

owe

Schne

0

Guide for for New Commercial and Industrial Buildings for North America

0100DB1902 2019

Eco **F**truxure

Innovation At Every Level



Act

Measure

Connect

NT FEEDER

40076858-002 SECTION 1 OF 1

NT FEEDER

Hardware and the second s

se.com/facilityexpert

Hazard Categories and Special Symbols

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 bulletin or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



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

 \wedge

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.

A DANGER

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

Failure to follow these instructions will result in death, serious injury, equipment damage, or permanent loss of data.

WARNING

WARNING indicates a hazardous situation which, if not avoided, can result in death or serious injury. Failure to follow these instructions can result in death, serious injury, equipment damage, or permanent loss of data.

▲ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **can result in** minor or moderate injury. **Failure to follow these instructions can result in injury or equipment damage**.

NOTICE

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

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, operation and installation of electrical equipment, 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 the buildings. The type or model of electrical monitoring and control equipment suitable for each application will vary depending on factors such as the system dependability level, unusual conditions and government regulations etc.

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 properly 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 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 protection must be coordinated with the related 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 be 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 references.

Software testing must be done in both simulated and real environments.

Verify that the completed system is free from all short circuits and grounds, except those grounds installed according to local regulations (according to the National Electrical Code in the U.S.A., for instance). If high-potential voltage testing is necessary, follow recommendations in equipment documentation to prevent accidental equipment damage.

Before energizing equipment:

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

Operation and adjustments

The following precautions are from the NEMA Standards Publication ICS 7.1-195 (English version prevails):

■ Regardless of the care exercised in the design and manufacture of equipment or in the selection and ratings of components, there are hazards that can be encountered if such equipment is improperly operated.

■ It is sometimes possible to misadjust the equipment and thus produce unsatisfactory or unsafe operation. Always use the manufacturer's instructions as a guide for functional adjustments. Personnel who have access to these adjustments should be familiar with the equipment manufacturer's instructions and the machinery used with the electrical equipment.

• Only those operational adjustments actually required by the operator should be accessible to the operator. Access to other controls should be restricted to prevent unauthorized changes in operating characteristics.

Safety precautions

The following safety messages apply to installation, configuration and operation of SmartStruxure Building Operation, Power Monitoring Expert, Facility Expert, and Power Manager software connected to Smart Panels.

DANGER

HAZARD OF ELECTRIC SHOCK, BURN OR EXPLOSION

Only qualified personnel familiar with low and medium voltage equipment are to perform work described in this set of instructions. Workers should understand the hazards involved in working with or near low and medium voltage circuits.

Perform such work only after reading and understanding all of the instructions contained in this bulletin.

- Turn off all power before working on or inside equipment.
- Use a properly rated voltage sensing device to confirm that the power is off.

■ Before performing visual inspections, tests, or maintenance on the equipment, disconnect all sources of electric power. Assume that all circuits are live until they have been completely de-energized, tested, grounded, and tagged. Pay particular attention to the design of the power system. Consider all sources of power, including the possibility of back feeding.

■ Handle this equipment carefully and install, operate, and maintain it correctly in order for it to function properly. Neglecting fundamental installation and maintenance requirements may lead to personal injury, as well as damage to electrical equipment or other property.

Beware of potential hazards, wear personal protective equipment and take adequate safety precautions.

• Do not make any modifications to the equipment or operate the system with the interlocks removed. Contact your local field sales representative for additional instruction if the equipment does not function as described in this manual.

- Carefully inspect your work area and remove any tools and objects left inside the equipment.
- Replace all devices, doors and covers before turning on power to this equipment.

■ All instructions in this manual are written with the assumption that the customer has taken these measures before performing maintenance or testing.

Failure to follow these instructions will result in death or serious injury.

WARNING

UNINTENDED EQUIPMENT OPERATION

• Do not use the software to control time-critical functions because communication delays can occur between the time a control is initiated and when that action is applied.

■ Do not use the software to control remote equipment without securing it with an authorized access level, and without including a status object to provide feedback about the status of the control operation.

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

INACCURATE DATA RESULTS

WARNING

Do not incorrectly configure the software, as this can lead to inaccurate reports and/or data results.

- Do not base your maintenance or service actions solely on messages and information displayed by the software.
- Do not rely solely on software messages and reports to determine if the system is functioning correctly or
- meeting all applicable standards and requirements.

Consider the implications of unanticipated transmission delays or failures of communications links.

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

NOTICE

LOSS OF DATA

Be sure to activate product and component licenses prior to the expiry of the trial license.

- Ensure that you activate sufficient licenses for the servers and devices in your system.
- Backup or archive any SQL Server database data before adjusting any database memory options.

Only personnel with advanced knowledge of SQL Server databases should make database parameter changes.
 Failure to follow these instructions can result in loss of data.

NOTICE

UNAUTHORIZED OR UNINTENDED ACCESS TO CUSTOMER DATA

Personnel setting up third-party authentication of the software must be aware that links to data are not secure.

Do not setup access links to sensitive or secure data.

Failure to follow these instructions can result in unauthorized or unintended access to sensitive or secure customer data.

NOTICE

NETWORK INOPERABILITY

Do not make unauthorized changes in the network configuration.

Failure to follow these instructions can result in an unstable or unusable network.

Asset and Energy management have never been simpler

Smart Panels connect you to energy savings in three steps.

Smart Panels digitized by Fnerlin'X	0 Digitize	Measure
	> Easily collaborate and share switchboard documents	Embedded and stand-alone metering and control capabilities
	> Attach preventative maintenance plans	> Embedded and stand-alone metering
		> Control capabilities
	2 Connect	3 Act
	 Integrated communication interfaces 	> Data-driven energy efficiency actions
	> Ready to connect to	> Real time monitoring and control
		 Access to energy and asset management through on-line services
	Ending Experimental Andrew States and States	
	Tested Validated Decumented Smart Da	nolographitactura



Tested, Validated, Documented Smart Panels architecture Smart Panels have been certified via Schneider Electric's "guide" quality process Tested in performance labs by experts, in the most common configuration Validated full functional compatibility of devices Documented, with user guide, predefined CAD panel designs and wiring diagrams

Smart Panels overview

Smart Panels are key components of energy management in buildings.

You can only manage what you measure and see. Schneider Electric Smart Panels form the basis of a simple solution for understanding how a building functions in terms of energy consumption and technical performance.

Smart Panels are the first step in creating an energy management strategy. Combined with Schneider Electric Energy Management Services, they form a complete solution for real energy savings.

Smart Panels are based on the Ethernet network. Ethernet is widely used in domestic and industrial applications, allowing easy, transparent access to electrical devices from any location.

Purpose

The purpose of this guide is to provide methodology on how to configure Smart Panels - electrical distribution switchboards featuring full digital connectivity. This is achieved through one main reference switchboard architecture which has been fully tested, validated, and documented in Schneider Electric laboratories.

EcoStruxure[™] Facility Expert Smart Power License

To purchase a license for EcoStruxure Facility Expert, please contact your local Schneider Electric representative.

EcoStruxure Facility Expert Smart Power license combines the operations and energy features detailed below.



Prerequisites

To better understand and benefit from this guide, familiarity with LV electrical distribution components is required.

Scope of Smart Panels

The first release of this guide covers LV switchboards for non-critical, medium and small buildings:

- School
- Gymnasium
- Small Hotel
- Bank
- Office
- Hotel
- Supermarket
- Retail

Only new buildings are covered by this document. For revamping projects, verify the compatibility of existing devices with the new Enerlin'X system using the EcoStruxure Power Commission configuration tool, or with the help of your local Schneider Electric support.

Act On the panel

Smart Panels: power management has never been simpler

>



3

I-Line Smart cell



On local network

Devices web pages



On internet

>

EcoStruxure[™] Facility Expert

chnei



EcoStruxure Power Commission



Measure



PowerPact[™] H/J/L

PowerTag NSX



Sepam[™] 20







MasterPact[™] NT MasterPact NW







PowerTag





IO module

Power meter



breaker



MasterPact MTZ Energy meter

Network architecture case study

The network communication architecture is detailed below:



Network communication architecture

Ethernet communication network

Communication network separation

Com'X enables to separate the Ethernet communication network of the electrical devices from IT communication network of the building.

Ethernet device discovery: DPWS

Devices connected to the Ethernet network are automatically detected and identified using DPWS (device profile for web services) embedded in Microsoft Windows Vista, Windows 7 and Windows 10.

Connect your computer to the Smart Panels Ethernet network or directly to a device. Open Windows Explorer and click on "Network."

Double click a device to access its webpages.

Note: Connection via routers is not compatible with the DPWS feature: a router stops this kind of web service.

In this selected architecture, the connection to the local Ethernet network enables DPWS discovery.

IP addressing

An Internet router is used to connect the electrical installation to EcoStruxure[™] Facility Expert. The Internet router provides an Ethernet DSL connection and delivers the IP addresses of the Com'X (E1 Ethernet port).



Internet router DHCP setting

DD386019.eps

Then IP addresses of electrical devices are provided in DHCP mode by the Com'X (E2 Ethernet port) to Enerlin'X Acti9 Smartlinks and IFEs devices.

IFE-NS3	10.25.1.66
IFE-NS1	10.25.1.71
IFE-NT	10.25.1.68
IFE-NS2	10.25.1.65
IFE-SD	10.25.1.73
Incomer-MTZ	10.25.1.72
SLIP-SD	10.25.1.69
ComX510_F958E2	10.25.1.1
SmartLink SI	10.25.1.67

IP addressing table

Modbus communication network

The Enerlin'X devices ensure auto-adaptation of the Modbus communication parameters, except for the setting of the Modbus address. The table below shows the Modbus addresses used in this guide:

Device type	Name	Location	Modbus address
Smartlink SL	SLSL1	Market Switchboard	1
Smartlink SL	SLSL2	Market Switchboard	2
EM3150	EM_MS	Market Switchboard	3
Smartlink SL	SLSL1	Warehouse Switchboard	1
Smartlink SL	SLSL2	Warehouse Switchboard	2
EM3150	EM_WD	Warehouse Switchboard	3
PowerTag	PT1	Warehouse Switchboard	150
PowerTag	PT2	Warehouse Switchboard	151
PowerTag	PT3	Warehouse Switchboard	152
PowerTag	PT4	Warehouse Switchboard	153

Smartlink SL and PowerTag Coming Soon

Smarlink SL and PowerTag devices will soon be available in North America.

Table of Contents

10

56

EcoStruxure[™] Power Commission 1.1

1.1.	Introduction	10
1.2.	Device Modbus addressing	10
1.3.	Project creation	13
1.4.	Device discovery	20
1.5.	Check Firmware versions	35
1.6.	LV circuit breaker system	39
1.7.	Acti9 Smartlink system	46

Com'X webpages

I configure

devices

2.1.	First start	56
2.2.	Check Firmware version	56
2.3.	Adding devices in Com'X	56
2.4.	Network setting	56
2.5.	Cloud connection	57
2.6.	Events activation	57
2.7.	Publication	57

l commission 🦳	EcoStruxure™ Facility Expert	58
~	3.1. Introduction	58
	3.2. Prerequisites	59
	3.3. Initial setup	60
	3.4. Declaring circuit breaker asset	60
	3.5. Creating a panelboard asset and pairing an alarm to the panelboard	60
	3.6. Checking the assets import in the mobile application	61
	3.7. Optional settings	61

Troubleshooting

62

Appendix 70

1.1. Introduction

Smart Panels' system configuration and monitoring tools include the following:

- a. EcoStruxure Power Commission software for LV circuit breakers setting and monitoring
 - (IFE IO module Acti9 communication system electrical protection settings, etc.).
 - b. Com'X device webpages setting and monitoring.

1.1.1. Prerequisites

The Smart Panels electrical switchboards and the Enerlin'X devices should be powered on. The following sections detail the addressing of Modbus serial line devices, the project creation with EcoStruxure Power Commission software and the device discovery. Then, the configuration of LV breaker digital system and Acti9 communication system is presented.

1.1. Device Modbus addressing

In this section, the basic hardware settings are retained for each type of communication device included in the Smart Panels. These single settings should be applied before the system is configured.

1.1.1. Acti9 Smartlink system

First step is the installation of the Acti9 system, then depending on Acti9 Smartlink type, the hardware settings of communication are detailed below.



Modbus version

Modbus slave addressing with rotary switch (Modbus address should be unique).

1.1.2. IFM

Modbus addresses:

Modbus addresses should be set with the two rotary switches (X1 and X10 symbols). The X10 symbol refers to the tens and the X1 symbol to the units.

Example:

To set the Modbus address to 4, proceed as follows:

- IFM rotary switch:
 - c. Set the X10 switch to 0.
 - d. Set the X1 switch to 4.
 - e. Turn the padlock switch to the unlocked position.

Verify the connection between the Enerlin'X IFM and the circuit breaker: press the test button on the IFM and visually check that the associated MicroLogic trip unit flashes simultaneously (ON: 1000 ms/OFF: 1000 ms):





Rotary Switch Modbus addressing





1.1.3. IO module application

The IO module provides predefined applications for circuit breaker management. It is an Input/Output interface for PowerPact and MasterPact circuit breakers. In this guide, one IO module is used for most of the main circuit breakers with cradle management (Connected – Disconnected – Test Positions).

IO Module Identification Setting

Two IO modules can be used for the same breaker connected to a ULP system (IO Module 1 or IO Module 2).

When 2 IO modules are connected in the same ULP network, the 2 IO modules are differentiated by the position of the dip switches located on the bottom of the IO module:

IO Module Predefined Application

The application rotary switch is used to select predefined applications. The switch has 9 positions with each position assigned to a predefined application. The factory set position is application 1.

