Conext[™] Gateway

Conext Gateway Owner's Guide

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Contact Information

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Information About Your System

As soon as you open your product, record the following information and be sure to keep your proof of purchase.

Serial Number	
Product Number	
Purchased From	
Purchase Date	

Safety Information

Important Information

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



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



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

DANGER

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

WARNING

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

ACAUTION

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

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

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

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

Product Safety Information

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, ARC FLASH, AND FIRE

- Read all instructions, cautionary markings, and all other appropriate sections of this guide before installing, operating, troubleshooting or performing maintenance on the Conext Gateway.
- Exercise extreme caution at all times to prevent accidents.
- These instructions are for use by qualified installers only.

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

HAZARD OF ELECTRIC SHOCK AND FIRE

- Connect only to Safety Extra Low Voltage (SELV) circuits and power sources.
- All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations.
- For Indoor Use Only.
- Do not disassemble. No user serviceable parts inside.

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

NOTICE

EQUIPMENT DAMAGE

- All cables connected to the Conext Gateway must run indoors and not be susceptible to lightning strikes.
- Turn OFF all devices before connecting cables. The Conext Gateway does not have an ON/OFF switch.
- Do not connect an Ethernet cable from the Conext Gateway to the WAN/MODEM port on the network router.
- Do not connect an Ethernet cable plug into a Xanbus port on the Conext Gateway.
- Do not connect a Xanbus RJ-45 cable plug into the 10/100 Ethernet port of theConext Gateway.
- Do not connect any port on the Conext Gateway to an outside line or to a public telecommunication network.
- Ensure that the device connected on the Xanbus network is in standby mode before changing settings. Do not change any settings unless you are familiar with the device.
- Changes to any TCP/IP-related settings should only be performed by a qualified IT professional.

Failure to follow these instructions can result in equipment damage or affect network performance.

NOTICE

EQUIPMENT DAMAGE

- Do not disassemble the Conext Gateway.
- See Warranty for instructions on obtaining service.
- The Conext Gateway contains no user serviceable parts. Attempting to service the Conext Gateway yourself will void your warranty.

Failure to follow these instructions can result in equipment damage.

NOTE: This device can be configured to connect to the Internet using port-forwarding in your network router's settings. There is a security risk in port-forwarding unencrypted network traffic over a public network (Internet). Use of a VPN or a secure tunnel to route Conext Gateway communication via the Internet is recommended.

Audience

This guide is intended for use by anyone who plans to install and operate the Conext Gateway communications device as part of their power plant system.

Installation instructions are meant for installers only. The installers have training, knowledge, and experience in:

- Installing electrical equipment.
- Applying all applicable installation codes.
- Analyzing and reducing the hazards involved in performing electrical work.
- Selecting and using Personal Protective Equipment (PPE).
- Changing any TCP/IP-related settings.

Configuration, servicing, and maintenance must be performed by authorized service personnel only. Authorized service personnel meet the requirements for an installer, plus they have received specific training from the manufacturer on servicing the Conext Gateway.

About

Purpose The purpose of this Owner's Guide is to provide explanations and procedures for installing, operating, configuring, maintaining, and troubleshooting the Conext Gateway. Scope The Owner's Guide provides safety guidelines, planning, and setup information, procedures for installing the product, as well as information about troubleshooting the product. It does not include information on how to install, configure and use other Schneider Electric

Firmware Revision

Some Conext Gateway features and functions described in this Owner's Guide may be incorporated with later firmware versions. This Owner's Guide is valid for Conext Gateway Version 1.01 and above. To view the firmware version on your product, see the Conext Gateway Status Information in the web user interface.

Abbreviations and Acronyms

products.

DHCP	Dynamic host configuration protocol	
LED	Light emitting diode (used for indicator lights)	
SELV	Safety extra low voltage	
TCP/IP	Transmission control protocol/Internet protocol	

Related Products

For more information about related products, refer to:

- Conext XW Pro Inverter/Charger Owner's Guide (part number: depends on configuration - see http://solar.schneider-electric.com/)
- Conext XW+ Inverter/Charger Owner's Manual (part number: depends on configuration see http://solar.schneider-electric.com/)
- Conext Automatic Generator Start (AGS) Owner's Guide (part number: 975-0307-01-01)
- Conext System Control Panel (SCP) Owner's Guide (part number: 975-0298-01-01)
- Conext SW Inverter/Charger Owner's Guide (part number: depends on configuration see http://solar.schneider-electric.com/)
- Conext MPPT 80 600 Solar Charge Controller Operation Guide (part number: 975-0540-01-01)
- Conext MPPT 60 150 Solar Charge Controller Operation Guide (part number: 975-0400-

01-01)

Conext Battery Monitor Owner's Manual (part number: 975-0691-01-01)

Related Information

You can find more information about Schneider Electric's Solar products, as well as its services at http://solar.schneider-electric.com/.

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1 Overview

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Introduction

The Conext Gateway is a multi-function communication device that provides an overall view of system performance for residential power monitoring systems. It also provides a communications gateway between a network of Xanbus[™]-enabled devices and Modbus devices. Operators can configure the Conext Gateway system and monitor performance with third party software packages and building management systems.

A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, ARC FLASH, AND FIRE

- Connect only to Safety Extra Low Voltage (SELV) circuits and power sources.
- All wiring must be done by qualified personnel to ensure compliance with all applicable installation codes and regulations.
- For Indoor Use Only.
- Do not disassemble. No user serviceable parts inside.

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

Other features of the Conext Gateway include:

- Compatibility—connects directly to Xanbus-enabled devices
- Real-time clock—keeps time for the entire system
- Non-volatile memory—preserves the latest Conext Gateway settings if power is interrupted or network communication is disrupted.
- Firmware storage and upgrade capability—uses the Conext Gateway to upgrade or downgrade firmware for Xanbus-enabled devices on the network.
- Cloud storage capability—Save and synchronize settings with the Conext Gateway cloud service.

Compatible Xanbus™ Components

The Conext Gateway works with several Schneider Electric products including:

- Conext XW Pro Inverter/Charger
- Conext XW+ Inverter/Charger
- Conext Automatic Generator Start (AGS)
- Conext System Control Panel (SCP)
- Conext SW Inverter/Charger
- Conext MPPT 80 600 Solar Charge Controller
- Conext MPPT 60 150 Solar Charge Controller
- Conext Battery Monitor

For details on specific models supported, see *Specifications on page 1*. The Conext Gateway supports up to a maximum of 20 devices on a Xanbus network depending on the device types.

