Enable protocol support for the Rapid Spanning Tree Protocol (RSTP). The Spanning Tree Protocol (RSTP) is not supported for the creation of a ring topology on EVlink Pro AC charging stations.

Configure the following RSTP parameters according to the values indicated.

Parameter	Value
Bridge Priority	< 32768
Max age	≥ Number of chargers in the ring + 1

For example, the following RSTP configurations meet the expected values for a ring topology of 20 charging stations.

Parameter	Value
Bridge Priority	4096
Max age	21

Disable anti-loop protection features (such as Cisco BPDU Guard / BPDU Filter or equivalent) on the switch ports connected to the ring.

3. Save the new managed switch configuration. If necessary, restart to apply the changes.

Example of a Configuration Using a Schneider Electric Modicon Managed Switch

The following configuration is recommended for any new installation. The Schneider Electric Modicon managed switch has been tested and validated for optimum use of a ring topology of EVlink Pro AC charging stations.

The following table shows recommendations for configuring IP addresses.

Device	IP address
EV Charging Expert	192.168.0.128
Gateway	192.168.0.254
Remote access	192.168.0.253
Modicon switch	192.168.0.100

- PC configuration recommendations for installing the Modicon Switch configuration software: to install the Ethernet Switch Configurator 2.2.07 software:
 - a. Check that you are the administrator of your PC.
 - b. Check that the software is launched in Windows 7 compatibility mode.



- c. Check that firewalls are disabled or configured to allow communication on the LAN.
- d. Check that the Ethernet network parameters of the PC are modified as follows if a DHCP server is missing:
 - IP address: 192.168.0.1
 - Subnet mask: 255.255.255.0
 - Gateway: 192.168.0.254

Réseau e	Modifier les paramètres	IP		
	Manuel			
C Ethern Non co	IPv4			
	Activé			
Connel	Advasce IP			
Certain	192.168.0.1		rique vous êtrs connectés à ce réseau.	Désectivé
Définir	Masque de sous-réseau		ur ce téseau	
Attribu	255.255.255.0			
Attribu	Passerelle			
Fabrica	194.100.02.24			
	DNS préféré			
Version	88.8.8			
	DNS sur HTTPS			
	Désactivé			
	Autre DNS			
	Enregistzer	Acruler		

e. Check that the network configuration is taken into account.



2. Install the Modicon switch and connect it to the LAN.



NOTICE

HAZARD OF NETWORK INOPERABILITY

- Leave the network loop open in switch.
- It is closed once the configuration is completed.

Failure to follow these instructions can result in equipment damage.

- a. Power on the equipment.
- b. Connect the device with an RJ45 cable.



- 3. Switch detection
 - a. On the PC, launch the Ethernet Switch Configurator 2.2.07 software.



The software automatically runs a network scan that identifies the switch to be configured.

📉 Ethernet Switch Confi	gurator								
Fichier Editer Options ?									
Signal Propriétés WWW Tehet Ping Rescan Préférence 192.168.0.1: Intel(R) Ethernet Connection (10) I219-LM 🗸									
Id Adresse MAC Modifiable en écriture Adresse IP A Masque réseau Passerelle par défaut Produit Nom									
1 A0:80:86:E4:61:AA						MCSESM043F23F0			
1 A0:80:86:E4:61:AA 0.0.0.0 0.0.0.0 0.0.0.0 MCSESM043F23F0 MCSESM043F23F0									

b. Edit the properties by clicking the Properties menu.



c. Configure the switch network parameters (according to initial recommendations).

Propriétés						×			
Adresse MAC: /	A0:B0:86:	E4:61:A	A						
Nom: MCSESM043F23F0									
Configuration I	P								
Adresse IP:		192	. 168	. 0	. 100	Réglages par Défaut ()			
Masque réseau:		255 . 255 . 255 . 0 Régla			Réglages par Défaut ()				
Passerelle par	défaut:	192	. 168	. 0	. 254	Réglages par Défaut ()			
Sauvegarde réglages par Défaut									
			Ok	An	nuler				

d. Check that the switch network configuration is properly applied.

ichier			K Ethernet Switch Configurator							
	r Editer Options ?	Fichier Editer Options ?								
🖕 📝 🧕 🔳 😡 🧟 🦠 Signal Propriétés WWW Tehet Ping Rescan Préférences										
Id Adresse MAC Modifiable en écriture Adresse IP A Masque réseau Passerelle par défaut Produit Nom										
1 A0:80:86:E4:61:AA		192.168.0.100	255.255.255.0	192.168.0.254	MCSESM043F23F0	MCSESM043F23F0				

- 4. Connection to Modicon Switch web pages:
 - a. On the PC, launch a web browser and enter the switch IP address.
 - b. Confirm the connection to the server by clicking **Continue to 192.168.0.100 (unsecured)**.