The Predefined Applications are summarized in the table below:

Application rotary switch position	Predefined application	Description
1	Cradle management	Monitors the position of the circuit breaker in the cradle
2	Circuit breaker operation	Controls the opening and closing of the circuit breaker by using the control mode (local or remote) and the close inhibit order
3	Energy Reduction Maintenance Setting (ERMS)	For additional information on ERMS, refer to bulletin no. <u>NHA67346</u>
4	Light and load control	Controls the light and load application
5-8	Spare	Future evolution
9	Custom	Performs the user-defined applications with the IO module

To validate the change of application, press the front face button "T" for 5 s or power cycle the module.

On IO module 2 application 9 should be selected.

1.1.4. EcoStruxure Power Commission introduction

EcoStruxure Power Commission software is the main system configuration tool for Smart Panels. EcoStruxure Power Commission assists different types of users throughout the life cycle of your electrical installation:

- f. Panel builders: for factory commissioning, EcoStruxure Power Commission provides communication reports and enables to check the correct cabling of the digital components.
 - g. Installer: on site commissioning, electrical protection settings.
 - h. Operator and maintenance team: monitoring, advanced diagnosis, system upgrade.



EcoStruxure Power Commission software

1.1.5. How to get EcoStruxure Power Commission software

To get EcoStruxure Power Commission configuration software, go to https://www.schneider-electric.com/en/work/ products/product-launch/ecostruxure-power-commission/ and look for EcoStruxure Power Commission in product search bar.



1.2. Project creation

EcoStruxure Power Commission configuration software saves all electrical assets of the building with contextualization of loads. The software allows origination of assets and panels into projects or locations (IP addresses) for devices on a network.

The following section details the EcoStruxure Power Commission features (project creation after device discovery, check operation of circuit breaker, firmware upgrade maintenance operation).

How to create a project with EcoStruxure Power Commission



1. Click on "Create New Project."

EcoStruxure Power Commission		- 🗆 X
Project details		
	Project Name *	
	Project number	-
	Project propared By	
	Name	
	Your name	_
	Company name	
		-
	Company Logo	
	logo =S=.png BROWS	E
	NEXT These details would be reflected in reports.	
L		

2. Enter all the information related to your project, then click on "NEXT."

1

Project details				×
÷	END USER	SITE DETAILS		
	Site Information	Site Address		
	Site name	Street		
	Market segment	City	Zip code	
	Site contact name	Country	State	
	COM These Bit would	TINUE be reflected a reports.		
la la				

3. Enter all the information related about end user site details and select "CONTINUE."



- 4. Click on \bigcirc .
- 5. Click on "Switchboard."

Eco O truxure Power Commission	12345678-213 TEST	PORTS BATCH SETTINGS 🛛 🛱 🛱	COMMUNITIES + Schneider
SWITCHBOARD VIEW CON	MUNICATION VIEW		•
12345678-213	lş.	12345678-213	
		QR Code Que to a second secon	to use the
		Switchboard Type Socials* ULANSI	* Poue-Zone 4 *
		Serial Number Der werd number 1234977-233	ATT or Altogenerate
		Switchboard documents	
	Đ		

- 6. Enter all the information related about the location of your switchboard ((1))
- 7. Then, you can create a QR code for your switchboard:
 - a. Enter your serial number (2).
 - b. Then, click on "SAVE" (3).
 - c. Or, click on "AUTOGENERATE" (3).



8. The QR code is now generated. Hit "SAVE" to save your project.

Ecol truxure Power Commission 12345678	8-213 TEST REPORTS BATCH SETTINGS	S < B B	
SWITCHBOARD VIEW COMMUNICATION			
0 12349878213		Image: Second secon	

9. Click on "DOWNLOAD" to download the unique QR code linked to this panel.

859.eps	EcoOtruster Power Commission 12345678-213 TEST	ероята ватон зеттола 🛛 🔀 🚓 🖻	COMMUNITIES + Sometimes
PB120	SWITCHBOARD VIEW COMMUNICATION VIEW		
BB4		12345078-213 IN Code IN Code IN Code In Transfer I	X
	e		

- 10. Select type of image and image format, then click on "DOWNLOAD."
- 11. Check that the file is downloading.
- 12. Close window.

Eco@truxure Power Commission 12345678-213 TEST REPORTS	BATCH SETTINGS 🛛 🛱 🥰 🛱	
SWITCHBOARD VIEW COMMUNICATION VIEW		<u>.</u>
1234577-213 II	N: N: V: N: V: N: N: N: <th></th>	

13. Then, click on "ADD COMMUNITY" to share your project.

5.	EcoStruxure Powe	er Commission		- 0 ×
	Add Comm	unities		?
	B	Communities are a group of people who will have access to the project documents you upload.		
		Give a unique name to your community You can rouse the community in other projects.		
	6	Community name		
		38EQI_SMS		
		Add people and assign rights 🥹		
	2	Nicolas.BERNARD@se.com	Admin	This project can be shared only
		Add mulitple addresses by pressing Space key or ENTER	/ Carrier	with these users
		(nathalie.champeaux@se.com X) Add professional email address	Reader	
		Add mulitple addresses by pressing Space key or ENTER		
		(laurent.sauze@se.com ×) Add professional email address	Writer	
				CREATE AND ADD

14. Enter the name of your community 1.

- 15 Add people and assign permissions (Admin, Reader, Writer) 2.
- 16. Then, click on "CREATE AND ADD."

EcoStruxure Power Commission Add Communities		- a ×
Select out of the existing communities or create new:		
2 Communities - 1 added	CREATE NEW	
✓ 38EQI_SMS		
SMS SMS		R
		Click on any community on the left and view the details here
		DONE

- 17. The new community is added.
- 18. Then, click on "DONE."

∫∏ Building ∨	Switchboard SRRq6CYQzQ
\bigcirc Switchboard \rag{matrix} \checkmark	Location Localisation
	Create a QR code for your Switchboard
	Switchboard Type* Prisma P
	Serial Number* SRRg6CYQ2Q
	The seriel number is not editable.
	Upload Documents to share
	Upload Documents to share

19. Then, upload the documents to share.

~	Switchboard SRRq6C1Q2Q	
H ~	Localisation	
	Create a QR code for your Switchboard	0
	Switchboard Type *	
	Prisma P 👻	
	Serial Number*	
	The serial number is not editable.	Single Line Drawing
		Design Drawings
	Upload Documents to share	Design Drawings Bill Of Material

20. You can define the type of document.



21. Click on 🔚 to save.

1.3. Device discovery

1.3.1. Advanced project creation

EcoStruxure Power Commission (EPC) software allows you to create a project by device discovery. Device discovery enables you to discover the devices in the network. It also provides an option to generate and save the report for the devices discovered in the network in PDF format. Connect your laptop to the local Ethernet network of the Smart Panels and click the Discovery button. NOTE: Alternatively, you can also discover devices from the home page of the EPC software by clicking on "Launch Device Discovery."

The software also allows you to uniquely identify your switchboard and share documentation linked to the switchboard with a community.

How to discover electrical devices directly connected to the Ethernet with EcoStruxure Power Commission

Esc@inner Power Commission 12345678-213 TEST REPORTS BATCH SETTINGS ☐ <€ @ ←	COMMUNITIES 💽	Schneider	
SMECHENNENNEN COMPARIZATION VEN		Ŷ	
Struture Power Cb			-
EcoGrue			Schne
Power C			U EI
Start by adding a			
switchboard or building to the project.			
Building (A)			
Switchboard 🔲			
Devices 🗎			
Devices			
Click on +. Click on "Devices."			
Click on Click on Devices. Click on "Devices." Mo IP DEVICES DISCOVERED This could be because - You may not be connected to the devices on the same network. The devices may not be powered on.			
Every set of the se	CLOSE	FIND DEV	nces

3. Click on "REFRESH."

EcoStrui	wre Power Commission					- 🗆 ×
Add	devices					0 ×
÷	Device List - 5 Found					Couldn't find the device?
	CONNECTION 个	DEVICE ADDRESS	CONNECTION TYPE	DEVICE TYPE 1	DEVICE NAME	
	8.104.82	255	Modbus TCP/IP	PM5563		
	8.104.10	255	Modbus TCP/IP	PM5563		
	8.104.9	255	Modbus TCP/IP	Compact NS - Powerpact P/R - P		
	8.104.11	255	Modbus TCP/IP	PowerPact HJL E		
	8.104.83	255	Modbus TCP/IP	Masterpact P	Micrologic P	

4. Auto discovery in progress.

5. By default, all devices are selected. Deselect all devices.

EcoStrux	xure Power Commission				- 🗆 X
Add	devices				◎ ×
←	Device List - 5 Found				Couldn't find the device?
		DEVICE ADDRESS	CONNECTION TYPE	DEVICE TYPE 1	DEVICE NAME
	8.104.82	255	Modbus TCP/IP	PM5563	
	3.104.10	255	Modbus TCP/IP	PM5563	
	8.104.9	255	Modbus TCP/IP	Compact NS - Powerpact P/R - P	
	8.104.11	255	Modbus TCP/IP	PowerPact HJL E	
	8.104.83	255	Modbus TCP/IP	Masterpact P	Micrologic P
					FIND DEVICES

- 6. Select the devices of your choice.
- 7. Then, click on "FIND DEVICES."

÷	Device List - 5 Found				Couldn't find the device?
		DEVICE ADDRESS	CONNECTION TYPE		DEVICE NAME
	3.104.82	255	Modbus TCP/IP	PM5563	
	8.104.10	255	Modbus TCP/IP	PM5563	
	8.104.9	255	Modbus TCP/IP	Compact NS - Powerpact P/R - P	
	8.104.11	255	Modbus TCP/IP	PowerPact HJL E	
	8.104.83	255	Adding devices to project	Masterpact P	Micrologic P

- 8. Auto discovery of devices selected.
- 9. Then, click on "ADD DEVICE."

1

10. Adding devices in progress.



- 11. At the end of the process, this window appears.
- 12. Click on 🔄 to save the project.

How to discover electrical devices connected through Modbus gateways with EcoStruxure Power Commission

	Excontraction 12345678-213 TEST REPORTS BATCH SETTINGS E 🗟 🗠 🛱	COMMUNITIES 🛞 Schreider	
	SWITCHBOARD VIEW COMMUNICATION VIEW	e e e e e e e e e e e e e e e e e e e	
EcoStruxure Power (q, ⊳	-	- <u> </u>
	æ C		Schneider
SWITCHBOARD			e
	$\widehat{\mathcal{V}}$		
	Start by adding a switchboard or building to the project.		
	\frown		
	Building A		
	Switchboard		
	Devices E C2		
·			

- 1. Click on 🛨.
- 2. Click on "Devices."

EcoStru Add	wure Power Commission				-	0	×
Find	devices via: IP	<u>•</u>					
Auto	o discovered IP devices - 9				RE	FRES	H
	CONNECTION	ADDRESS	NAME	MAC ADDRESS			
\checkmark	10.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:6E:5A			
	10.25.1.95	Add between 1-255	Acti9SIB	00:80:F4:E4:16:8A			
~	10.25.1.205	Add between 1-255	IFEE3A3FC	00:80:F4:E3:A3:FC			
~	10.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C			
V	10.25.1.2	Add between 1-255	ComX210_F99B38	00:80:67:F9:9B:38			
	10.25.1.181	Add between 1-255	IFEe303f8	00:80:F4:E3:03:F8			
-	40.05.4.455	Add between 1-255	IEE030570	00-90-54-53-05-74			
				CLOSE	FIND DE	VICES	

- 3. Auto discovery in progress.
- 4. By default, all devices are selected. Deselect all devices.

EcoStruxure P	Power Commission				- 0
Add devi	ICES				
Find device	ces via: IP	•			
Auto dis	covered IP devices	- 9			REFRESH
	CONNECTION	ADDRESS	NAME	MAC ADDRESS	
	0.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:6E:5A	
1	0.25.1.95	1.3	Acti9SIB	00:80:F4:E4:16:8A	
	0.25.1.205	Add between 1-255	IFEE3A3FC	00:80:F4:E3:A3:FC	
□ 1	0.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C	
1	0.25.1.2	Add between 1-255	ComX210_F99B38	00:80:67:F9:9B:38	
1	0.25.1.181	Add between 1-255	IFEe303f8	00:80:F4:E3:03:F8	
Π.	0 0E 4 4EE	Add between 1-255	166-3067A	00-90-64-69-05-74	
				CLOSE	IND DEVICES

- 5. Select the device of your choice.
- 6. Add the Modbus address.