Material List

Figure 1 Material list



NOTE:

- Do not discard the packaging box.
- The Wi-Fi password is printed on the unit.
- Install the antennas before turning on the unit.

1	Conext Gateway unit	
2	Ethernet cable (CAT5e)	
3	Network terminator	
4	AC/DC power adapter with interchangeable plugs	
5	75 mm DIN rail	
not shown	 8GB Micro SD card CAN terminator 26-pin connector (see <i>Physical Features on page 13</i>) 	

Physical Features

The following illustration shows the Conext Gateway. The tables in the following sections contain descriptions of the connectors, indicators, and data ports on the Conext Gateway.



Figure 2 Ports, buttons, and indicators

1	Xanbus ports 1	1st pair of Xanbus ports used for Xanbus communications
2	Xanbus ports 2	2nd pair of Xanbus ports used for Xanbus communications
3	Ethernet port	Use to connect to the internet via an Ethernet cable.
4	Antenna	Adjustable antenna for Wi-Fi transmission and reception
5	26-pin port	Use for connecting the 26-pin connector.
6	LED indicators	LED indicators are used for signifying device, communication, and
		monitoring statuses.
7	Wi-Fi button	Press and hold to turn on or turn off Wi-Fi setup network.
8	Settings button	Press to enter device configuration mode.
9	Power button	Press to enable/disable the Conext Gateway.
10	Power port	Use for connecting the AC/DC power plug.
11	DIN rail clip	Use for attaching the device to a 35mm EN50022 DIN rail. The clip
	(detachable)	can be detached and re-attached to one of the narrow sides of the
		device.
12	Reset pinhole	Press to reset the Conext Gateway.
	button	
13	USB port	Use for firmware updates only. Do not use to charge USB devices.

Power Button Operation

Table 1 Power button operation

Press and hold	Number of	Consult Cataway anaratian
duration	beeps	Conext Galeway operation

3 seconds	1	Conext Gateway will restart
6 seconds	nds 2 Conext Gateway will shutdown	
9 seconds	3	User settings will be reset and Conext Gateway will restart
12 seconds	4	Factory default settings will be reset and Conext Gateway will restart

LED Indicator Operation

Figure 3 LED indicators



\bigcirc	Green	Power	The Conext Gateway is powered on.
	Green	Memory	Device is logging data to internal memory when flashing.
€ ↔	Green	Cloud	Device is actively transferring data with the cloud.
Č>	Green	Xanbus	Device is actively transferring data with a Xanbus device/s.
$\overset{\mathbb{M}}{\longleftrightarrow}$	Green	Modbus	Device is actively transferring data with a Modbus device/s.
	Red	Event	Devices on the Power system have events to report.
((م))	Blue	Wi-Fi	Wi-Fi connectivity is established.

26-pin Connector Pinouts

Figure 4 26-pin connector

	Bottom Row	
2	9–24VDC power input	
4	GND	
6	12VDC digital input 1	
8	12VDC digital input 2	1
10	ISO1 CAN GND	
12	ISO1 CAN L	
14	ISO1 CAN H	2
16	ISO2 RS485 GND	4
18	ISO2 RS485 1A	
20	ISO2 RS485 1B	
22	ISO2 RS485 GND	
24	ISO2 RS485 2A	
26	ISO2 RS485 2B	



	Top Row
1	GND
3	0–10VDC analog input 1
5	0–10VDC analog input 2
7	GND
9	4–20mA input 1
11	4–20mA input 2
13	GND
15	Relay 1 NO
17	Relay 1 COM
19	Relay 1 NC
21	Relay 2 NO
23	Relay 2 COM
25	Relay 2 NC

Types of Conext Gateway Networks

The Conext Gateway can interface with different LAN devices using wired or wireless connections, so you can configure your Xanbus devices and monitor your power system performance.

- Conext Gateway on Xanbus (two separate networks can be supported)
- Conext Gateway on Modbus (via the 26-pin connector)
- Conext Gateway on Local Area Network (LAN, via Ethernet or Wi-Fi)
 When the Conext Gateway is part of a LAN, you can access the Conext Gateway web user interface from a computer on the same LAN via a wireless or wired LAN connection.

An Ethernet connection is required between the Conext Gateway and a router and computer for configuring the Conext Gateway.

Power Sources for the Conext Gateway

The Conext Gateway consumes an average of 2 W under most operating conditions and up to 10 W maximum. The power sources connected to the Conext Gateway must be capable of providing this power requirement.

There are three power sources for the Conext Gateway:

- AC/DC power adapter (supplied)
- Xanbus-enabled device via CAT5 or CAT5e cable (Xanbus cable)
- 9–24 V DC power input connections on the 26-pin connector

All three sources can be used alone or simultaneously. Typically, the AC/DC power adapter (supplied) is used as a primary source with either a Xanbus connection or the 26-pin connector as secondary sources. See "*Physical Features*" on page 13 for connection locations.

DANGER

HAZARD OF ELECTRIC SHOCK AND FIRE

Connect only to Safety Extra Low Voltage (SELV) circuits and power sources.

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

Safety Extra Low Voltage (SELV) is a designation that refers to a circuit in which the voltages within the circuit and from the circuit to ground have values that are not a shock hazard, under both normal and single fault conditions.

In the Conext Gateway, the SELV circuits and their intended connections are:

- The supplied AC/DC power adapter connected to the power port of the Conext Gateway.
- Xanbus communications and power which come from SELV circuits on Xanbusenabled Schneider products.
- 9–24 V DC power input connections which must be SELV and are connected to the Conext Gateway via the 26-pin connector.
- Ethernet circuits or Class 2 circuits (Class 2 is a 24V, 100VA limited circuit).

Conext Gateway Web User Interface

This section describes the elements of the web-based user interface for the Conext Gateway. This interface is used to check the status of the Conext Gateway, configure the communications options, monitor and log data for your network, and perform upgrades. The menu bar contains icons for going to the home screen or setup screen, linking to the Schneider Electric Web site, and closing or logging out of the web user interface.