A
Votre connexion n'est pas privée
Les utilisateurs malveillants essaient peut-être de voler vos informations de 192.164.0.100 (par avample, les mots de name, les massages ou les cartes de crédét)
exemple as mos as passe as messages as as values as occas. NELESR_CERT_AUTHORITY_INALID
Moque les Réments avancés .
Ce serveur n'a pas pu prouver qu'il s'agit de 192.168.0.100. Son certificat de sécurité n'est
pas approuvé par le système d'exploitation de votre ordinateur. Cela peut être dù à une mauvaise configuration ou à un utilisateur malveillant qui intercepte votre connexion.
Continuer vers 1102-168.0.100 (non-securite)

c. Enter the user ID and password that are known or provided in the switch user guide (default identifiers).

User ID: admin

Password: private



d. Change the password and confirm.

Change password		Change password
inter new password	Display content	Enter new password 🕡 🗆 Display
	OK Û Cancel	_ ∝ ♥
The source		100

The main screen displayed is as follows.

Ξ.	MURSHOULERO - 1927043/11 ×								- o x	
÷	- 🔿 🙆 💿 Hammadalah Hammadalah Hammadalah (1923) MAD 100 (1934)									
- P	no 🛅 SE 🛅 MarCom	🗅 Configeron 🧯 Boards	🛅 Shandsirt 🛅 Software 🛅 Tools 🛅 Interop 🛅 I	Competition 🛅 Jim 🛅	Development [Inco	www.Your:Self-C				
Nav	gation 4								Schneider	
2	L () P == 🗊	System							Electric	
Filter	- · X	Device status		Security status			Signal contact 1 status			
	Basic Settings	Alarm counter	۱ D	Aleen tourier 5	0		Alem coster	0		
	System	System data							LED	
	L Network	System name	MCSESM043F23F0		Power supply 2	defective			status	
	Out of Band over USB	Location			Uptime	ful 3h 27m 28a			Stetus 😑	
	Software	Canted person	warw schnolder electric com		Temperature [10]	45			Prov.	
	Load Save	Device type	MCSESM043F23F0 HW: 3000		Upper temp. Imit ("C)	70				
	External Memory	Power supply 1	present		Lower temp. Imit (*C)	D			EAM 🕚	
	Port									
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6		1/1 00 MRbh								
U	Device Security	12								
Ø	Network Security	10 🖷								
≯	Switching	54 .								
堅	Diagnostics									
Ð	Advanced									
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Ε.										

- 5. Configuration of the switch for a ring topology: RSTP Priority and Max age.
 - a. In the **Switching** menu check the default values indicated by the configuration tool for configuring the **Bridge**, and modify the value **Priority** and the value **Max Age** as follows:

Fields	Value						
Priority	4096						
Hello time	2 s						
Forward delay	15 s						
Max age	21						
Navigation 4							Schneider
--------------------------	-------------------	---------------------	-------------	---------	--------------------------------------	---------------	------------
S L A P 🚥 🛈	Spanning Tree G	iobal					Ø Electric
Filter	Operation	Variant	Traps				
Basic Settings	⊙ 0n ⊖ 0#	rstp 👻	Send trap 6	1			
🕜 Time	Bridge configurat	ion					
Device Security	Bridge ID	32768 / a0 b0 86 e4	161 aa		Tx holds	10	
Network Security	Priority	32768	w.]	BPOU guard	0	
⊅C switching	Hello time [s]	2		Default	BPDU fiter (all admin edge ports)	0	
Global	Forward delay [5]	15		Deluuit	Lots disable		
Rate Limiter	Max and	- 20		values			
Filter for MAC Addresses	epr	27			-		
L IGMP Snooping	Root Information				Economic della (c)		
L TSN	Planta	32768780.00.06.04	101 88		Formard densy [4]	15	
	Priority	32768			Max age	20	
L GARP	Hello time [s]	2					
	Topology informa	tion					
	Bridge is root	8			Topology changes	0	
L2-Redundancy	Root port	no Port			Time since topology	0d 0h 00m 30s	
MRP	Bast eath cost				change		
HIPER Ring							
L Spanning Tree				_			_
Global				✓	3		•
Port							

Navigation 4				
S & A 🖓 🏳 300 🛈	Spanning Tree	Global		
Filter 🗙	Operation	Variant	Traps	
Basic Settings	⊙ On ⊖ Off	rstp		1 I I I I I I I I I I I I I I I I I I I
🕝 Time	Bridge configur	ation		
Device Security	Bridge ID	32768 / a0	b0 86 e4 61 aa	
Retwork Security	Priority	4096	Ŧ	
Switching	Hello time [s]	2		
Giobal	Forward delay [s]	15		
Rate Limiter	Max ane	21		
Filter for MAC Addresses	max age	- 21		

b. Save the new parameters.