1

7. Then, click on "FIND DEVICES."

EcoStrux Add d	ure Power Commission				- 0
÷	Device List - 4 Found	d			
 Image: A start of the start of		DEVICE ADDRESS	CONNECTION TYPE	DEVICE TYPE 1	DEVICE NAME
~	10.25.1.95	255	Modbus TCP/IP	Smartlink SI B	Acti9SIB
~	10.25.1.95	1	Modbus TCP/IP via Gateway	Smartlink Modbus	
	10.25.1.95	2	Modbus TCP/IP via Gateway	Smartlink Modbus	
~	10.25.1.95	3	Modbus TCP/IP via Gateway	iEM3150	Energy Meter
					CLOSE ADD DEVICE
8. A	Auto discovery of	devices selected.			
Э. Т	Then, click on "AE	DD DEVICE."			act NSX E
10. A	Adding devices in	progress.	Add	ing devices to project	



11. At the end of the process, this window appears.

12. Click on \square to save the project.

How to discover PowerTag sensors with EcoStruxure Power Commission



Click on +.
 Click on "Devices."

	levices				
ind d	evices via: IP *				
Auto	discovered IP devices - 9				REFRE
~	CONNECTION	ADDRESS	NAME	MAC ADDRESS	
2	10.25.1.181	Add between 1-255	IFEe303/8	00:80:F4:E3:03:F8	
	10.25.1.205	Add between 1-255	IFEE3A3FC	00:80:F4:E3:A3:FC	
	10.25.1.2	Add between 1-255	ComX210_F99B38	00:80:67:F9:9B:38	
1	10.25.1.1	Add between 1-255	ComX210_F9E1CA	00:80:67:F9:E1:CA	
ŧ.	10.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C	
	10.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:6E:5A	
	10.25.1.95	Add between 1-255	Acti9SIB	00:80:F4:E4:16:8A	
	10.25.1.155	Add between 1-255	IFEe3057a	00:80:F4:E3:05:7A	
	10.25.1.193	Add between 1-255	IFEe3a400	00:80:F4:E3:A4:00	
				CLOSE	FIND DEVIC

3. Auto discovery in progress.

PB120686.eps

4. By default, all devices are selected. Deselect all devices.

EcoStrut	xure Power Commission			- 0
Add o	devices			
Find d	levices via: IP *			
Auto	discovered IP devices - 9			REFRESI
	CONNECTION	ADDRESS	NAME	MAC ADDRESS
	10.25.1.181	Add between 1-255	IFEe303/8	00:80:F4:E3:03:F8
	10.25.1.205	Add between 1-255	IFEE3A3FC	00/80.F4/E3/A3/FC
	10.25.1.2	Add between 1-255	ComX210_F99B38	00/80:67:F9:98:38
	10.25.1.1	Add between 1-255	ComX210_F9E1CA	00:80:67:F9:E1:CA
	10.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C
	10.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:8E:5A
0	10.25.1.95	Add between 1-255	Acti9SIB	00:80:F4:E4:16:8A
	10.25.1.155	Add between 1-255	IFEe3057a	00:80:F4:E3:05:7A
		Add between 1-255	IFEe3a400	00:80:F4:E3:A4:00

- 5. Select the Acti9SID device.
- 6. Then, click on "FIND DEVICES."

costruxure Power Commission					- 0
Add devices					
Device List - 1	Found				
	DEVICE ADDRESS	CONNECTION TYPE		DEVICE NAME	
10.25.1.127	255	Modbus TCP/IP	Smartlink SI D	Acti9SID	
				CLOSE	ADD DEVICE

7. Then, click on "ADD DEVICE."

EcoStruxure Power Commission							-	a ×
Eco @truxure Power Commis	ssion Commissioning guide	TEST REPORTS	BATCH SETTINGS	8 ~ 8 4			•	Schneider Electric
								Ŷ
Tableau électrique Gateways & Servers	*		Acti9SID Smartlink - SI D S	Serial : RN17W500122				
Acti9SID			Product range Date/Time	: Smartlink DEVICE Connection:	Product mo	xdet : Si D		
	Configure		s connected to your	Device Check up Check and test the dev energy readings for the connected to your Sma	ice connections and view wireless devices rtlink	Firmware View the firmware status and	d upgrade if re Connect to	quired. o device
	-flink							
	÷							

- 8. Then, click on "CONNECT TO DEVICE."
- 9. Click on "Configure."

EcoStruxure Power Commission		- 0
Eco O trusture Power Commission	Commissioning guide TEST REPORTS BATCH SETTINGS 🔄 😋 🚭	🖻 😞 Soggie
SWITCHBOARD VIEW COMM	UNICATION VIEW	
🖗 Tableau électrique	 Acti9SID Smartlink, Serial : RN17W500122 	WRITE TO DEVICE WRITE TO PROJECT REFRESH A
Gateways & Servers	Wireless devices	Device Values
Acti951D		
	SCAN	

10. Click on "SCAN."

1

< Acti9	SID k Serial : RN17W500122	W	RITE TO
Wireless devices			
SCAN	 Scanning wireless devices 	1 minute(s) 57 seconds remaining	8

11. The scan has started. Wait two minutes for scan to complete.

EcoStruxure Power Commission									-	o ×
EcoØtrucare Power Commission	Commissioning guide	TEST REPORTS BAT	CH SETTINGS	8 % 8	e				•	Schneider
SWITCHBOARD VIEW COMMUN	VICATION VIEW									P
(j) Tableau électrique	~ < /s	Acti9SID Imartlink Serial : RN17	W500122				WRITE	O DEVICE	WRITE TO PROJECT RE	FRESH ALL
Gateways & Servers Acti9SID	Wireless	devices							Device Values	1
	sc	AN Remove All								
	Numbr	er of wireless devices disco Asset name	vered : 11 Label	RF-ID		Usage	Connection			
		PowerTag@150	PT150	D486	- L	ighting	Locate	1 ~		
	44	PowerTag@152	PT152	D49B	L	ighting	Locate	1 ~		
	44	PowerTag@153	PT153	00E2	1 4	ighting	Locate	1 ~		
	19	PowerTag@154	PT154	6 B49	1 4	ighting	Locate	*		
	10	PowerTag@155	PT155	42E0	1 4	ighting	Locate	*		
	(1) (1)	PowerTag@156	PT156	D484	1 4	ighting	Locate	1 ×		
	10	PowerTag@157	PT157	584E	1 4	ighting	Locate	• ~		
	95	PowerTag@158	PT158	D4A5	1 4	ighting	Locate	₩ ~		
	60.0	PowerTag@159	PT159	D47C	1 1	ighting	Locate	W ~		
	(**)	PowerTag@160	PT160	D4AD	1 1	ighting	 Locate 	• •		
	(1)	PowerTag@161	PT161	0031	I I	ighting	Locate	*		

12. After editing, click on WRITE TO DEVICE."



13. Click on "PROCEED."

EcoStruxure Power Commission											-	٥
EcoOtroure Power Commission Comm	issioning guide TE	ST REPORTS BAT	CH SETTING	8 8	% ₿	8					•	Schneide
SWITCHBOARD VIEW COMMUNICATI	ON VIEW											
Tableau électrique	<	ti9SID rtlink - Serial : RN17	W500122						WRITE 1	TO DEVICE	WRITE TO PROJECT	FRESH A
Gateways & Servers	Wireless de	vices							_		The Vilue	
Acti9SID	•										00000 48000	
	SCAN	Remove All										
	Number o	f wireless devices disco	vered : 11									
		Asset name	Label		RF-ID		Usage	Connectio	m			
	14 A	PowerTag@150	PT150	T	D486	Т	Lighting	•	Locate	*	PowerTag@150	ŀ
	18 A	PowerTag@152	PT152	1	D49B	1	Lighting	•	Locate	窗~	PowerTag@152	
	14	PowerTag@153	PT153	1	00E2	- I	Lighting	•	Locate	1 ~	PowerTag@153	1
	10	PowerTag@154	PT154	1	5B49	1	Lighting	•	Locate	會 ~	PowerTag@154	ł
	- Q1	PowerTag@155	PT155	1	42E0	1	Lighting	•	Locate	*	PowerTag@155	i.
	dia.	PowerTag@156	PT156	1	D484	1	Lighting	•	Locate	*	PowerTag@156	ł.
	5	PowerTag@157	PT157	1	5B4E	1	Lighting	•	Locate	*	PowerTag@157	
	44). 	PowerTag@158	PT158	1	D4A5	1	Lighting	•	Locate	*	PowerTag@158	i.
	eth .	PowerTag@159	PT159	1	D47C	1	Lighting	•	Locate	1 ~	PowerTag@159	1
	64	PowerTag@160	PT160	1	D4AD	1	Lighting	•	Locate	*	PowerTag@160	1
		PowerTag@161	PT161	1	0031	1	Lighting		Locate	前~	PowerTan@161	

14. Then, click on "WRITE TO PROJECT."



15. Click on "PROCEED."

PB120698.eps

PB120696.eps

EcoStruxure Power Commission										-	0
EcoØtracare Power Commission	Commissioning guide	TEST REPORTS	BATCH SETTING	s E	3 < ₿	8				•	Schneider
SWITCHBOARD VIEW CON	MUNICATION VIEW.										
Tableau électrique Gateways & Servers	~ 🤇	Acti9SID Smartlink Serial : I	RN17W500122					WRITE	TO DEVICE	WRITE TO PROJECT	EFRESH AL
Acti9SID	• Wirel	ess devices								Device Values	ð.
	Nu	SCAN Remove All mber of wireless devices	discovered : 11								
		Asset name	Label		RF-ID		Usage	Connection			
	4	PowerTag@150	PT150	1	D486	1	Lighting	Locate	*	PowerTag@150	0
	d	PowerTag@152	PT152	1	D49B	I.	Lighting	Locate	*	PowerTag@152	2
	4	PowerTag@153	PT153	1	00E2	1	Lighting	Locate	* ~	PowerTag@153	3
		PowerTag@154	PT154	1	5B49	- 1	Lighting	Locate	1 ~	PowerTag@154	4
		PowerTag@155	PT155	1	42E0	1	Lighting	Locate	* ~	PowerTag@155	5
	4	PowerTag@156	PT156	1	D484	1	Lighting	Locate	* ~	PowerTag@156	6
		PowerTag@157	PT157	1	584E	1	Lighting	 Locate 	*	PowerTag@157	7
	<	PowerTag@158	PT158	1	D4A5	1	Lighting	Locate	*	PowerTag@158	8
	4	PowerTag@159	PT159	1	D47C	1	Lighting	Locate	* ~	PowerTag@159	9
	4	PowerTag@160	PT160	1	D4AD	1	Lighting	Locate	* ~	PowerTag@160	0
		PowerTag@161	PT161	1	0031	L	Lighting	Locate	1 ~	PowerTag@161	1



EcoStruxure Power Commission			- a x
EcoOtrosure Power Commission Commissioni	ng guide TEST REPORTS BATCH SETTINGS	5 ~ t. t.	Schreider
SWITCHBOARD VIEW COMMUNICATION VIE	N (<u> </u>
Tableau électrique Gateways & Servers	Acti9SID • Smartlink - SI D S	@ erial : RN17W500122	
Acti9SID	Product range Date/Time	: Smartlink Product r : 01/01/2000 01:06:06 🖉	nodel : SI D
	DISCONNE	Connection: 🖉 Remote	
	Configure the wireless devices connected to your Smartlink	Check and test the device connections and view energy readings for the wireless devices connected to your Smartlink	View the firmware status and upgrade if required.
A			
	5		

17. Click on "DISCONNECT."

PB 120699.eps

EcoStruture Power Commission			- o ×
EcoOtrocure Power Commission Commissionin	g guide TEST REPORTS BATCH SETTINGS		Schneider
SWITCHBOARD VIEW COMMUNICATION VIEW			P
 Tableau électrique Gateways & Servers 	Acti9SID Smartlink - SI D Se	erial : RN17W500122	
Acti9SID	Product range Date/Time	: Smartlink Product m	nodel : Si D
	A		
	CONNECT TO D	EVICE Connection: 🤣 Remote 🗸	
	Configure Configure the wireless devices connected to your Smartlink	Check and test the device connections and view energy readings for the wireless devices	View the firmware status and upgrade if required.
		connected to your Smartlink	
			Connect to device
+			

18. Click on \square to save the project.

EcoStruxure Power Commission software two different displays for the electrical installation:

- Switchboard view: shows the electrical topology of the installation. :
- Communication view: shows the communication network architecture.

1.3.2. Communication test report

EcoStruxure Power Commission software provides an easily accessible communication test report to verify that communication links, device hardware settings, and cabling have been correctly installed. This can be used to confirm communication setting conformity in the inspection report on the building of the electrical panel. This test report feature is available without an Internet connection.

EcoStruxure Power Commission		- 0
Power Commission	ommissio 🚺 TEST REPORTS BATCH SETTINGS 🛛 🖫 🧠	Communities 🕣 🧒 Schneid
SWITCHBOARD VIEW COMMUN		
🕅 Switchboard	Communication	
Gateways & Servers		
Acti9SIB	ATION VIEW Breaker Status and Cra	(• <u> </u>
Acti9SID		
Circuit Breakers	witchboard	
Pump1		Test Advice Test
HVAC	Switchboard Type *	븟훉쳛븠
Pump2		
NT		or Autogenerate
IFEe303f8		Tel 1245 40365
	Upload Documents to share	
	Add communities to give access to the	
	Cocuments you upload.	
	ADD COMMUNITY	

1. Click on "TEST."

PB120701.eps

2. Click on "Communication."

Commu	inication Test			
ielect the	e devices to perform the test:			
	DEVICE NAME	DEVICE ADDRESS	CONNECTION	MODULE
~ 🗹	Switchboard			
	Acti9SIB	255	10.25.1.95	Smartlink SI B
	Pump1	255	(Lag) 10.25.1.155	Compact NSX E
				IFE
~	HVAC	255	(四) 10.25.1.193	Compact NSX E
				IFE
~	Pump2	255	(益) 10.25.1.157	Compact NSX E
				IFE
	NT	255	(Jacobia) 10.25.1.205	Masterpact E
				CLOSE RUN TES

3. Click on "RUN TEST."

Power Commission				- 0
ication Test				•
Results - 0 / 12 modules passed				
CE NAME	DEVICE ADDRESS	CONNECTION	MODULE	RESULT
chboard				
SIB	255	10.25.1.95	Smartlink SI B	Testing
1	255	10.25.1.155	Compact NSX E	Waiting
			IFE	Waiting
	255	10.25.1.193	Compact NSX E	Waiting
			IFE	Waiting
2	255	10.25.1.157	Compact NSX E	Waiting
			IFE	Waiting
	255	10.25.1.205	Masterpact E	Waiting
				CLOSE GENERATE REPORT
	over Commission Ication Test Results - 0 / 12 modules passed E NAME hboord 18 1 2	Device Commission Ication Test Results - 0 / 12 modules passed E NAME DEVICE ADDRESS Iboard 255 IB 255 I 255 I 255 I 255 I 255 I 255 I 255	swer Commission cation Test Results - 0 / 12 modules passed CONNECTION () E NAME DEVICE ADDRESS CONNECTION () Imboard CONNECTION () IB 255 ID.251.155 I 255 ID.251.155 I 255 ID.251.1193 I 255 ID.251.1193	Device ADDRESS CONNECTION @ MODULE Results - 0 / 12 modules passed CONNECTION @ MODULE E NAME DEVICE ADDRESS CONNECTION @ MODULE IB DEVICE ADDRESS CONNECTION @ MODULE IB 255 Smartlink SI B II 255 Compact NSX E IFE IFE 2 255 Compact NSX E IFE IFE 2 255 Compact NSX E IFE IFE 2 255 ID 251.1157 Compact NSX E IFE IFE 2 255 ID 251.125 Mesterpact E