Correct operation of the web user interface has been verified with the following browsers:

- Google Chrome[™] 34.x or later
- Microsoft® Windows® Internet Explorer® 10.x or later
- Safari® 5.x or later

IMPORTANT: JavaScript and cookies must be enabled in your Web browser for the interface to function.

To access the web user interface, log in with a user name and password. For more details see *Logging in to the Conext Gateway Web Application on page 34*.

Figure 5 Web user interface



1	Main menu bar – displays major menu items including the Dashboard, Devices,				
	Events, and Setup commands. It includes About, which shows Conext Gateway				
	device information.				
2	Sub-menu tabs – displays sub-menu items expanding commands associated with				
	the major menu items.				
3	Main display area				
4	Web app version and build number				
5	Information bar – displays the system date, time, and user type. Also, contains a link				
	to the Disclaimer page and Logout.				
6	Floating Help tab				

2 Installation

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Choosing a Location





- Choose a clean, dry, easily accessible location indoors.
- If you mount the Conext Gateway on a wall, the recommended height is at eyelevel so that you can clearly see the LED indicators and have easy access to the data and communication ports.
- All of the ports on the Conext Gateway are accessible from the sides of the device when mounted on a wall or DIN rail. Clearance of at least 2 inches (50 mm) around the device is needed to allow for the bending radius of cables that connect to the Conext Gateway.
- You should not run cables through conduits that can be exposed to lightning strikes. The following are recommended maximum cable lengths in a Conext Gateway system:
 - 131 feet (40 m) Total Xanbus network
 - 328 feet (100 m) Router to Conext Gateway
 - 164 feet (50 m) Modbus Master (RS 485) to Conext Gateway

Materials and Tools Required

The following materials are supplied in the Conext Conext Gateway package:

- One Conext Gateway unit
- One Conext Gateway Quickstart Guide
- One AC/DC power supply adapter
- One CAT5e Ethernet cable (7-ft)
- One 26-pin connector
- One 75 mm DIN rail

The following materials and tools are not supplied but are required to complete the installation:

- CAT5e Ethernet cable(s)
- Modbus network cables(s)
- Wire stripper
- Ferrules
- Screwdriver set
- Pliers
- Diagonal cutter or heavy duty scissors

Mounting the Conext Gateway

Wall Mount

To mount the Conext Gateway on a wall:

- 1. Choose the location for mounting the device.
- 2. Using the diagram in the *Conext Gateway Quickstart Guide (part number:* 975-0804-01-01), mark the mounting holes on the wall with a pencil.
- 3. The holes must be at the same height and 4 7/16 inches (112 mm) apart.
- 4. Insert the two anchors and mounting screws supplied in the marked locations on the wall, leaving a space of about 1/4 inch (6 mm) between the wall and screw head.
- 5. If you are mounting the Conext Gateway on concrete, the supplied anchors and mounting screws are not suitable. Use two mounting screws that are equivalent to #6 screws.
- 6. Place the Conext Gateway on the mounting screws, and confirm a snug fit before going to the next step.
- 7. Connect the wiring and cables.

DIN Rail Mount

To mount the Conext Gateway on the DIN Rail:

- 1. Use a standard 35-mm "top hat" DIN rail (EN50022).
- 2. You may choose to move the mounting clip to the side as shown.



3. Attach the device to the DIN rail. Hook the bottom catch of the clip onto the rail, pull up a little to retract the bottom catch and hook the top catch of the clip onto the rail.



4. Connect the wiring and cables.

Connecting the Conext Gateway to the Xanbus Network

To connect the Conext Gateway to the Xanbus network:

- 1. Connect the Conext Gateway to the Xanbus network using daisy chain confguration.
 - a. Xanbus components can be arranged in any order.
 - b. The left connectors are Xanbus 1 and the right connectors are Xanbus 2.
 - c. Do not connect two end devices together to form a closed loop configuration.
- 2. Use a network terminator at both ends of the network. See Figure 7.
 - a. Both networks require two Xanbus terminations; *Xanbus 1* and *Xanbus 2*, if the second network is used. *Xanbus 2* does not need terminators if it is not used.
- 3. Do not interconnect two separate Xanbus networks, meaning, do not daisy chain one Xanbus network with another.
 - a. Use only one pair of Xanbus ports for the daisy chain.
 - b. If you only have one Xanbus network use Xanbus 1.
 - c. If you have two separate Xanbus networks connect the second network to *Xanbus 2.*
 - d. Devices on the *Xanbus 1* network will not communicate with devices on the *Xanbus 2* network.
 - e. See Figure 7 for Xanbus 1 pair of ports one top and one bottom.

NOTICE

EQUIPMENT DAMAGE

- Do not connect a Xanbus cable plug into the Ethernet port on the Conext Gateway.
- Connect only to Xanbus ports and use the network terminators to each end device in the daisy chain.
- Do not connect Xanbus 1 and Xanbus 2 together as the system will become unstable.

Failure to follow these instructions can result in equipment damage.



NOTE: This Xanbus 1 network is for illustration purpose only.

Connecting the Conext Gateway to the Internet

Before connecting a computer and router to the Conext Gateway, make sure it meets the following prerequisites.

- Microsoft® Windows® 7 or later
- Mac OS® X 10.4.8. or later
- Google Chrome[™] 34.x or later
- Microsoft® Windows® Internet Explorer® 10.x or later
- Safari® 5.x or later
- JavaScript and cookies must be enabled in your web browser.
- Router the network router must be able to supply DHCP addresses automatically to connected devices. If your network router does not support automatic DHCP, refer to your network router's user guide or contact your system administrator.

To connect the Conext Gateway to a Computer on an Ethernet Network:

NOTICE

EQUIPMENT DAMAGE

- Do not connect an Ethernet cable from the Conext Gateway to the MODEM port on the network router.
- Do not connect an Ethernet cable plug into a Xanbus port on the Conext Gateway.

Failure to follow these instructions can result in equipment damage.

- 1. Make sure the computer and network router are turned on and the Conext Gateway is not turned on. Make sure the network router selected has DHCP enabled.
- 2. Connect one end of an Ethernet cable to the computer's network port.
- Connect the other end of the Ethernet cable to a vacant Ethernet/LAN port on the network router.
- 4. Connect one end of the Ethernet cable (supplied) to the LAN port on the network router.
- 5. At this stage, the network router should be on, but the LED showing port activity on the router will not show any indication.
- 6. Connect the other end of the Ethernet cable to the Conext Gateway.
- 7. At this stage, the Ethernet cable should be the only cable plugged into the Conext Gateway.