- 6. To update date and time:
 - a. In the **Time/Basic settings** menu, update the indicated values using the PC clock.

Navigation 4					Se	hneider
	Basic Settings					
7be * 🗙	Gisbal Daylig	ht saving time				
Basic Settings	Configuration					
🕜 Time	System time (UTC)	Jan 1, 2021, 12:10:59 AM	Set time from PC			
Basic Settings	System time	Jan 1, 2021, 1:10:57 AM				
SNTP	Time source	local	ĸ			
L _{PD}	Local offset(min)	60				
L 802.1AS						
U Device Security						
A Network Security						
Switching						
Diagnostics						
Advanced						
(?) Help						
Ť						
				1 2		2
						\mathbb{U}

b. Save the date and time settings.

Navigation 4					
	Basic Settings				
Dasic Settings	Configuration	Caylight saving and			
🕜 Test	System time (UTC)	Apr 15, 2024, 1:57.44 PM	Set time how PC		
Basic Settings	System time	Apr 15, 2024, 2:57.43 PM			
L swm	Time source	local			
L _{PTP}	Local offset [min]	60			
E 802.1A5		5			
Device Security					
Network Security					
Disensation					
Advanced					
(?) Help					
				K	

- 7. To save the new configuration:
 - a. In the **Basic Settings->Load** menu, select the configuration information.

Navigation	•										Schneider
						Continu		ing.	Informa	5 70	
Basic Settings	Selected external memory Status	usb natPresent	¥			Active		Sul personnel Childre	NVM in a running o	ync with O onlig memory O	
Landarda	The lay continue to	medications		_			-	a contine on a seconda analose adama analose	in system		
Global	Operation	0 0n () 0f					Operation	n O On © Of			
24	Timeout [a] to recover	600					LIFE.		Set or	dentais	
~	after connection loss										
Out of Band over USB	Storage type	tolia name M	odification data (UTC)	Selected	Encrypted	Encryption verified	Software version	Fingerprint	Fingapoint verfied		
Lonwin	C RAM D	· etrasecimu					00.7.04		0		
Load save	NM 9	uefg Ja	en 1, 2021, 3 57 20 AM	8	0	0	68.7.04	7C2C8F841F4686386703F37F7781C8AD11D0DC1F	8		
External Memory	K										
	l ·										
Arsun											
Basic Settings											
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Device Security											
Retwork Security						V 3	11	≡ •			1
10 testering											

b. Save the new configuration.

Nave	ини () 12 () () () () () () () () () () () () ()		oadSava										Schneider
-	. 🖂	1	External memor	*				Configura	tion encrypti	on .	Informat	204	
•	Basic Settings		Selected Internal memory	dev	*			Active		Data parameter Databa	NVM in sy running co	nc with 🕓 efg	
	System	Ľ	Status	naPresent							External m in sync wit	enay O	
	Network.	Г	Undo configura	ion modifications					Backup	config on a remote server when saving			
	Circlest	I	Operation	0 0n © 0	r				Operation	⊖ os ⊚ or			
	N	Ŀ	Imeout (s) to reco after connection lo	wr 600					URL.		Set cost	berdian.	
	- m	Ŀ	Netholog IP addre	0.0.0.0									
	Out of Band over USB	Ľ				Laura		Encugion	Salvan		Finanzist		
	Software	Ĕ	Storage type	Profile name	Modification date (UTC)	Safachad	Encrypted	verified	version	Propepent	verified		
	Load Save	Ĭ	NVM	cardia	- Jan 1, 2021, 3 17 28 AM				087.04	TC2CRFR41F466K3807E3F37F7784C84D11D6DC1F	8		
	External Memory	Ľ											
	PM	L											
	Restart	L											
0	Time	L											
	Basic Settings	L											
	L same	L											
	L p119												
	L BULIAS	•											
U	Device Security								_	_			_
(1)	Network Security							v 3	88 B.	= ·			0
24	Switching												