4. Wait until the test is completed.

PB120704.eps

1

Once the test is done, you will receive one of two reports:

Eco:	Struxure Power Commission					- 0 ×
Co	mmunication Test					0
÷	Test Results - 12 / 12 modules passed					
	DEVICE NAME	DEVICE ADDRESS	CONNECTION ()	MODULE	RESULT	
^	Switchboard					
	Acti9SIB	255	10.25.1.95	Smartlink SI B	ø	
	Pump1	255	(10.25.1.155	Compact NSX E	ø	
				IFE	•	
	HVAC	255	10.25.1.193	Compact NSX E	ø	
				IFE	•	
	Pump2	255	10.25.1.157	Compact NSX E	ø	
				IFE	•	
	NT	255	10.25.1.205	Masterpact E	ø	
					CLOSE GENE	RATE REPORT

Report with no errors:

1

Report with errors:

ommunication Test				
- Test Results - 9 / 12 modules	s passed			
DEVICE NAME	DEVICE ADDRESS	CONNECTION ()	MODULE	RESULT
Acti9SIB	255	10.25.1.95	Smartlink SI B	•
Pump1	255	10.25.1.155	Compact NSX E	Add Comments
			IFE	ø
HVAC	255	10.25.1.193	Compact NSX E	ø
			IFE	ø
Pump2	255	10.25.1.157	Compact NSX E	ø
			IFE	ø
NT	255	10.25.1.205	Masterpact E	Add Comments
			IFE	Add Comments

5. If you have an error, check the connection of ULP and Ethernet cables.

6. After resolving the error, click on "GENERATE REPORT."

Project details				>
÷		END USER SITE DETAILS		
	Site Information	Site Address		
	Site name	Street		
	Market segment	- City	Zip code	
	Site contact name	Country	• State •	
		CONTINUE a details would be reflected in proves.		
k⊋				

7. Click on "CONTINUE."

Report showing PASSED:

1



Report showing FAILED:



1.3.3. Check firmware versions

How to check devices firmware baseline with EcoStruxure Power Commission



1. Click on "Launch Firmware Upgrade."

EcoStru	xure Power Commission				- 🛛 ×				
Firmware Upgrade									
Find o	Find devices via: IP •								
Auto	Auto discovered IP devices - 9								
	CONNECTION	DEVICE ADDRESS	DEVICE NAME	MAC ADDRESS					
	10.25.1.181	Add between 1-255	IFEe303f8	00:80:F4:E3:03:F8					
	10.25.1.205	Add between 1-255	IFEE3A3FC	00:80:F4:E3:A3:FC					
	10.25.1.2	Add between 1-255	ComX210_F99B38	00:80:67:F9:9B:38					
	10.25.1.1	Add between 1-255	ComX210_F9E1CA	00:80:67:F9:E1:CA					
~	10.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C					
	10.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:6E:5A					
	10.25.1.95	Add between 1-255	Acti9SIB	00:80:F4:E4:16:8A					
	10.25.1.155	Add between 1-255	IFEe3057a	00:80:F4:E3:05:7A					
	10.25.1.193	Add between 1-255	IFEe3a400	00:80:F4:E3:A4:00					
				CLOSE SHOW F	RMWARE DETAILS				

2. By default, all the devices are selected.
| EcoStrux | rure Power Commission | | | | - 🛛 × | | | | | |
|----------|--------------------------------|-------------------|----------------|-------------------|-----------------------|--|--|--|--|--|
| Firmw | vare Upgrade | | | | | | | | | |
| Find d | Find devices via: IP • | | | | | | | | | |
| Auto | Auto discovered IP devices - 9 | | | | | | | | | |
| | CONNECTION | DEVICE ADDRESS | DEVICE NAME | MAC ADDRESS | | | | | | |
| | 10.25.1.181 | Add between 1-255 | IFEe303f8 | 00:80:F4:E3:03:F8 | | | | | | |
| | 10.25.1.205 | Add between 1-255 | IFEE3A3FC | 00:80:F4:E3:A3:FC | | | | | | |
| | 10.25.1.2 | Add between 1-255 | ComX210_F99B38 | 00:80:67:F9:9B:38 | | | | | | |
| | 10.25.1.1 | Add between 1-255 | ComX210_F9E1CA | 00:80:67:F9:E1:CA | | | | | | |
| | 10.25.1.157 | Add between 1-255 | IFEe3057c | 00:80:F4:E3:05:7C | | | | | | |
| | 10.25.1.127 | Add between 1-255 | Acti9SID | 00:80:F4:8F:6E:5A | | | | | | |
| | 10.25.1.95 | 1-3 | Acti9SIB | 00:80:F4:E4:16:8A | | | | | | |
| | 10.25.1.155 | Add between 1-255 | IFEe3057a | 00:80:F4:E3:05:7A | | | | | | |
| | 10.25.1.193 | Add between 1-255 | IFEe3a400 | 00:80:F4:E3:A4:00 | | | | | | |
| | | | | CLOSE | SHOW FIRMWARE DETAILS | | | | | |

3. Type the range of addresses for the device(s) that you want to see firmware details on (for example, 1-3 for the Acti9SIB).

EcoStrux	xure Power Commission			- a	×						
Firmv	vare Upgrade			6	0						
Find d	Find devices via: IP *										
Auto	Auto discovered IP devices - 9										
\checkmark	CONNECTION	DEVICE ADDRESS	DEVICE NAME	MAC ADDRESS							
~	10.25.1.181	Add between 1-255	IFEe303f8	00:80:F4:E3:03:F8							
~	10.25.1.205	Add between 1-255	IFEE3A3FC	00:80:F4:E3:A3:FC							
~	10.25.1.2	Add between 1-255	ComX210_F99B38	00:80:67:F9:9B:38							
	10.25.1.1	Add between 1-255	ComX210_F9E1CA	00:80:67:F9:E1:CA							
~	10.25.1.157	Add between 1-255	IFEe3057c	00:80:F4:E3:05:7C							
~	10.25.1.127	Add between 1-255	Acti9SID	00:80:F4:8F:6E:5A							
~	10.25.1.95	1-3	Acti9SIB	00:80:F4:E4:16:8A							
~	10.25.1.155	Add between 1-255	IFEe3057a	00:80:F4:E3:05:7A							
~	10.25.1.193	Add between 1-255	IFEe3e400	00:80:F4:E3:A4:00							
				CLOSE SHOW FIRMWARE DETAILS							
					/						

4. Click on "SHOW FIRMWARE DETAILS."

EcoStruxure Power Co	ommission					- a
Firmware Upg	jrade					
Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action
10.25.1.2	255	COMX210	C		5.6.9	🗞 UPGRADE
10.25.1.127	255	Smartlink SI D	C	V2.2.7	V2.2.7	None
10.25.1.95	1	Smartlink Modbus	C	V1.3.7	V1.3.7	None
10.25.1.95	2	Smartlink Modbus	C	V1.3.7	V1.3.7	None
10.25.1.205	255	BCM_ULP	C	V4.1.9	V4.1.9	None
		IO 1	C	003.003.011	003.004.005	C UPGRADE
		D IFE	ø	003.007.024 V003.007.024	003.009.010 V003.009.010	C UPGRADE
10.25.1.95	255	م Smartlink SI B	C	V2.2.6	V2.2.7	C UPGRADE
			-			CLOS

5. If you want to upgrade the firmware of a device, you can click on "UPGRADE."

6. Enter password.



7. Click on "OK."

1

EcoStruxure Power C	Commission					– a ×
Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action
		ife ife	¢	003.007.024 V003.007.024	003.009.010 V003.009.010	WUPGRADE None
10.25.1.95	255	💯 Smartlink SI	B S	V2.2.6	V2.2.7	📎 UPGRADE None
10.25.1.181	255		Step 1/3 Preparing for firmware upgrade		003.011.000	DPGRADE None
		👪 elFE	C Do not disconnect the de	wice till the firmware upgrade is complete	003.009.010 V003.009.010 a.	CUPGRADE None
10.25.1.155	255	Micrologic	ø	V1.1.0	V1.1.0	None
		- IO 1	ů	003.003.011	003.004.005	🛞 UPGRADE None
		ife Ife	S	003.007.024 V003.007.024	003.009.010 V003.009.010	C UPGRADE
						CLOSE

8. The upgrade is in process.

1

EcoStruxure Power C	ommission					- a
Firmware Upg	rade					0 recommended action(s) REFRESH ?
Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action
10.25.1.2	255	COMX210	¢		5.6.9	C UPGRADE None
10.25.1.127	255	Smartlink SI D	C	V2.2.7	V2.2.7	None
10.25.1.95	1	Smartlink Modbus	C	V1.3.7	V1.3.7	None
10.25.1.95	2	Smartlink Modbus	C	V1.3.7	V1.3.7	None
10.25.1.205	255	BCM_ULP	S	V4.1.9	V4.1.9	None
		Di 1	C	003.003.011	003.004.005	る。UPGRADE None
		D IFE	C	003.007.024 V003.007.024	003.009.010 V003.009.010	None
10.25.1.95	255	師 Smartlink SI B	C	V2.2.6	V2.2.7	C UPGRADE None
		-	-			CLOSE

9. The upgrade is successfully complete.

1.4. LV circuit breaker system

The IFE and IO Module can be configured and tested using EcoStruxure Power Commission or via webpages embedded in the IFE device. The IFE and IO Module devices should be connected with correct addressing to operate effectively. The following steps are for the configuration with EcoStruxure Power Commission for a MTZ circuit breaker.

How to configure MasterPact MTZ with EcoStruxure Power Commission

EcoStruxure Power Commission						- 0 ×
Eco 9 truxure Power Commission	project07 TEST REPORTS	8 BATCH SETTINGS	8 < 5 6	COM	MUNITIES (=)	Schneider
SWITCHBOARD VIEW COMM						÷
Switchboard Circuit Breakers		MTZviaeIFE Masterpact MTZ - N	Aicrologic 0.0 X Serial : Ser	ial_Number		
MTZviaelFE		Application Type Product model Rated current Standard Breaker Accessori Assembly date Date/Time	: Distribution : Micrologic 0.0 X : 2500A : IEC ss : M2C : N/A	Product range Protection type Number of poles eIFE Commissioning da Environmental Sta	Product range : Masterpact MTZ Protection type : LSiG Number of poles :4-pole elFE :Yes Commissioning date :N/A Environmental Status	
		CONNECT TO	DEVICE Connection:	🔿 Direct 🥏 Remote	~	
	Configure Setup protection, alarms Communication paramet device		Device Check up View device status, measu device histories and logs	urements, View stat	Firmware w the System firmwar tus and upgrade if ne	e compatibility eded.
						onnect to device
	Digital Modules	S	Automatic trip tests	; I the basis		

- 1. Select the desired circuit breaker and the attached IFE component to connect to.
- 2. Click on "CONNECT TO DEVICE."

FN =									
EcoSt	ruxure Power Commission								- 0 /
	Power Commission	project07	TEST REPORTS	BATCH SETTINGS	8 ~ 5 6	COM	MUNITIES (+)	1	Schneider
SWIT	CHBOARD VIEW COMM	IUNICATION VI	EW						f
08	Switchboard	× .	Anna anna A	MTZviaelFE	• @				
С	ircuit Breakers	5		Masterpact wrz - wic	rologic 0.0 X Serial : Se	erial_Number			
N	ITZviaeIFE	•		Application Type	: Distribution	Product range	: Masterpact	MTZ	
		a a		Product model	: Micrologic 0.0 X	Protection type	: LSIG		
				Rated current	: 2500A	Number of poles	: 4-pole		
				Standard	: IEC	eIFE	: Yes		
				Breaker Accessories	: M2C 🖉	Commissioning da	ite : N/A		
				Assembly date	: N/A	Environmental Sta	tus : Normal		
				Date/Time	: 19/06/2019 13:36:33	Ø			
			Kiew Trip Curve	DISCONNEC	Connection	n: 🔿 Direct 🕑 Remote	 ✓ Passwor 	d Mana	gement 🔻
			Configure		Device Check up	۴	Firmware		
			communication paramet levice	s, IO's and ters of the	View device status, mea device histories and log-	surements, View s stat	w the System firm us and upgrade if	vare co needec	mpatibility I.
		•	Digital Modules	analities to the	Automatic trip test	ts			

- 3. Click on *C* to rename the product title to something more specific to the location (examples: "Feeder 3" or "Generator Disconnect").
- 4. Next, click on "Configure."

EcoStruxure Power Commission						- 6	ı ×
Eco Struxure Power Commission	project07	TEST REPORTS BATCH SETTINGS		f. 4	COM	imunities 🕀 🍖 Sch	eider
SWITCHBOARD VIEW COM	MUNICATION						(19
🗊 Switchboard	~	MTZviaeIFE Masterpact Serial : Serial_Number				WRITE TO PROJECT REFREE	SH ALL
Circuit Breakers MTZviaelFE		General Protection Alarms	IO Config	Communication	1	Device Values	
		General					
		Auto/manu mode		Automatic	~	Automatic	
		Remote control		Remote	*	Remote	
		Network					П
		Rated Voltage (V)		400	~	400	
		Rated frequency (Hz)		50	~	50	-1
		Power sign		Direct	~	Direct	- 1
		VT primary voltage (V)		•	690	690	- 1
	Ð	VT secondary voltage (V)		2	690	690	
	-						

- Click on "WRITE TO PROJECT." Now, you can configure Voltage, Frequency, and Mode (Automatic or Manual).
- 6. After configuring, select "Protection."