Figure 8 Ethernet connection (LAN)



1	Router/modem
2	Laptop
3	Conext Gateway unit
4	Ethernet cables

Turning On the Conext Gateway

Before turning on the Conext XW+, you must connect it to a power source.

Figure 9 Power connections and button



NOTE: In the 26-pin connector, pin 1 connects to a 9-24VDC source and pin 2 connects to GND Power input. See *" 26-pin connector" on page 15*.

To turn on the Conext Gateway:

- 1. Select a power source to the Conext Gateway. You can choose either of the following:
 - a. Plug the (A) AC/DC power adapter into the AC wall outlet
 - b. Connect the Conext Gateway to the Xanbus network **(B)** using Ethernet cables
 - c. Provide 9–24 VDC power via by connecting to a power input source via the 26pin connector **(C)**
- Connect (A), (B), or (C)'s connector to Conext Gateway's Power port for (A), Xanbus port for (B), or terminal block for (C), respectively.
- Connect (A)'s power plug to an AC wall outlet or (B)'s other Xanbus cable connector to a Xanbus port on a Xanbus device. Alternatively, connect (C)'s pins 1 & 2 to a DCpowered device.
- 4. Observe the LED indicators and wait for the Power LED to light up (solid). The Conext Gateway is now turned on.
- 5. Proceed to "Logging in to the Conext Gateway Web Application" on page 34.

WARNING

PHYSICAL INJURY HAZARD

Xanbus is a valid power source for the Conext Gateway. However, for the first time set-up, using Xanbus as a power source is not recommended. the Conext Gateway clock will override the other Xanbus devices' clocks and could trigger unintentional time-based events. Therefore, DO NOT connect the Conext Gateway to the Xanbus network prior to setting up the internal clock of the Conext Gateway. Refer to *"Time Setup" on page 38* for instructions. If Xanbus is the only source powering the Conext Gateway, after installation verify the time settings in all devices.

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

Turning Off the Conext Gateway

To turn off the Conext Gateway:

Press the Power button according to the settings in *Table 1 on page 13* or use the web user interface to shut down the unit and turn it off.

Figure 10 Power button



Power Cycling

To power cycle the Conext Gateway:

- 1. Turn the Conext Gateway OFF.
 - a. Press and hold the Power button according to the settings in *Table 1 on page 13* or use the web user interface.
 - b. Remove the power connections to the Conext Gateway.
- 2. Wait ten seconds before the next step.
- 3. Ensure that there is no USB thumb drive inserted in the USB Host port.
- 4. Turn the Conext Gateway ON.
 - a. Plug and connect the Conext Gateway to a power source.

3 Getting Started

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Using the Conext Gateway Web App via Wi-Fi Access Point (AP)

NOTE: This procedure is not about connecting to a local area network (LAN) via Wi-Fi.

In order to establish a user interface with Conext Gateway, a direct Wi-Fi connection is necessary. The following are the pre-requisites:

- Laptop with Microsoft® Windows® 7 or later, Mac OS® X 10.4.8. or later
- Wi-Fi setting for the laptop is enabled
- Web browser such as Google Chrome[™] 34.x or later, Microsoft[®] Windows[®] Internet Explorer[®] 10.x or later, Safari[®] 5.x or later
- JavaScript and cookies must be enabled in your web browser.

Figure 11 Wi-Fi connection requirements



1	Laptop	
2	Conext Gateway unit.	
	Wi-Fi password label is on the back panel.	

To connect:

- 1. Make sure the laptop and Conext Gateway are turned on.
- 2. Enable Wi-Fi on the laptop, if not already.

3. Open Wi-Fi Settings, then look for and connect to the Conext Gateway SSID. For example, you may look for something similar to **ConextGateway_fe808b** below.



Enter the Password when prompted.
 NOTE: The password is printed on a label on the back panel of the back panel o

NOTE: The password is printed on a label on the back panel of the Conext Gateway unit.

5. Proceed to Logging in to the Conext Gateway Web Application.

Web Security

When you access the Conext Gateway web user interface you may see a warning stating that the web page is not trusted or the web page is not secure. This occurs because the Conext Gateway security certificate is not installed on your computer's operating system. You can elect to proceed anyway, if you are on a private local area network. Alternatively, you may choose to download the web security certificate from the Conext Gateway and install it on your PC. See *"Installing the Conext Gateway Security Certificate" on page 72* for instructions on how to do this using the Chrome web browser on Windows. Other browsers will have similar mechanisms for installing the certificate.

Configuring the Conext Gateway

To complete Conext Gateway setup, you must successfully complete the procedures in *Installation on page 20*. Make sure the Conext Gateway is connected, the Power LED is on, and the Event LED is off. Your Xanbus devices should still be in standby mode.

When you initially log in to the web user interface, most of the setup information appears automatically with their default values. Some information must be changed (such as passwords), some information can be modified as needed, and some information can only be modified by a qualified IT professional.

The following items are part of the Conext Gateway configuration process:

Primary

- 1. Log in see "Logging in to the Conext Gateway Web Application" on page 34
- 2. Change the password see "Changing the Password" on page 35

- 3. Set plant site information see "Plant Setup" on page 38
- 4. Set the system time see "Time Setup" on page 38

Optional/Occasional

- 1. Configure general device settings see "Changing Device Settings" on page 49
- 2. Upgrade the device firmware see "Upgrading Firmware" on page 43

Logging in to the Conext Gateway Web Application

- 1. If you have connected the Conext Gateway via Wi-Fi, go to the IP address https://192.168.100.1 to access the web user interface.
- 2. If you have connected the Conext Gateway via Ethernet use the following steps:
 - a. Insert a blank USB drive into the Conext Gateway USB port. Ensure there are no firmware upgrade files on this USB drive.
 - b. After the Conext Gateway beeps twice, remove the USB drive.
 - c. Insert the USB drive into your laptop USB port.
 - d. Copy the HTML file to your laptop.
 - e. Remove the USB drive from your laptop.
 - f. Open the HTML file and click the link to the IP address of the Conext Gateway.
- 3. Bookmark this address. **IMPORTANT**: The web address is a locally and privately assigned (LAN) device address that is also protected by a firewall.
- 4. Select your User Name. Select Admin.
- 5. Enter your Password. Initial password is Admin123.
- 6. When prompted, change the initial password immediately to protect the device from unauthorized users and to enable changes to device settings. This is an important step to follow.