8. Open the **Diagnostics/Report/System Log** menu to check that the changes appear in the **System Log** report.

Navigation 4	Sustem Log			Sch	neider Electric
Thus, we want	System Log				
Basic Settings	System Information				
Device Security	Product Release Hardware version Serial number	MC5554043F23F0 08.7.04 3000 94217061167782899			
∰ Network Security ≫ switching	Firmware software release (FLASH) Firmware software release (BAK) Bootcode software release (ELASH) Management IP	00 7 04 2021 11 11 13 33 00 7 04 2021 11 11 13 33 08 7 04 2021 15 11 13 53 08 7 04 2021 06 24 12 00 192 108 0 100	System Information		ור
Diagnostics	IPv6 Link Local Address MAC(Range: 32) System Name System Up Time	1e00: a2to 3011 fee4 61aa A0.10.0016 E4.61 AA MCSESMA43F23F0 O days 0 Ans 2 mini 11 secs	System mornation		
L _{System}	System Date and Time (local time zone) System operating hours	2024-04-15 15 08 04 17 days 10 hrs 12 mins 13 secs	Product	MCSESM043F23F0	
L Email Notification	Power1 Power2 Current temperature	PRESENT DEFECTIVE 44 °C	Release	08.7.04	
Syslog	Configuration state (running to NVM) EAM (envm/USB) Status	OK notPresent	Hardware version	3000	
L Ports	Service shell admin status	enabled	Serial number	942170601167702699	
LLOP	Severity threshold for high priorit	y bufferwarning	Firmware software release (RAM)	08.7.04 2021-11-11 13:53	
Loop Protection	2164: Notice Apr 15 2 2163: Notice Apr 15 2 2162: Notice Apr 15 2	024 15104159 [SMPF_TMAF SMPTrightsk Mid0220001] 5425 024 15104158 [SIRMUR tLighty Mid002005a] Login via v 024 15104152 [SMPF_TMAF SMPTrightsk Mid0220001] 5429	Firmware software release (FLASH)	08.7.04 2021-11-11 13:53	
Report	2161: Notice Apr 15 2 2160: Notice Apr 15 2 2159: Notice Apr 15 2	024 15:04:51 [SMPP_TMAP SMPFTragTask 0x00230001] The 024 15:04:50 [SMPP_TMAP SMPTragTask 0x00230001] sa20 024 15:04:44 [SMPP_TMAP SMPTragTask 0x00230001] sa20	Firmware software release (BAK)	08.7.04 2021-11-11 13.53	
Global	2158: Notice Apr 15 2 2157: Notice Apr 15 2	024 15:04:43 [SNUP_TRAP_SNUPTragTask_0x00230001] sa2 024 15:04:40 [SNUP_TRAP_SNUPTragTask_0x00230001] sa2	Management IP	102 168 0 100	
Persistent Logging	2155: Notice Apr 15 2 2155: Notice Apr 15 2 2154: Notice Apr 15 2	024 15:04:38 [USERNGR tilgnty 0x00020055] Login via v 024 15:04:35 [ACD tAcdRev 0x000200025] Network paramet	IPv6 Link Local Address	fe80::a2b0:86ff fee4:61aa	
System Log	2153: Notice Apr 15 2 2152: Notice Apr 15 2 2151: Notice Apr 15 2	024 15:04:34 [S0PP_TRAP dot1s_timer_tas 0x000230001] 9 024 15:04:34 [COT15 dot1s_timer_tas 0x001d000e] STP y 024 15:04:31 [LLDP tLLDPTask 0x0000f0004] New neighboy	MACIRanne: 321	A0:B0:86:E4:61:AA	
Audit Trail	9160- Notice die 16.3	ang to-ag-nt found tage wiw e availatabili the will do	System Name	MCSESM043F23F0	· · ·
Advanced			System Up Time	0 days 0 hrs 2 mins 11 secs	2
(?) Help			System Date and Time (local time zone)	2024-04-15 15:06:04	
			System operating hours	17 days 10 hrs 12 mins 13 secs	
			Power1	PRESENT	·
			Power2	DEFECTIVE	
			Current temperature	44 °C	
			Configuration state (running to NVM)	ОК	
			EAM (envm/USB) Status	notPresent	
			Service shell admin status	enabled	

Setting up the Ring Network

- 1. Closing the loop
 - a. Close the network loop by connecting both ends of the existing daisy chain to two ports on the managed switch.
 - b. Check that the managed switch is still connected to the LAN network and/or the EV Charging Expert.

For example, on a Schneider Electric Modicon managed switch, the connection should look like on the following picture.



- 2. Check that the ring topology is working correctly:
 - All EVlink Pro AC charging stations are operational (green LED).
 - All EVlink Pro AC charging stations are connected to EV Charging Expert and/or the charging operator (CPO) and are available in the remote management interface.

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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