EcoStruxure Power Commission						- 0 ×
Eco G truxure Power Commission	project0	17 TEST REP	ORTS BATCH SETTINGS	~ 6 6	COMMUNITIES (=)	Schneider Electric
SWITCHBOARD VIEW COM						. P
Switchboard	~	MTZvia Masterpact	aeIFE t Serial : Serial Number	WRITE TO	O DEVICE WRITE TO PRO	JECT REFRESH ALL
Circuit Breakers MTZviaelFE	•	General Pr	otection Alarms IO Config	g Communication		Device Values
		BASIC	Long time Protection			
		OPTIONAL	Ir (x In)		1	
			Ir (A)		2500	
			Ir curve type SGA	Inverse time ((I²t = ON) 🗸	
			tr@6lr (s)	•	0,5	
			Last setting change into th	e device 0		
			Short time Protection			
			Isd (x Ir)	•	1,5	
	÷		Isd (A)	3750		

- 7. You can configure the long time protection and the short time protection.
- 8. After that, select "Alarms."

EcoStruxure Power Commission						- 0 ×
Eco @truxure Power Commiss	sion project0	7 TEST REPORT	S BATCH SETTINGS	8 < 5 6	COMMUNITI	ES (+) 📀 Schneider
	COMMUNICATION					·P
🕤 Switchboard	~	✓ MTZviael Masterpact	FE Serial : Serial_Number	WF		TO PROJECT REFRESH ALL
Circuit Breakers MTZviaeIFE	•	General Protec	tion Alarms	O Config Communication		Device Values
		Trip	Long Time (Ir) trip	Concerning of the second		
		Protection	Activation	Enable	~	Enable
		Operation	Priority	High	~	High
		Maintenance	Behavior	Latch	~	Latch
		Configuration				
		Communication	Short Time (Isd) trip			
		Metering	Activation	Enable	~	Enable
			Priority	High	~	High
			Behavior	Latch	~	Latch
	Ð		Instantaneous (li) tri	p		
			Activation	Enable	*	Enable

- 9. Configure the different alarms.
- 10. Then, select "IO Config."

EcoStruxure Power Commission					- 0 ×
Eco@truxure Power Commission	project07 TEST REPORTS	BATCH SETTINGS] ~ Ē Ē	COMMUNITIES	Schneider
SWITCHBOARD VIEW COM	IMUNICATION VIEW				e
Switchboard Circuit Breakers	✓	E erial : Serial_Number	WRITE	TO DEVICE WRITE TO PR	ROJECT REFRESH ALL
MTZviaeIFE	General Protect	ion Alarms IO C	Config Communication	_	Device Values
	M2C	Out1			
		Alarm Name	None	~	None
		Out2			
		Alarm Name	None	~	None
(+				

- 11. You can configure alarms on Out1 or Out2.
- 12. Then, select "Communication."

1

EcoStruxure Power Commission			- 0 ×
Eco @truxure Power Commission pro	ject07 TEST REPORTS BATCH SETTINGS 🛛 🖽 😋	COMMUNITIES 🕀 🧔	Schneider
SWITCHBOARD VIEW COMMUNIC			1 9
Circuit Breakers	✓ MTZviaeIFE Masterpact Serial : Serial_Number	WRITE TO DEVICE WRITE TO PROJECT	REFRESH ALL
MTZviaeIFE •	General Protection Alarms IO Config	Communication Device	e Values
	Bluetooth		
	Bluetooth mode	On v	Dn
	Bluetooth deactivation timeout (s)	900 S	900
	PadLock		
	Remote padlock position	Unlock v	llock

13. You can configure Bluetooth and padlock.

14. After the configuration for MasterPact is finished, select "WRITE TO DEVICE."

Additional operations:

- "Refresh" updates all settings related to the connected device. This is a global operation for the for the full set of device parameters.
- "Write to Project" allows the user to apply the settings from the device to the project. This function is
 used for partial operations, depending on the sections involved¹.
- "Write to Device" allows the user to send the parameters to the connected device. This function is
 used for partial operations, depending on the sections involved¹.

42 Life Is On Schneider

¹⁾ For instance, only Protection can be read from or written to the device. During the first connection, the full set of parameters is read from the device.

1.4.1. Input Output assignment

The IO module provides predefined applications (cradle management, breaker operation, load control, etc.) and allows the user to customize some inputs and/or outputs. To do this, the user should first assign the selected inputs/outputs s/he wishes to use in EcoStruxure Power Commission.

How to assign input of IO module application with EcoStruxure Power Commission

The IO module of the HVAC is used for the cradle application (predefined application 1). The digital input 4 is assigned to a piece of contact information showing the availability status of the MV/LV Power at the hypermarket transformer station. A temperature sensor which monitors the outside ambient air temperature is added to the Analog input of the IO module.

Note: A second IO module can be added to the circuit breaker communication system. In this case, predefined application 9 should be used to add user-defined applications (door contact information, fuse health, etc.).

EcoStruxure Power Commission							- 0 ×
EcoItruxure Power Commission	project07 TEST REPORTS	BATCH SETTINGS	8 4 5 6	CO	DMMUNITIES $(\overline{\underline{1}})$	Ø	Schneider
SWITCHBOARD VIEW COMM							Ŷ
Switchboard Circuit Breakers		Q1 via IFE Compact NSX - Micr	ologic 6.3 E Serial : 3N14273030)7			
MTZviaelFE		Application Type Product model	: Distribution : Micrologic 6.3 E	Product range Number of po	e : Compact les : 4-pole	NSX	
Q1 via IFE		Protection type IFE Date/Time	: LSIG : Yes	Rated current	: 630A : Yes		
		CONNECT TO D		Direct 🥏 Rem	ote 🗸		
	Configure Setup protection, alarms Communication parame device	s, IO's and ters of the	Device Check up View device status, measuremen device histories and logs	its,	Firmware View the System fir status and upgrade		
						Con	nect to device
	Ð						

1. Click on "CONNECT TO DEVICE."

EcoIntruxure Power Commission EcoIntruxure Power Commission	project07 TEST REPORTS	BATCH SETTINGS	8 ~ 5 6	COMMUN	IITIES (Ŧ)	-	Schneider Electric
SWITCHBOARD VIEW COM							e
Switchboard Circuit Breakers		Q1 via IFE Compact NSX - Mic	• 🖉 rologic 6.3 E Serial : 3N14273030	07			
MTZviaeIFE		Application Type	: Distribution	Product range	: Compact N	ISX	
Compact NSX E	Course and the second	Product model Protection type	: Micrologic 6.3 E : LSIG	Number of poles Rated current	: 4-pole : 630A		
Q1 via IFE	•	Date/Time	: Yes : 19/06/2019 15:15:28 🥒	10.1	: Yes		
	Configure Islan protective alan Communication paran device	DISCONNI ms. IO's and neters of the	Connection: C	Direct <table-cell> Remote 🗸</table-cell>	Passwor mware he System firm and upgrade i	rd Mana nware co if neede	gement

2. Click on "Configure."

EcoStruxure Power Commission					- 0 ×
Eco @truxure Power Commissio	on project0	7 TEST REPORTS BATCH SETTINGS 🛛 🗄 🗢	< 6. A	COMM	MUNITIES 🛞 🛷 Schneider
	COMMUNICATION	I VIEW			e
Switchboard	~	Q1 via IFE Compact N Serial : 3N142730307		WRITE TO DEVICE	WRITE TO PROJECT REFRESH ALL
Circuit Breakers MTZviaeIFE		General Protection Alarms IO Config	>		Device Values
Compact NSX E		Long time Protection			
Q1 via IFE	•	Ir Mode	On	*	On
		Ir (x In)	1		
		Ir pick-up high limit (A)	630	~	630
		Ir (A)		630	630
		tr@6Ir (s)	0.500	~	16.000
		Short time Protection			
		Isd Mode	On	~	On
	•	lsd (x lr)	•	1,5	5
		Isd (A)	945		

3. Click on "WRITE TO PROJECT." Then, click on "IO Config."

EcoStruxure Power Commission	n project(TERT REPOR		~			– 🗇 🗙
Power Commis switchboard view	communicatio		BATCH SETTINGS	~		SIMMONTHES (2)	D Electric
🕤 Switchboard	~	Q1 via IF Compact N	E Serial : 3N142730307		WRITE TO DEVICE	WRITE TO PRO	JECT REFRESH ALL
Circuit Breakers		General Prote	ction Alarms IO Con	fig			Device Values
MTZviaeIFE							
Compact NSX E		I/O Module 1	Counter pick-up value	•	5000		· ·
Q1 via IFE	•	SDX Module	Filter time(s)	•	0,003		
			Digital Input 4				
		<	Assignment reference	None			ser-defined Input 4
			Digital Input 5			-	
			Assignment reference	None	~	•	None
			Digital Input 6				
			Assignment reference	None	~	•	None
	÷		Analog Input				

4. Click on the "Assignment reference" of your digital input and choose what you have connected on the digital input.

EcoStruxure Power Commission							- 0 ×
Eco G truxure Power Commis	sion project0	7 TEST REPORT	s batch settings 🗐 🚓	; e ē	OMMUNITIES	Ð 🛷	Schneider
SWITCHBOARD VIEW	COMMUNICATIO	N VIEW					P
Switchboard	~	Q1 via IFI Compact N 5	E Serial : 3N142730307	WRITE TO DEVICE	WRITE TO P	ROJECT	REFRESH ALL
Circuit Breakers		General Protect	tion Alarms IO Config			Device '	Values
MTZviaeIFE							
Compact NSX E		I/O Module 1	Digital Input 4				
		SDX Module	Assignment reference	None	~	User-define	ed Input 4
Q1 via IFE	•		Digital Input 5	Switchboard ventilation contact	· · · · · ·	•	
			- 3	Switchboard door contact			
			Assignment reference	Earth leakage trip signal contact (SDV		Nor	ne
			Digital Input 6	Control voltage presence contact			
			A !	Surge protection status contact			
			Assignment reference	Surge failure contact		Nor	10
				Switch disconnector ON/OFF indication	n contact (OF)		_
			Analog Input	Fuse blown indication contact			_
			User name	Emergency Stop		emerature i	inside LV
			Assignment reference	User-defined pulse counter 4		PT100 cr	ancor 1
	(+)		Condition release	User-defined Input 4		F 100 St	511501 1
			Type	None		Pt1	00

5. After that, do the same with the Analog input.

EcoStruxure Power Commission	project0	7 TEST REPORTS	6 BATCH SETTINGS 🛛 🖫 🚄	; e , fi	COMMUNITIES	- 🗇 X
SWITCHBOARD VIEW C	COMMUNICATION	N VIEW				Ŷ
Switchboard Circuit Breakers	~	Q1 via IFE Compact N S	Berial : 3N142730307	WRITE TO DEVIC		PROJECT REFRESH ALL
MTZviaeIFE		General Protect	Lion Alarms IO Config		-	Device Values
Compact NSX E		I/O Module 1 SDX Module	Assignment reference	None	~	None
Q1 via IFE	•		Digital Input 6			
			Assignment relerence	None	×	None
			Analog Input			_
			Assignment reference	User defined Input		PT100 sensor 1
			Туре	Pt100	* *	Pt100
			Temperature threshold 1	50	=	50
	+		Temperature threshold 1	• 10		10

6. Then, click on "WRITE TO DEVICE."

1

1.5. Acti9 Smartlink system

The Acti9 Smartlink can be configured and tested using EcoStruxure Power Commission. Smartlink devices should be connected with correct addressing to operate effectively.

1.5.1. Wired configuration

The following steps show the configuration with EcoStruxure Power Commission.

How to configure Acti9 Smartlink OF/SD accessories with EcoStruxure Power Commission

EcoStruxure Power Commission						-	- 0 ×
EcoI truxure Power Commission	project07 TEST REPORTS	BATCH SETTINGS	8 % 5 8		COMMUNITIES $\langle \overline{\pm} \rangle$	Ø	Schneider
SWITCHBOARD VIEW COMM	IUNICATION VIEW						e
Switchboard Gateways & Servers	~	SmartLink- Smartlink - SI B	2102 Serial : 3N1713500064				
SmartLink-2102	and the late of the	Product range	: Smartlink	Product mo	odel : SI B		
	(CONNECT TO	DEVICE Connection:	🔗 Remote 🗸 🗸			
	Configure Configure the wired and devices connected to yr	d wireless our Smartlink	Device Check up Check and test the device control functions, view ene- for the wired and wireless connected to your Smartlin	connections, ergy readings devices nk	Firmware View the firmware s required.		d upgrade if
							ect to device
	Ð						

1. Click on "CONNECT TO DEVICE."

EcoStruxure Power Commission				- 0 ×
■ Eco€ truxure Power Commission	project07 TEST	REPORTS BATCH SETTINGS	8 8 % fb fb	COMMUNITIES (+)
SWITCHBOARD VIEW COM	MUNICATION VIEW			P
 Switchboard Gateways & Servers 	~	SmartLinl Smartlink - SI B	<-2102 ● Ø Serial : 3N1713500064	
SmartLink-2102	•	Product range Date/Time	: Smartlink Product 1 : 03/01/2000 19:35:12 🖉	model : SI B
		DISCON	INECT Connection: 🔗 Remote 🗸	·
	Configue Configue	gure the wirel and wireless wear to your Smartlink	Check and test the device connections, control functions, view energy readings for the wired and wrietess devices connected to your Smartlink	Firmware View the firmware status and upgrade if required.
	Ð			

2. Click on "Configure."

EcoStruxure Power Commission		- 0 ×
Eco @truxure Power Commission	project07 TEST REPORTS BATCH SETTINGS 🛛 🖾 🚓 🚍	COMMUNITIES 🕀 🧑 Schreider
SWITCHBOARD VIEW COM		<u></u>
Switchboard	SmartLink-2102 Smartlink Serial : 3N1713500064	WRITE TO DEVICE WRITE TO PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	Wired devices Wireless devices	Device Values
	Channel 1	
	Device category N	None Wired devices
	Channel 2	
	Device category N	None None
	Channel 3	
	Device category N	None V None
	Channel 4	
	Device category	None V None
	Channel 5	

- 3. Click on "WRITE TO PROJECT." Then, click on the device category of your channel.
- 4. Click on the arrow to select the category.