NOTE: To perform adminstrative functions such as a firmware update, set User Name to **Admin**. Settings are disabled until the initial password is changed.



- 6. Change the Conext Gateway SSID and network password.
 - a. Go to Setup > Network > Wifi Access Point Settings
 - b. (Optional) Replace the current Wi-Fi network name under the **SSID** field with an appropriate name. You are limited to 64 alphanumeric characters including symbols.
 - c. Replace the current password under the **Password** field with 10 or more alphanumeric characters including symbols.
 - d. Click **Apply** to save the new password and/or SSID.

Conext Gateway	Version: v0.24 Build number: 35 Conext Gateway	2018/10/03 23:19 OAdmin Disclaimer Logout	Life Is On Schneider
Dashboard	Devices <u>Setup</u>		Debug Log
Conext Gateway Info	LAN settings		>
Configuration	Barnote diagnostics		>
Network	Cloud settings		>
Manage Passwords	Wili Access Point Settings		
Contrare mannest	6.a.	Access Point	<u>-</u>
		SSID ConextGateway_fe88fa	뽀
	` → 6.c	Password	
		Apply	Cancel

Changing the Password

What to expect when logging in for the first time:

 When logging in to the web application for the first time, either as Admin or User or Guest, the system will automatically ask you to change the password from the factory default Admin123 or User123 or Guest123, respectively.

Figure 12 Message box to change password



• Click **OK** and follow the instructions to change the password.
Figure 1	3 Password	screen
----------	------------	--------

Change password	
You are currently logged in with the default password. Change the p	assword to ensure security of your plant data.
User name	User
Old password	Password
New password	Password
Confirm password	Password
Cr	 6 – 12 characters At least one capital letter At least one number
	Apply Clear
	Schneider Electric

• You may have to log in again after changing the initial password.

To change the password after the initial log in:

Figure 14 Change password setting

Conext Gateway	Version: v0.34 Bul	ld number: 55 Conext	Gateway 2018/11/	01 21:42 OAdmin Disclaimer Logout	Life Is On Schneider
Dashboard	Devices	Events	Setup	About	Debug Log
Configuration	Change passwor	d			~
Network			User name	Select user •	
Manage Passwords			Old password		
			New password		
			Confirm password		
				6 – 12 characters At least one capital letter At least one number	ם
				A	pply Cancel

- 1. Click Setup > Manage Passwords > Change Passwords.
- 2. Select the **User name** type. **Note:** Admin-level can change all passwords. User-level can change User and Guest passwords. Guest-level cannot change any passwords.
 - Admin
 - User
 - Guest
- 3. Enter the **Old password**.
- 4. Enter the New password.
- 5. Enter the Confirm password.
- 6. Click Apply. Your settings will be immediately applied.

Changing Conext Gateway Settings

The procedures for configuring the other Conext Gateway Settings are described in the following sections.

To change Conext Gateway settings:

1. In the main menu bar, click **Setup** > **Configuration**.

The **Configuration** settings appear in the main display area.

- 2. Click any of the following settings.
 - a. Plant setup see Plant Setup on page 38
 - b. Time setup see *Time Setup on page 38*
 - c. Import & export settings see Import and Export Settings on page 39
 - d. Units see Units on page 40
 - e. Modbus settings see Modbus Settings on page 51
 - f. Restart Conext Gateway see Restarting the Conext Gateway on page 41
 - g. Install package see Install Package on page 40

3. With only a few exceptions, you may save a setting by clicking **Apply** or ignore changes by clicking **Cancel**.

That portion of the window expands to display the change options for that setting. The size and content of the expanded window varies depending on the setting type.

Plant Setup

It is recommended to name the plant site to distinguish it from other installations in your power system.

Figure 15 Plant setup screen

Dashboard	Devices	Events	Setup	About	Debug L
Configuration	Plant setup				*
Network			Friendly name	Burnaby Site A	
Manage Passwords			Installed AC capacity (kW)	10000	
			Installed year	2018	

To enter plant information:

- 1. Click Setup > Configuration > Plant setup.
- 2. Enter a **Friendly name**. Choose a name that can easily identify the plant site to your customers.
- 3. Enter the Installed AC capacity (kW).
- 4. Enter the **Installed year**.
- 5. Click Apply. Your settings will be immediately applied.

Time Setup

You can set the time zone plus date and time in the Time setup menu.

Figure 16 Time setup screen

Conext Gatewa	Conext Gateway Version: v1.01 Build number: 124 Conext Gateway		2019/01/16 20:16) Admin Disclaimer Logout Life Is On Schereic	
Dashboard	Devices	Events	Setup	About
Configuration	Plant setup			
Network	Time setup			ł
Manage Passwords				Time zone (-08:00) Pacific Time (US, Canada, Tijuana) 🔻
Device Detection			c	Date & time 2019/01/16 20:16:40
				Apply Cancel
	Import & export se	ttings		

To change the Conext Gateway time:

- 1. Click Setup > Configuration> Time setup.
- 2. Select the **Time zone**. This time setting overrides settings on other devices in the system.
- 3. Enter the date and time by clicking the calendar icon beside Date & time.
- 4. Click Apply. Your settings will be immediately applied.

Import and Export Settings

This command setting allows you to either export the configuration of this Conext Gateway to another Conext Gateway unit or import the configuration of another Conext Gateway to supersede this Conext Gateway unit.

Figure 17 Import & export setup screen

Conext Gatewa	עersion: v0.34 Buil	ld number: 55 Conext Ga	ateway 201	8/11/01 21:40 JAdmin Disclaimer Logout	Life Is On	Schneider
Dashboard	Devices	Events	Setup	About		Debug Log
Configuration	Plant setup					~
Network	Time setup					۲. ۲.
Manage Passwords	Import & export se	ettings				~
		Export setting:	s from this Conext Gatew Download	vay Import settings to this Conext Gateway Upload		

To export settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click Import & export settings.
 - a. Click **Download**. The compressed configuration file *usersettings.zip* will be automatically saved to the **Downloads** folder of the browser.
 - b. If necessary, you may copy this file to an external drive and later import it to a different Conext Gateway device.

To import settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click Import & export settings.
 - a. Click Upload.
 - b. Locate the compressed configuration file *usersettings.zip* from a local directory or an external drive.
 - c. Click **Restart now** to finish the importing of the configuration file.

Units

This setting allows you to change the standard unit of measurement used in solar irradiance, temperature, and wind speed.

Figure 18 Units setup screen

Dashboard	Devices	Events	Setup	About		Debug L
configuration	Plant setup					*
etwork	Time setup					*
lanage Passwords	Import & export :	settings				*
	Units					*
			Irradianc	e W/m²		
			Temperatur	°C	•	
			Wind spee	d m/s		

To change units:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- Click Unit.
 Currently, only Temperature can be changed to either celsius or farenheit.
- Save the settings by clicking Apply .
 Alternatively, ignore the changes by clicking Cancel.

Install Package

To install a Conext Gateway upgrade remotely:

 From the Conext Gateway Web Application home page, go to Setup > Configuration > Install Package.

Conext Gateway	Version: v0 27 Build number: 46 Conext Gateway	2018/10/15 17:49 OAdmin Disclaimer Logout	Life Is On	Schneider
Dashboard	Devices Events Setup			Debug Log
Conext Gateway Info	Plant season			>
Configuration	Time setup			>
Network 1	Import & export settings			>
Manage Passwords	Units			>
	Modbus settings			<mark>ہ</mark> د
``	Restart Conext Gateway			×
	Install Package			•
	Installed firmware Version V0.27 Baltommore 46			
	Manual under			
	opendiprivage Ott package			
	Automatic update * Enake Databe			
		Ар	ply	Cancel

- 2. Download the firmware package.
 - a. Click **Get package**. This will take you to the Conext Gateway product webpage.
 - b. From the product webpage, go to **DOWNLOADS > Firmware**.
 - c. Search for the latest firmware package from the list and click it to begin downloading.
 - d. Save the . ${\tt epkg}$ file to a local directory.
- 3. Go back to the Conext Gateway Web Application.
- 4. Click Upload package .
- 5. Search and select the firmware package (.epkg file) you saved in a local directory from the Conext Gateway product webpage.
- 6. Click Open from the Windows dialog. The upgrade begins automatically.
- 7. As the firmware package is transferred to the Conext Gateway, progress is indicated in percentage, and a message screen indicates when the file transfer has been completed successfully.
- 8. When prompted, reboot the Conext Gateway. See *Restarting the Conext Gateway* on page 41.

Restarting the Conext Gateway

You are allowed to restart, reset the configuration, or return the Conext Gateway to all of the original factory settings remotely from the web user interface or by pressing and holding the Power button according to the settings in *Table 1 on page 13*.

	Figure 19	Restart	Conext	Gateway	screen
--	-----------	---------	--------	---------	--------

Conext Gatewa	Version: v0.34 Buil	ld number: 55 Conext C	Gateway 2018	11/01 21:40 OAdmin Disclaimer Logout	Life Is On Schneider
Dashboard	Devices	Events	Setup	About	Debug Lo
Configuration	Plant setup				*
Network	Time setup				~
Manage Passwords	Import & export se	ettings			~
	Units				~
	Modbus settings				*
	Restart Conext Ga	ateway			~
		[Restart Conext Gateway		
		[Reset configuration	Resets the Conext Gateway settings, includi configuration, and plant setup. Does not affe attatched devices.	ing passwords, network ict the configuration of
		[Reset to factory settings	Forgets all detected devices, removes data I and resets configuration.	logs, removes event logs,

Choose what to do in the web user interface:

- 1. Click Setup > Configuration > Restart Conext Gateway.
- 2. Click any of the action buttons depending on the kind of reset you want to perform.
 - Restart Conext Gateway will execute a soft restart of the Conext Gateway unit.
 - **Reset configuration** will execute a reset of Conext Gateway settings, including passwords, network configuration, and plant setup. This action does not affect the configuration of connected devices.
 - Reset to factory settings will execute a complete return to factory settings including forgetting all detected devices, removing data logs, removing event logs, and resetting all configuration.
- 3. Follow the succeeding instructions.

Upgrading Firmware

You can perform firmware upgrades for your Conext Gateway and Xanbus-enabled devices when they are available for download.

There are three upgrade procedures, namely:

- "Installing Conext Gateway Upgrades From a USB Drive" below
- "Installing Conext Gateway Upgrades Remotely" on the facing page
- "Upgrading Other Device Firmware" on the facing page

Installing Conext Gateway Upgrades From a USB Drive

Follow the procedure below to change the Conext Gateway firmware to an updated version.

To update the firmware:

- 1. Using a laptop computer, format a USB drive and open a web browser.
- 2. Go to *http://solar.schneider-electric.com* and download the latest Conext Gateway firmware version (contained in a ZIP file).
- Navigate to Products > Battery Based Inverters > Accessories > Conext Gateway
- Click DOWNLOADS > Firmware > FWYYYYMMDD-Gateway VX.XX BNXXXX (865-0326).ZIP
- 5. Pick the firmware version (V) with a higher number and also a higher build number (BN). The ZIP file is approximately 35 MB.
- 6. Extract the .epkg file from the ZIP file into the root directory of the USB drive (supplied with the unit).
- 7. To initiate the update to the firmware:
 - a. Insert the USB drive into the port on the Conext Gateway.
 - b. The Conext Gateway will beep once and the LED will blink while the the firmware is copied to the Conext Gateway and the upgrade is performed. This can take 5–10 minutes.
 - c. If the update takes more than 10 minutes, make sure that the .epkg file is copied correctly into the root directory.

Important: Once the USB drive is inserted, Do not turn off the Conext Gateway.

- 8. Once the firmware upgrade is done, the Conext Gateway emits two beeps. and the LED indicator stops blinking.
- 9. Remove the USB drive.
- 10. Manually reboot the Conext Gateway using the power switch to complete the firmware upgrade process.

Installing Conext Gateway Upgrades Remotely

For full instructions, see "Install Package" on page 40.