EcoStruxure Power Commission Eco & truxure Power Commission	roject07 TEST	REPORTS	BATCH SETTIN	GS 🛛 🖪 😪	ē. 6	(COMMUNITIES (+)	@	- O ×
SWITCHBOARD VIEW COMMUN	ICATION VIEW								e
Switchbo Gateways	Ŷ		~ * ~ ~					т	REFRESH ALL
SmartLin Device type								evice V	/alues
07-5024	iATL24	iACT24	RCA IC60	Reflex iC60	Breaker I/O	OF24	SD24	ired de OF+SE depar	avices 024 rt1
						CANCEL	ок	roug Lighti	ng
	Char	nnel 2							
	Devic	e category			None		~	None	e
4	Char	nnel 3							
	Devic	e category			None		,	Non	e

- 5. Select "OF+SD24."
- 6. Click on "OK."

EcoStruxure Power Commission		- 0 >
Eco @truxure Power Commissio	n project07 TEST REPORTS BATCH SETTINGS	🚓 🖻 COMMUNITIES 💮 🧒 Schneider
SWITCHBOARD VIEW C	COMMUNICATION VIEW	•
Switchboard	SmartLink-2102 Smartlink Serial : 3N1713500064	WRITE TO DEVICE WRITE TO PROJECT REFRESH ALL
SmartLink-2102	Wired devices Wireless devices	Device Values
	Channel 1	
	Device category	Wired devices
	Device type	0F+8D24 Ø OF+8D24
	Name	depart1
	Label	rouge
	Usages	None V Lighting
	Channel 2	
	Device category	None V None
	Channel 3	
	Device category	None v None

7. Put a name to the device.

1

EcoStruxure Power Commission					- 0 ×
EcoO truxure Power Commission	project07	TEST REPORTS BATCH SETTINGS	8 ~ 5 6	COMMUNITIE	s 🕀 🧒 Schneider
SWITCHBOARD VIEW C	COMMUNICATION V				e
Switchboard	~	SmartLink-2102 Smartlink Serial : 3N1713500064	WRITE		O PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	• *	red devices Wireless devices			Device Values
		Channel 1		[
		Device category	Wired devices	~	Wired devices
		Device type	OF+SD24	Ø	OF+SD24
		Name	Lights F1		depart1
		Label			rouge
		Usages	None	~	Lighting
		Channel 2			
		Device category	None	~	None
	A	Channel 3			
		Device category	None	~	None

8. Put a label on the device.

EcoStruxure Power Commission			- 0 ×
■ Eco∂ truxure Power Commission	project07 TEST REPORTS BATCH SETTINGS		COMMUNITIES 💮 🧒 Scheider
SWITCHBOARD VIEW COMM			P
🕥 Switchboard	 SmartLink-2102 Smartlink Serial : 3N1713500064 	WRITE TO DEV	VICE WRITE TO PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	Wired devices Wireless devices		Device Values
	Channel 1		
	Device category	Wired devices	✓ Wired devices
	Device type	OF+SD24	Ø OF+SD24
	Name	Lights_F1	depart1
	Label	Q11	rouge
	Usages	None	- Lighting
	Channel 2		
	Device category	None	✓ None
	Channel 3		
	Device category	None	▼ None

9. Put a usage for the device.

EcoStruxure Power Commission					- 0 ×
EcoOftruxure Power Commissio	project07	TEST REPORTS BATCH SETTINGS	8 ~ 5 6	COMMUNITI	ES (主) 🧒 Schneider
SWITCHBOARD VIEW C	COMMUNICATION V				P
) Switchboard	~	SmartLink-2102 Smartlink Serial : 3N1713500064	WRI	TE TO DEVICE WRITE 1	O PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	• Wi	red devices Wireless devices			Device Values
		Channel 1			
		Device category	Wired devices	~	Wired devices
		Device type	OF+SD24	Ø	OF+SD24
		Name	Lights_F1		depart1
		Label	Q11		rouge
		Usages	Lighting	×	Lighting
		Channel 2			
		Device category	None	~)	None
					_
	(+)	Channel 3			
		Device category	None	~	None

10. Do the same for Channel 2.

1

1

EcoStruxure Power Commission								- 0 ×
Eco G truxure Power Commission	project07	TEST REPORTS	BATCH SETTINGS	8 % 6	1 6	COMMU	INITIES ()	Schneider Electric
SWITCHBOARD VIEW COM	MUNICATION							Ŷ
Switchboard	~	SmartLink- Smartlink Ser	2102 ial : 3N1713500064		WRIT	E TO DEVICE	ITE TO PROJEC	REFRESH ALL
Gateways & Servers		lized devices Winsloop	laulaaa				Dev	
SmartLink-2102	•	wireless t	IEVICES				Dev	ice values
		Channel 2						
		Device category			Wired devices	~		None
		Device type			OF+SD24	Ø		None
		Name			Lights_F2			
		Label			Q12			
		Usages			Lighting	~		None
		Channel 3						
		Device category			None	~		None
	A	Channel 4						
		Device category			None	~		None

EcoStruxure Power Commission			- 0 ×
Eco Struxure Power Commission proje	ect07 TEST REPORTS BATCH SETTINGS 🛛 🖽 🧠	COMMUN	ITIES (+) 👩 Schneider
SWITCHBOARD VIEW COMMUNICA			<u> </u>
Switchboard	SmartLink-2102 Smartlink Serial : 3N1713500064	WRITE TO DEVICE WRIT	E TO PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	Wired devices Wireless devices		Device Values
	Channel 4		
	Device category	None ~	None
	Channel 5		
	Device category	Pulse counters	None
	Input1		
	Device type	None	None
	Input2		
	Device type	None	None
	Channel 6		
	Device category	None 🗸	None

11. Next, configure the Channel 5 device category to ."Pulse counters."

12. In Input1, select the device type.

EcoStruxure Power Commission									- 0 >
Eco 9 truxure Power Commiss	ion <u>project07</u>	TEST REPORTS	BATCH SETTING	ss 🛛 🚓	Ē. Ē		COMMUNITIES (\pm)	@	Schneider
SWITCHBOARD VIEW									e
Switchbe Gateways	be							CT RE	EFRESH ALL
SmartLin Device t	ype							evice Val	ues
NC	INE							None	
No	iEM200	iEM3110	iEM3155	iEM3210	iEM3255	iEM3355	PM3210	None	
						CANCEL	ОК	None	
		Input2						None	
					None			NOUG	
	A	Channel 6							
		Device category			None		~	None	

13. Choose "iEM2000T" and click on "OK.".

EcoStruxure Power Commission			- 0 ×
EcoOtruxure Power Commission	oroject07 TEST REPORTS BATCH SETTINGS 🗐 🧠 🛱	COMMUNITIES $\langle \widehat{\pm} \rangle$	Schneider Electric
SWITCHBOARD VIEW COMMUN			e
Switchboard	SmartLink-2102 SmartLink Serial : 3N1713500064		ECT REFRESH ALL
Gateways & Servers SmartLink-2102	Wired devices Wireless devices		Device Values
	Channel 4		
	Device category None	~	None
	Channel 5		
	Device category Pulse counters	~	None
	Input1		
	Device type IEM2000T	0	None
	Name		
	Label		
	Usages None	~	None
	Energy meter pulse weight		10

14. When you have finished, click on "WRITE TO DEVICE.".

1

1.5.2. Wireless configuration

I

PowerTag wireless sensors are configured with EcoStruxure Power Commission software.

How to pair PowerTag sensor with Acti9 Smartlink with EcoStruxure Power Commission

Note: EcoStruxure Power Commission software provides a locating function. Click the "Locate" button in front of the PowerTag to start the LED blinking and identify the correct PowerTag.

EcoStruxure Power Commission						-	σ×
Eco @ truxure Power Commission	project07 TEST REPORTS	BATCH SETTINGS	8 ~ 6 6	COM	MUNITIES $(\overline{\pm})$	ø	Schneider
SWITCHBOARD VIEW COMM	JUNICATION VIEW						<mark>.</mark> 9
Switchboard Gateways & Servers	NTIN	SmartLink Smartlink - SI B	:-2102 Serial : 3N1713500064				
SmartLink-2102		Product range	: Smartlink	Product model	: SI B		
	Configure the wired a devices connected to	ind wireless a your Smartlink	O DEVICE Check up Check and test the device co control functions, view energy for the wired and wireless de connected to your Smartlink	Remote V nnections, y readings vices	Firmware ow the firmware st quired.	atus and	upgrade if et to device

1. Click on "CONNECT TO DEVICE."



2. Click on "Configure."

EcoStruxure Power Commission		- 0 ×
Eco @ truxure Power Commission	project07 TEST REPORTS BATCH SETTINGS	ଟ୍ 🖻 🖻 communities 🕀 🧒 Schneideric
SWITCHBOARD VIEW COMM		🤗
🗊 Switchboard	SmartLink-2102	WRITE TO DEVICE WRITE TO PROJECT REFRESH ALL
Gateways & Servers SmartLink-2102	Wired device Wireless devices	Device Values
	Channel 1	
	Device category	None Vired devices
	Channel 2	
	Device category	None v None
	Channel 3	
	Device category	None V None
	Channel 4	
	Device category	None V None
	Channel 5	

3. Click on "WRITE TO PROJECT." Then, click on "Wireless devices."

EcoStruxure Power Commissio	1	- 0 X
Eco @truxure Power Commi	ssion <u>project07</u> test reports batch settings 🗒 🗠 🛱	COMMUNITIES (+) 🤣 Schneider
SWITCHBOARD VIEW	COMMUNICATION VIEW	9
Switchboard	SmartLink-2102 Smartlink Serial : 3N1713500064	WRITE TO DEVICE WRITE TO PROJECT REFRESH ALL
Gateways & Servers	Wired devices Wireless devices	Device Values
SmartLink-2102		
	SCAN	
	(+)	

4. Click on "SCAN."

1

1

EcoStruxure Power Commission	- 0	×
Eco G truxure Power Commi	ion <u>project07</u> test reports batch settings 🖾 🔩 🛱 — Communities 🛞 🧒 Styr	e ider
	COMMUNICATION VIEW	<mark>.</mark> 9
Switchboard	SmartLink-2102 Smartlink Sorial : 3N1713500064 WRITE TO DEVICE WRITE TO PROJECT REFRESS	1 ALL
Gateways & Servers SmartLink-2102	Wired devices Wireless devices Device Values	
	SCAN Scanning wireless devices 1 minute(s) 53 seconds remaining	
	•	
	•	

5. Wait around two minutes for scan to complete.

EcoStruxure Power Commission									- 0 ×
EcoI truxure Power Commission	project07 T	EST REPORTS I	BATCH SETTIN	igs 📮	< ₽) Ē		COMMUNITIES 💮 🦷	Schneider Electric
SWITCHBOARD VIEW COM	MUNICATION VIEW								<mark>-</mark> 9
Switchboard	~ <	SmartLink-2 Smartlink Serial	102 : 3N17135000	64			WRITE TO DEVICE	WRITE TO PROJECT	REFRESH ALL
SmartLink-2102	Wired	devices Wireless dev	vices					Devic	e Values
	Nun	Remove A aber of wireless device Asset name	ll s discovered : Label	14 RF-	D	Usage	Connection		
	1	PowerTag	PT150	00E	2	Lighting	Locate		
	4	PowerTag	PT151	D48	4	Lighting	Locate		
		PowerTag	PT152	D4A		Lighting	Locate	Ĩ	
	- 4	PowerTag	PT153	D48	6	Lighting	Locate	Ĩ	
	- 4 17	PowerTag	PT154	D49	з	Lighting	Locate	ti i i i i i i i i i i i i i i i i i i	
		PowerTag	PT155	003	L I	Lighting	Locate		
		PowerTag	PT156	50E	÷	Lighting	Locate	1	
		PowerTag	PT157	0010		Lighting	Locate	Ĩ	

6. Click on the arrow of your PowerTag to see information about it.

EcoIntruxure Power Commission project	07 TEST REPORTS BATCH SETTINGS 🛛 🖽 😪 🛱	COMMUNITIES 💮 🧒 Schneider
SWITCHBOARD VIEW COMMUNICATIO	N VIEW	
Switchboard v Gateways & Servers SmartLink-2102	SmartLink-2102 Smartlink Serial : 3N1713500064 Wired devices Wireless devices	WRITE TO DEVICE VRITE TO PROJECT REFRESH ALL Device Values
	SCAN Remove All Number of wireless devices discovered : 14 Asset Label RF-ID name	Usage Connection
	Image: PowerTag PT150 00E2 Image: PT151 D0424 Image: PT151 Image: PT151	Lighting Locate
	Label	PT151
	Asset name Usage	PowerTag@151
	Associate breaker rating (A)	Not Set V Not Set
÷	Phase sequence	Not Set

7. You can modify the label, asset name, and usage for those located.

8. After modifying the information, click on "WRITE TO DEVICE."

1

Com'X webpages

1.6. First start

The set up of Com'X is completely carried out using the embedded webpages. For a general configuration overview, please refer to the **Com'X user manual** where you will have further information on:

- Windows device discovery (DPWS),
- Com'X provides a DHCP server by default on port E2; it will automatically attribute an IP address to the computer so that it can connect easily to the Com'X default IP address: 10.25.1.1. The DHCP server delivers addresses from 10.25.1.65 and provides a free addressing zone between 10.25.1.2 and 10.25.1.64 (use if setting a static IP address in your system).
- Wifi USB dongle, Com'X as an access point with nothing to configure:
- □ A convenient way to configure the Com'X when access is difficult or to avoid requesting an IP from the customer network ("Private" Wifi network of Com'X)
- Galvanic isolation with Wifi.



Com'X provides access to its webpages in HTTPS. To enable this you may be asked to provide a certificate which is delivered by your information system provider. (Certificates are linked to your Domain Name Server).

At this stage it is strongly recommended to get the serial number of Com'X to connect further the electrical installation to EcoStruxure[™] Facility Expert. Refer to section 5.2.2.

1.7. Check Firmware version

> see How to access Com'X configuration webpage

The firmware of Com'X, which is compliant with EcoStruxure[™] Power, is available on Schneider Electric's website, on the "Documents and Downloads" section of the product page. See the following video on checking the firmware version.

> see <u>How to check the firmware version of Com'X</u>



1.8. Adding devices in Com'X

1.8.1. MasterPact MTZ configuration

> see How to configure MasterPact MTZ in Com'X

1.8.2. Compact NSX configuration

> see How to configure Compact NSX in Com'X

1.8.3. Acti9 Smartlink configuration

> see How to configure devices connected through Modbus gateway Smartlink in Com'X

> see How to configure Acti9 PowerTag sensor in Com'X





⁻[•] **RECOMMENDED PRACTICE**

Do not connect your electrical installation without Firewall. Devices connected to Internet and Internet Firewall must be updated.

1.9.1. Basic setting

> see How to configure Com'X to connect to Ethernet Networks









Com'X webpages

1.9.2. Advanced setting: use of Proxy

The IT department of the building very often requires the outgoing traffic to go through a proxy.

In that case it is mandatory to configure the Com'X to use this Proxy (because the direct access from the Com'X to the internet will be blocked by the Firewall of the site).

If the network administrator has set up a proxy or a firewall, verify that he has authorized the following HTTPS endpoints to allow the Com'X to communicate with the Facility Expert server:

- https://*.azure-devices.net:443
- https://bootstrap.gl.struxurewarecloud.com:443
- https://remoteshell.rsp.schneider-electric.com:443

1.10. Cloud connection

This section shows the connection of the Com'X with DSP (Digital Service Platform of Schneider Electric) that will manage a reliable connection with EcoStruxure™ Facility Expert.

> see <u>How to configure Com'X to send data to EcoStruxure™ Facility Expert</u>



1.11. Events activation

EcoStruxure[™] Facility Expert mobile app provides automatic notification to mobile device in case of main electrical fault. They are considered as predefined events built for each model type of LV circuit breaker (MasterPact MTZ - NT -NW, PowerPact).

The user needs to activate the feature in Com'X and select the relevant ones to be monitored in EcoStruxure™ Facility Expert mobile app later on.

> see How to activate alert in Com'X



1.12. Publication

The final step activates the data publication from Com'X to EcoStruxure™ Facility Expert.

> see How to start data publication in Com'X



3.1. Introduction

-Ý- RECOMMENDED PRACTICE

Use Com'X 210 if only the cloud based application is required without local energy management. Settings are identical to Com'X 510 for EcoStruxure™ Facility Expert.

EcoStruxure[™] Facility Expert is a cloud based software available on PCs and mobile devices that provides valuable information on energy costs and on asset conditions along with tools to manage the maintenance activities.





The setup of EcoStruxure[™] Facility Expert is carried out completely using the web portal.

EcoStruxure[™] Facility Expert

3.2. Prerequisites

This chapter contains information about the elements and data that have to be collected before starting to commission EcoStruxure™ Facility Expert.

3.2.1. User account and EcoStruxure[™] Facility Expert subscription

You need to have:

- A valid EcoStruxure[™] Facility Expert account with login and password. To obtain an account, contact your local Schneider Electric representative.
- At least one available EcoStruxure[™] Facility Expert Smart Power subscription.

3.2.2. Data required to set up EcoStruxure[™] Facility Expert

Data required to create a customer

- Name ^[1]:
- Email:
- Country ^[1]:
- Activity ^[1]:

[1] Mandatory

Data required to create a site

- Name ^[1]:
- Address^[1]:
- Zip code ^[1]:
- City ^[1]:
- State ^[1]:
- Time zone ^[1]:
- Surface area:
- [1] Mandatory

Data required for the company data agreement signature

At the end of the setup, an email is sent to the building owner or the responsible party to sign the company data agreement.

Until the terms and conditions are signed, data will not be exported from the site to EcoStruxure™ Facility Expert.

Com'X serial number

You will have to pair the Com'X with the site using the serial number of the Com'X. It can be found in the Com'X embedded webpage, in the About area or on top of the product, as displayed in the figure below.

It starts with RN-DN:



EcoStruxure[™] Facility Expert

3.3. Initial setup

- In this step, you will:
- create a customer and a site,
- assign an EcoStruxure[™] Facility Expert subscription to the site and pair the Com'X to the site,
- retrieve all devices configured in the Com'X.



Ensure that the person responsible for the site data (Building owner or facility manager) has signed the terms and conditions received in his/her email box.

On the EcoStruxure[™] Facility Expert web portal, select the **Settings Menu > Setup wizard tab** and follow each step of the wizard.

> see How to set up EcoStruxure™ Facility Expert



Check that all devices have been properly retrieved with the correct measurements. Energy meters will be automatically declared in EcoStruxure[™] Facility Expert. In case the number of meters exceeds the number of meters subscribed with Smart Power license, you should declare in EcoStruxure[™] Facility Expert the meters used for energy monitoring:

> see How to declare energy meter in EcoStruxure™ Facility Expert



3.4. Declaring circuit breaker asset

In this step, you will:

check the devices you want to manage as an asset.

> see How to declare circuit breaker asset in EcoStruxure™ Facility Expert



Schneider Electric circuit breakers that you have declared as an asset.

3.5. Creating a panelboard asset and pairing an alarm to the panelboard

Check that custom events which have been configured in Com'X have been created in EcoStruxure™ Facility Expert Energy.

In this step, you create an asset of type electrical panelboard and pair the custom events that you have configured in the Com'X to the panelboard. For example, this will enable you to receive a notification on your smartphone when an Acti9 circuit breaker trips.

On the EcoStruxure[™] Facility Expert web portal, select the Settings Menu > My Customer and Sites.

Select your site in the treeview and click on the button Create new asset.

> see How to create a panelboard asset and pair OF/SD alarms in EcoStruxure ™ Facility Expert



Additional alarms can be attached to the same asset.



EcoStruxure[™] Facility Expert

3.6. Checking the assets import in the mobile application

In this step, you check on EcoStruxure[™] Facility Expert mobile app that:

- all assets have been correctly imported,
- the maintenance plan is generated for MasterPact circuit breakers,
- you receive a notification on your smartphone when an alarm is triggered.

> see How to manage my asset with alert notification in EcoStruxure™ Facility Expert



Download EcoStruxure[™] Facility Expert mobile application:



3.7. Optional settings

3.7.1. Invite a user

On the EcoStruxure[™] Facility Expert web portal, select the Settings Menu > My Customer and Sites.

In the section **User management** of a site, you are able to invite a new user as a Site Administrator or a Site Viewer. He will receive an email to create his account for EcoStruxure[™] Facility Expert.

	Site Administrator	Site Viewer
Web portal		
Access to the site energy dashboards		
Access to site settings		
Mobile app		
View assets information and tasks		
Modify assets /create log intervention		
Receive events notification		possible
Create and assign tasks		

3.7.2. Energy dashboard settings

On the EcoStruxure[™] Facility Expert web portal, select the Settings Menu > My Customer and Sites.

In the section **Energy** of a site, you are able to set:

- power demand limit,
- monthly targets for main consumptions,
- monthly consumptions of previous years.

3.7.3. Energy events settings

On the EcoStruxure[™] Facility Expert web portal, select the Settings Menu > Events.

Clicking on each Energy events, you are able to:

- set threshold for Power demand and Power Factor alarms,
- enable/disable alarms,
- select the recipients of the alarms to be notified through email.

3.7.4. Asset events settings

In the EcoStruxure[™] Facility Expert mobile app, in **More > User Name / Settings > Notification**, you are able to activate or deactivate the notifications of new log, new alarm or new tasks.

Troubleshooting

Troubleshooting on Com'X

For any questions concerning the Com'X, refer to the troubleshooting section of the Com'X 210/510 User Guide.

Create/Set Up a Site in EcoStruxure[™] Facility Expert

lf	Then
The desired service reference is not available to create a site.	Contact your local Schneider Electric representative to confirm that you have subscribed to the correct service offer.
The Com'X cannot be paired to the site.	 Check Com'X serial number. Check that the Com'X is not already paired to another site.
	Contact Schneider Electric technical support at 888-778-2733.

Setting Up and Configuring the Com'X for EcoStruxure™ Facility Expert

lf	Then
The Com'X cannot connect to the	If connected on the Ethernet port, check that there is no proxy present to set. If it is the case, contact your network administrator.
EcoStruxure™ Facility Expert server.	If connected on the Ethernet port, it is possible that your DNS server is not compatible with Schneider Electric server. Temporarily try the Google DNS address 8.8.8 and then contact Schneider Electric technical support.
	Execute a Com'X restart.
	Save your configuration if needed and execute a factory reset. Load the configuration file again and try reconnecting to the remote platform.
The Com'X is not connected to the Facility Insights server.	Check that the Com'X has been properly registered in EcoStruxure™ Facility Expert.
Configuration of Com'x has to be duplicated	User should configure manually both Com'X. The duplication of configuration is not recommended.

Modifying a custom event on OF/SD

lf	Then
You update a custom	Pair again the asset in EcoStruxure™Facility Expert in the event tab.
event in Com'X	If necessary fill in the causes, potential result and recommendation fields.

Testing Publication / Data Import in EcoStruxure™ Facility Expert

lf	Then
Following a successful	Refresh the page (Ctrl+F5).
publication, the Com'X name	Sign out and sign back in your EcoStruxure™ Facility Expert account.
has not been upgraded and	Launch again a publication test.
the devices do not appear in	Valt 15 minutes and refresh the page.
EcoStruxure [™] Facility Expert	Contact Schneider Electric technical support.
tree view.	
No usage is displayed in the	Check that the fields Usage , Building , Floor , and Zone have been properly filled in the
widget Consumption per usage or no zone is	EcoStruxure [™] Facility Expert settings tab. The meter Main Meter is not displayed in those widgets.
displayed in the widget	Eight usages and eight zones can be displayed in default widget size and up to 20
Consumption per zone.	usages and 20 zones in larger widget size.
There is no value in the	Check that the Switchboard Incomer check box has been selected for one of the
electrical distribution	devices in the EcoStruxure™ Facility Expert settings tab.
widget.	
Some widgets are missing	Check the time range displayed.
Values.	This wide at displays you as from the day before
People d widnet	This widget displays values from the day before.
The sireuit breaker	Check that the circuit breaker has been preparly instrumented with the complementary
dashboard is incomplete	modulo (PSCM for DoworPoot circuit brookers)
There is no circuit breaker in	Check that the is active check hox has been selected for the relevant circuit breakers in
the list of Assets	the EcoStruxure TM Eacility Expert Settings tab
A wrong device has been	Use the function Replace the device in the Com'X publish data. Data history is kept
configured in the Com'X.	
Notification is not receive on	Wait 2 min and refresh the EcoStruxure [™] Facility Expert mobile App.
EcoStruxure [™] Facility Expert	
Mobile App	

Default settings and password

The default configurations are shown below:

To activate default configurations, > refer to the device user guides listed in the reference documents.

DHCP client (Default ADDR* =169.254.YY.ZZ**)

Login: admin

Password: admin



SmartLink SI B



SmartLink SI D

E1 = E2 Client DHCP (Default ADDR* =169.254.YY.ZZ**)

Login: Administrator

Password: Gateway

E1<>E2 E1: DHCP client (Default ADDR* =169.254.YY.ZZ**)

E2: DHCP server (ADDR 10.25.1.1)

Login: admin Password: admin (after first access, user is requested to change it)





Troubleshooting

Firmware installation and upgrade recommendations

It is important to consider your firmware in the context of the system.

In some situations, adding and updating devices potentially creates inconsistencies for communication and firmware upgrades. It is therefore important to review your firmware upgrade plan with respect to other devices in your system. If the firmware creates inconsistencies, the system may be subject to limitations or unexpected behavior.

Firmware precautions

Please follow the precautions below during a firmware installation or update:

- Please check the Minimum Supported Baseline to ensure the firmware version is compatible with other devices.
- Ensure that a verification plan is prepared and executed to verify that the product behavior and communication is as planned.

It is recommended to perform a firmware upgrade during non-peak hours as the product cannot operate normally until the upgrade is complete. This may result in some abnormal communication and perceived unresponsiveness.

In some situations, the firmware upgrade may require the upgraded device to power cycle.

How to check the firmware version

It is important to manage the Smart Panels firmware to allow the full set of features. Each device should be updated to ensure optimal communication and compliance of the modules. Most Enerlin'X products can be connected to EcoStruxure Power Commission, a Windows-based application, to check the firmware compatibility. Customers are encouraged to connect to EcoStruxure Power Commission and run the compatibility check to ensure the system is coherent.

EcoStruxure Power Commission software provides the current baseline for Smart Panels components,





2n Schneider Our Site www.schneider-electric.com/support http://partners.schneider-electric.us/en

Then click on Device firmware baseline to get the current baseline compatibility or view the old one. EcoStruxure Power Commission only allows to upgrade the firmware.

In addition, product versions can be found via the device webpages or on the splash screen during product startup. For more information, please refer to the user guide for the product at <u>se.com/us</u>.

The EcoStruxure Power Commission compatibility check is used for PowerPact (MCCB), MasterPact (ACB), and Acti9 SmartLink devices. As a result, Enerlin'X devices that are not part of these product lines (e.g. Com'X, iEM, PM) should be manually verified with the Enerlin'X Communication Components Minimum Supported Baseline.

In some cases, the firmware in the Enerlin'X system needs a physical component change to ensure correct behavior. Please ensure that the product date code printed on the product sticker is higher than the number mentioned in the Enerlin'X Communication Components Minimum Supported Baseline table accessible from the EcoStruxure Power Commission software.