Upgrading Other Device Firmware

It is possible to upgrade a device's firmware through the Conext Gateway web application.

NOTICE

RISK OF EQUIPMENT DAMAGE

- Consult the device's Owner's Guide when changing the device's settings.
- Make sure the device connected on the Xanbus or Modbus network is in Standby mode before changing settings.
- Do not change any settings unless you are familiar with the device.

Failure to follow these instructions can result in equipment damage.

Figure 20 Sample Device Overview screen - List display

Dashboard	Devices	Events	Setup	About	
Sevice Overview	Inverter/Charger: 0 0 Status Perfe	Change Selection	Configuration	Diagnostics	Firmware
nverters					
nverter/Chargers	Firmware Vers	sion	1.04.00 PI	lease select the firmw	vare, ending with the file extension .xf0 or .xf1
Disease Constantinue	Build Version		2	Upgrade	Upgrade All XWs

To obtain the firmware package:

- 1. From a laptop computer, open a web browser.
- 2. Go to *http://solar.schneider-electric.com* and download the latest version of the correct device firmware (contained in a ZIP file).
- 3. Navigate to the appropriate product page.
- 4. Click DOWNLOADS > Firmware >FWYYYYMMDD-Product NameVX.XX BNXXXX (Product Number).ZIP.
- Pick the firmware version (V) with a higher number and also a higher build number (BN). The ZIP file is approximately 6 MB.
- 6. Extract the .xf0 file from the ZIP file into a folder on the local drive.

To upgrade a device firmware:

- 1. In the main menu bar, click **Devices**.
- 2. Put the device in to Standby mode first.
 - a. Click a device you want to put in to Standby mode.
 - b. Click Configuration > Controls.
 Note that Controls may be called differently such as AGS Control.

- c. Search for the control setting Operating Mode.
- d. Select Standby.
- e. Click Apply.
- 3. Click Firmware.
- 4. Click Upgrade.
- 5. Follow the step-by-step upgrade instructions.
- 6. To upgrade all similar devices in the network, click Upgrade All.
- 7. Follow the step-by-step upgrade instructions.
- 8. Use the **Operating Mode** menu to put the device back into normal operating mode.

4 Adding and Configuring Devices

What's in This Chapter?

Connecting and Configuring Modbus Devices	47
Removing a Modbus Device	48
Changing Device Settings	49
Modbus Settings	51
Device Association	52
Configuring a Multi-Cluster System	53
Configuring an AC-Coupled System	55
Configuring the Grid Code Region	56

Connecting and Configuring Modbus Devices

Connect Modbus wires to pins 16, 18, and 20 (see *Physical Features*), and then complete the following steps in the Conext Gateway web application:

- 1. Go to Setup > Configuration > Modbus Settings.
- 2. Complete the Serial Port setup and then click Apply.

Dashboard	Devices	Events	Setup	About				
Configuration	A Plant setup		- 6					>
Network	Time setup							>
Manage Passwords	Import & export a	ettings						>
Device Detection	Unita							>
	Nodbus settings							~
	`> 🖑			Serial Port 1				
		` ~ _		Baud rate	9600	•		
				Parity	none	*		
				Stop bits	1			
				Serial Port 2				
				Baud rate	3600	•		
				Parity	none	•		
				Stop bits	2			
							Apply	Cancel

- 3. Go to Home > Setup > Device Detection.
- 4. Under Range, enter a Modbus address range and then click Detect.

Dashboard	Devices	Events	Setup	About	
			0		
Configuration	Detect devices				
Network /	Port F	lange			
Manage Passwords	RS-485- 1	to			
Device Detection	RS-485- 2	to			
O .	,1				
· · .					

- 5. Go to **Devices** and then select a device.
- 6. Go to Configuration and configure the device. Repeat steps 5 and 6 for each device.

Device Overview	Inverter: 0.0 Change Selection		
Inverters		3	CL25[3]
Inverter/Chargers	0	C Basic Advanced	Online
Charge Controllers	CI 25 Dev	•	
Other Devices			
Meters	Device Association	ne • Device Number 0	
	Device Name 0 1	ad	^{@+}
		Apply Reset	

Removing a Modbus Device

To remove a Modbus device from Conext Gateway:

- 1. Disconnect the device from the bus.
- 2. Log in to the Conext Gateway web application.
- 3. Select the **Devices** tab and then navigate to the Modbus device that you want to remove.
- 4. Verify that the device is "Offline" and then click on the device.

PM8XX 0	Offline
Device Association	
Total Real Power	
Voltage Average	
Voltage Phase A	180634 мин
Voltage Phase B	
Voltage Phase C	_
Current Average	_
Current Phase A	_
Current Phase B	_
Current Phase C	_
Frequency	—

5. Click Delete Device.

Device	es Events	Setu	ıp About		
Meter: PM	8XX 0 Change Selection				
Diagnosti	ics			[
Historic	al Events				PM8XX 0 Offline
	Time	ld	Name	Description	
					200407 ≠ 549401 120 ∨ ##0 57 × ##0 180534 million ###2 10:17 FM →
					Delete Device

6. In the Delete Device dialog, click Delete.



7. Restart your Conext Gateway (recommended).

Changing Device Settings

Before making any changes, familiarize yourself thoroughly with the effects of changing the settings of another device.

NOTICE

RISK OF EQUIPMENT DAMAGE

- Consult the device's Owner's Guide when changing the device's settings.
- Make sure the device connected on the Xanbus or Modbus network is in Standby mode before changing settings.
- Do not change any settings unless you are familiar with the device.

Failure to follow these instructions can result in equipment damage.