Firmware update tools

Most Enerlin'X products can be updated via EcoStruxure Power Commission. Supplementary firmware downloads (e.g. Com'X can be loaded onto products via a USB key. EcoStruxure Power Commission software provides a one-click upgrade for:

- The ULP system
- The Acti9 Smartlink system.

From EcoStruxure Power Commission project, launch Firmware Upgrade:

> see How to check devices firmware baseline with EcoStruxure Power Commission



When connecting to a device, EcoStruxure Power Commission will inform you in case of firmware baseline discrepancy. It is recommended to upgrade the device with the latest firmware available.

EcoStruxure Power Commission			– U X
Eco@truxure Project01 TEST	REPORTS BATCH SETTINGS 🛛 🖓 🚭	臣	COMMUNITIES 💮 🧒 Schreider
			9
🕅 Switchboard 🗱 🗸	PZ4-RA- Masterpact MT	FDR3 IZ - Micrologic 8.0 X Serial :	
PM5563 Circuit Breakers	Application Typ Product model Rated current	pe : Distribution Prod I : Micrologic 6.0 X Prote : 800A Numt	uct range : Mesterpact MTZ Inction type : LSIG ber of poles 3
Compact NS - Powerpact P/R - P PowerPact HJL E	Standard IO 1 Environmental	: UL IFE : Yes Breal Status Date	:Yes ker Accesser/us Time for Masterpact MT2! Connect to
PZ4-RA-FDR1	CONNECT	Connection: O Direct 🤣 Remote 🗸	the device and upgrade.
PZ4RAFEEDER2			
PZ4-RA-FDR3	Configure Setup protection, alarms, IO's and Communication parameters of the device	 Device Check up View device status, measurements, device histories and logs 	Firmware View the System firmware compatibility status and upgrade if needed.
			ß
			Connect to device
	D [*] Digital Modules Add value-added functionalities to the trip unit and activate it. Buy the Digital Modules from Schneider Electric website	Automatic trip tests Perform test to ensure that the basic protection functions are working correctly and are ready for operation.	Sone-Selective Interlocking Test Verify the field wiring between multiple circuit breakers connected in a Zone-Selective Interlocking (25) pystem.

Device firmware discrepancy

In some cases, EcoStruxure Power Commission may highlight hardware discrepancy. It implies to change the device.

0 2	1 8 8	Create Report 👻 0				Olivier POUWELS
Switchboard View	v	(()) Communication View				• °
Hypermarket V1_3	•	Incomer Masterpact MTZ - Micrologic 5.0 X Se	rial : 1989421626110090			
Ø Switchboard		Firmware Upgrade Firmware Version Details				
辈 Custom	⊕	Overall System firmware status	1 recommended actio	n(s)		a
 Main Switchboard 					~	
✓ Spare		Module	Status	Current Version	Latest Version	Recommended Action
✓ HVAC	-	Masterpact MTZ	ø	001.000.200	001.000.200	None
Feeder Market Main Incomer		ife IFE	0	001.009.008 V1.9.9	003.005.003 V003.005.003	Replace module
✓ Lighting						
🖋 🗸 Incomer						
C Discov	er Device					
✓ Market Switchboard	-					

Hardware module discrepancy

In this case, contact your Schneider Electric representative to replace the obsolete module.

<u>89</u>								- 0 ×
State Prove Contractor	8, 8 8	🗠 🗋 Reports 1	😁 Settings Batch Transfer 🖄	Test				🗢 🥹
💉 SWITCH	HBOARD VIEW	() COMMUN	ICATION VIEW					e
My Project								
All Building	Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action	
Switchboar	10.25.1.155	255	Micrologic	ø	V1.1.0	V1.1.0	None	
Building N Main Swit			io 1	0	003.003.011	003.003.011	None	
~ Main-N			ife ife	ø	003.007.024 V003.007.024	003.007.024 V003.007.024	None	
V NS1-H			.M BSCM	e	V2.2.7	V2.2.7	None	atus and
V NS3-S								
V NT-Fee								Lto device
DISCOVER D								
~ HMKT								

Firmware upgrade of IFE / IO / PowerPact circuit breakers

	3							-	- 0 ×
594.eps		f f g	🗠 🖻 Reports	😫 Settings Batch Transfer 🖄	Test				• 0
DB432	🐉 SWITCH	HBOARD VIEW	() COMMUN	ICATION VIEW					e
	My Project								
	八 Building	Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action	
	C Switchboar	10.25.1.205	255	BCM_ULP	C	V4.1.9	V4.1.9	None	
	Building N Main Swi			D 1	C	003.003.011	003.003.011	None	
	 ✓ Main-M ✓ NS1-H 			ife IFE	۲	003.007.024 V003.007.024	003.007.024 V003.007.024	None	
	✓ NS2-L								atus and
	V NS3-S V NT-Fee DISCOVER D								t to device

Firmware upgrade of IFE / IO / MasterPact NT

9	f . fi g	≪ 🖹 Reports 3	😤 Settings Batch Transfer 🖄 Te	əst				- a ×
👂 SWITCH	IBOARD VIEW	() COMMUN	ICATION VIEW					e e
My Project								
引 Building	Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action	
Switchboar	10.25.1.95	255	Smartlink SI B	ø	V2.2.6	V2.2.6	None	
V NS1-H								
✓ NS3-5								
DISCOVER D								equired.
✓ Seconda								t to device
V HMKT-								
✓ SLMB-								
 ✓ iEM31! DISCOVER D 								

Firmware upgrade of Acti9 SmartLink SI B

a l	හਊ frozove ower Commission D 12 සි ව Create Report ▼ 0								
S Switchboard View (()) Communication View									
8	PM-BMS	SLIP							
	U Building	SmartLink - Ethernet Serial : 3N1521500074							
		Firmware Upgrade							
	Custom		Module	Current Version	Latest Version	Recommended Action			
	 Ney asset 			V2.5.5	V2.5.5	None			
	✓ Lighting …	Sures	SmartLink - Ethernet	V2.5.5	V2.5.5				
	🗸 data Management 🚥								
	✓ Main Incomer ····								
	🖉 🖌 SLIP 🚥	1							
	C Discover Device								

Firmware upgrade of Acti9 SmartLink Ethernet

Note that in this last screenshot, the upgrade is not offered to the user as the "Current Version" is equal to the "Latest Version."

	e e	≪ ⁰	Settings Batch Transfer	at				- 0	×
Switci	HBOARD VIEW	(()) COMMUN	ICATION VIEW						a°
My Project									
心 Building	Connection	Modbus address	Module	Status	Device Version	Available Version	Recommended Action		
C Switchboar	10.25.1.181	255	Masterpact MTZ	C	002.000.002	002.000.003	VPGRADE None		
Building N Main Swi Main N			elFE	C	003.007.024 V003.007.024	003.007.024 V003.007.024	None		
 ✓ NS1-H ✓ NS2-L(✓ NS3-S) 								itus and	
 NT-Fee DISCOVER D Seconda 								to devic	28

Firmware upgrade of MasterPact MTZ

Firmware upgrade Acti9 Smartlink

> see How to upgrade the firmware of my Acti9 Smartlink



ULP system

DB 418205.eps

Each Enerlin'X product using the ULP system provides a ULP LED diagnostic status. The tables below provide the ULP LED blink code pattern and associated Mode/Action:

ULP LED	Mode	Action
	Nominal	None
	Conflict	Remove extra ULP module
	Degraded	Replace ULP module at the next maintenance operation
	Test	None
	Non-critical firmware discrepancy	Upgrade firmware at the next maintenance operation
im i mi i i	Non-critical hardware discrepancy	Replace ULP module at the next maintenance operation
in i nim i	Configuration discrepancy	Install missing features
jamma i jamma i	Critical firmware discrepancy	Upgrade firmware
in i mini	Critical hardware discrepancy	Replace ULP module
	Stop	Replace ULP module
	Power OFF	Check power supply

ULP system LED diagnostic status

Troubleshooting

Ethernet network

On some computers, DPWS is blocked by the firewall. If your firewall blocks the ping, it should be temporarily disabled. Alternatively, request support from your local IT service to enable the DPWS service:

In the Windows notification area, right-click on the firewall icon (example with McAfee):



Windows task bar

Open the 'Quick Settings' menu and uncheck the 'Firewall' item:

		Update Security	
	On-Access Scan Statistics	Quick Settings	+
\checkmark	On-Access Virus Scanning - on	Manage Features	•
	On-Access Scan Properties	Scan Computer for	•
	On-Access Scan Messages	View Security Status	
1	Host IPS - on	McAfee Agent Status Monitor	
1	Network IPS - on	About	
	Firewall - off		

Open the 'Quick settings' menu again and check that the 'Firewall' item is disabled:

ndo-one	~	Host IPS - on
	~	Network IPS - on
		Firewall - off

Deactivation of the firewall

Procedure to connect to Enerlin'X devices with a computer running Windows XP:

DPWS is not supported by Windows XP or previous versions of Windows OS.

If Windows XP is being used, a connection can be made to the Enerlin'X devices with Ethernet. The steps to manually change the IP address of the computer in order to reach the device webpages are outlined below:

Step	Action
1	Disconnect your local computer from the local area network (LAN) and switch off Wi-Fi.
2	Connect an Ethernet cable from the computer to the Enerlin'X IFE or Acti9 Smartlink Ethernet.
3	Start Internet Explorer 8+, Mozilla Firefox 15+, Chrome 24+ or later versions.
	Note: the computer should automatically use the default IP address 169.254.#.# (# = 0 through 255 and the default subnet mask 255.255.0.0.
4	In the address text box, type 169.254.YY.ZZ where YY and ZZ are the last 2 bytes of the IFE MAC address (found on the IFE side label) or Smartlink Ethernet IP address (found on the Smartlink Ethernet top label), then press Enter. The home page opens in your browser.
	For example: for an IFE with MAC address 00-B0-D0-86-BB-F7, or 0-176-208-134- 187-247 in decimal, type 169.254.187.247 in the address text box.
5	Press Enter. The login page automatically opens in your browser.
6	Type user name and password. The home page automatically opens in your browser.

Com'X acts as a DHCP server on the Ethernet 2 port by default. Connect the computer via LAN to the E2 in the Com'X and type 10.25.1.1 in the address text box to access the Com'X.

In both cases, the computer should use DHCP and not a static IP address.

To verify the setting, open a DOS command shell (Start\All Programs\Accessories\Command Prompt) and type the "Ipconfig" command line.

Click "Enter" keyboard. The following information should be displayed (language will vary based on your OS settings):

99.eps	Wireless LAN adapter Wireless Network Connection:
DB43255	Connection-specific DNS Suffix .: Link-local IPu6 Address : fe80::4c62:277a:273d:7ea6/12
	IPv4 Address
	Default Gateway : 10.196.157.1

IPconfig DOS command

Verify that the IP address is the default one (e.g. static addressing is not enabled). If the parameters are not correct, force an IP address directly in your network configuration using the steps below:

Shanng Shanng	General
Connect using:	Configure the You can get IP settings assigned automatically if your network suppor
Para Intel(R) Dual Band Wireless-N 7260	for the appropriate IP settings.
Configure	Obtain an IP address automatically
This connection uses the following items:	Use the following IP address:
Client for Microsoft Networks	Configure the IP address: 162 . 198 . 0 . 60
☑ ■ Good Facker Scheduler ☑ ■ File and Printer Sharing for Microsoft Networks	P parameters Subnet mask: 255, 255, 255, 0
Internet Protocol Version 6 (TCP/IPv6)	Defait estructu
Internet Protocol Version 4 (TCP/IPv4)	Delaut galevidy.
Link-Layer Topology Discovery Mapper I/O Driver	Obtain DNS server address automatically
	Use the following DNS server addresses:
Install Uninstal Properties	Preferred DNS server:
Description	Alternate DNS server:
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced.
	OK Car

Appendix

Glossary

This section explains certain words or acronyms which might be unclear to a reader who does not know the system or the environment.

Term	Description
ACB	Air Circuit Breaker - MasterPact
Acti9 Smartlink	Modular communication system for final distribution
BMS	Building Management System
DHCP	Dynamic Host Configuration Protocol
DPWS	Devices Profile for Web Services
DSP	Digital Service Platform
EcoStruxure Power Commission	Configuration software for LV circuit breaker (MasterPact - PowerPact) and for Acti9 system
EMC	Electromagnetic Compatibility
EMS	Energy Management System
Enerlin'X	Name of the range of digital product in Schneider Electric
IT service	Information Technology service, manage the computers and network
LV	Low Voltage
MCB	Miniature Circuit Breaker - Acti9
MCCB	Molded Case Circuit Breaker - PowerPact
Modbus	Serial line protocol, also known as Modbus RTU
SMTP	Simple Mail Transfer Protocol
TCP/IP	Ethernet protocol
Ti24 connector	Prefabricated connector in the Acti9 system
WAGES	Water Air Gas Electricity Steam
EcoStruxure [™] Facility Expert	Cloud based software for energy and asset management

Custom model creation for OF/SD in Com'X

The notification feature in Acti9 Communication System is not supported natively. The user needs to create a custom model as a contactor and then apply it to the selected unit. One custom model can be instantiated several times. Custom models are multiple and can be applied to other electrical device model of Com'X, refer to the Com'X manual.

> see How to create custom model of OF/SD in Com'X



> see How to connect an OF/SD to Acti9 Smartlink in Com'X



Custom event on OF/SD in Com'X

The next step consists of creating a notification from Acti9 Communication System circuit breaker is to create a custom event on the contactor custom model created in the previous section.

> see <u>How to create custom events on OF/ SD in Com'X</u>




Schneider Electric USA, Inc.

800 Federal Street Andover, MA 01810 USA 888-778-2733 se.com/us

© 2019 - Schneider Electric. All Rights Reserved. Schneider Electric, EcoStruxure, MasterPact, Modbus, PowerLogic, PowerPact, Sepam, and Square D are trademarks and the property of Schneider Electric SE, its subsidiaries, and affiliated companies.

Document reference: 0100DB1902