Figure 21 Sample Device Overview screen - Icons display

Dashboard	Devices	Events	Setup Abo				Debug
vice Overview	7 devices Display	ist Icons					
rerters							
erter/Chargers	XW [20099]	Online	MPPT [1328371]	Online	HVMPPT	[838217] (Online
arge Controllers	Operating Operating Mode		Operating Operating Mode		Operating C Mode	Operating	•
her Devices	Inverter Invert Status		Charger Not Status Charging		Charger Status	Float	•
	Charger Qualifying Status AC		Charge Primary Mode Status		Charge So Mode Status	econdary	
	Inverter Split Phase Mode Master		DC Input Solar Array 1 Association		DC Input Sola Association	ir Array 1	
	Load AC 93W Power		(PV) Input DC 0W		(PV) Input DC	0W0	
	Load AC 244.32V Voltage		Power Input DC 0.06V		Power Input DC	303.33∨	
	Load AC 60Hz Frequency		DC Output House		Voltage DC Output	House	
	Grid AC 0W Input Power		Association Battery Bank (Battery) 1		Association Batt (Battery)	ery Bank 1	
	Grid AC 0V Voltage		Output DC 0W Power		Output DC Power	1W	
	Grid AC 0Hz Frequency		Output DC 28.08V Voltage		Output DC Voltage	28.19V	
	Generator 0W AC Power						
	Generator 0V AC Voltage						
	Generator OHz						
	Prequency 225W Power						
	AGS [200031]	Online	AGS [804090]	Online	BATTMON	1 [259586]	Online
	Operating Operating	and the second s	Operating Operating	20	DC Association Pott	House	
	Generator Off		Generator Off		(Battery)	1	
	Auto Manual Off		Auto Manual Off		of Charge	28 19\/	
	State Generator Generator 1		State Generator Generator 1		Voltage	1.68A	
	Association AC Input Grid 1		Association AC Input Grid 1		Current	30degC	
	Association DC Input House		Association DC Input House		Temperature		
	Association Battery Bank		Association Battery Bank				

Figure 22 Sample Device Overview screen - List display

Dachboard	Devices	Evente	Sotup	About	Debug
Dashboard	Devices	Lvents	Setup	About	
Device Overview	7 devices Display	List Icons			
Inverters	Device type	Device Id	Status		
Inverter/Chargers	xw	20099	Online		
	GT	835209	Online		
Charge Controllers	HVMPPT	838217	Online		
Other Devices	MPPT	1328371	Online		
	AGS	804090	Online		
	BATTMON	259586	Online		
	AGS	200031	Online		

To change a device setting:

- 1. In the main menu bar, click **Devices**. See *Figure 21* for a sample of the default display of all connected devices.
- 2. If you want a shorter list of devices, switch to a List display. See Figure 22.
- 3. Put the device in to Standby mode first.
 - a. Click a device you want to put in to Standby mode.
 - b. Click Configuration > Controls.
 Note that Controls may be called differently such as AGS Control.
 - c. Search for the control setting **Operating Mode**.
 - d. Select Standby.
 - e. Click Apply.
- 4. Click Configuration
- 5. Choose either **Basic** or **Advanced** settings.
- 6. Click a device setting category. For example, **Inverter Settings** in the case of an inverter device.
- 7. Change a specific setting by selecting from a drop down list, toggling a switch, or entering a different value.
- 8. Click Apply to save the changes.
- 9. Use the **Operating Mode** menu to put the device back into normal operating mode.

Modbus Settings

This setting allows you to change the Modbus serial port communication settings.

Figure 23 Modbus settings screen

Conext Gateway	Version: v0.34 Build nun	nber: 55 Conext Gatewa	ay 2	2018/11/0	01 21:40 🧿 Admir	Disclaimer Logout	Life Is On	Schneider
Dashboard	Devices	Events	Setup		About			Debug Log
Configuration	Plant setup							•
Network	Time setup							~ ₽
Manage Passwords								-
	Import & export setting	8						~
	Units							*
	Modbus settings							~
			Seria	al Port				
			Bau	ud rate	9600	•		
				Parity	none	٠		
			Ste	op bits	1	٣		
						Арр	ly	Cancel

To change Modbus settings:

- In the main menu bar, click Setup > Configuration.
 The Configuration settings appear in the main display area.
- 2. Click Modbus settings.
 - a. Select the proper **Baud rate**.
 - b. Select the correct Parity.
 - c. Select the corresponding Stop bits.
- Save the settings by clicking Apply .
 Alternatively, ignore the changes by clicking Cancel.

Device Association

This procedure describes how to set device associations from the Gateway web application.

To associate devices:

- 1. In the main menu bar, click **Devices** and then select the device type from the left menu.
- 2. On the device page, select **Configuration** and then click **Advanced**.
- 3. Click Associations to expand the section.

AC1 Association (Grid)	Grid 1	•	AC Output Association	AC Load 1
AC2 Association (Generator)	None	•	Battery	House Battery Bank 1
(Generator)	None		Battery	House Battery Bank 1

- 4. Select the correct association(s) from the drop-down menu(s).
- 5. Click Apply.
- 6. To verify the associations, select the **Status** tab and confirm that all associations are correct.

nverter/Ch	arger: XW8548-61 3 C	hange Selectio	n			
Status	Performance	Events	Configuration	Diagnostics	Firmware	
Inverter S	Status	er Disabled				
Charger	Status	er Disabled				
Modbus	Address		0	Device Present		Active (data valid)
Inverter E	Enabled Status		Enabled	Charger Enabled	Status	Enabled
Sell Enat	oled Status		Disabled	Device State		Safe Mode
Inverter S	Status		Inverter Disabled	Charger Status		Charger Disabled
Active Fa	aults		No Faults	Active Warnings		No Warnings
Battery A	ssociation		House Battery Bank 1	DC Voltage		54.7 V
DC Curre	ent		0 A	DC Power		0 W
Battery T	emperature		N/A	Charge Mode Sta	tus	Secondary
AC1 <mark>Ass</mark>	ociation (Grid)		Grid 1	AC1 Power		0 W
AC1 L1 \	/oltage		0 V	AC1 L1 Current		0 A
AC1 L2 \	/oltage		0 V	AC1 L2 Current		0 A
AC1 Volt	age Qualified		Not Qualifying	AC1 Frequency C	Qualified	Not Qualifying
AC1 Qua	alified Duration		0 s	AC2 <mark>Association</mark> ((Generator)	None
AC2 Volt	age		31.5 V	AC2 L1 Voltage		31.5 V
AC2 L2 \	/oltage		0 V	AC2 Frequency		0 Hz
AC2 Pow	/er		0 W	AC2 L1 Current		0 A
AC2 L2 (Current		0 A	AC2 Voltage Qua	lified	Not Qualifying
AC2 Free	quency Qualified		Not Qualifying	AC2 Qualified Du	ration	0 s
AC Outp	ut <mark>Association</mark> (Loads)		AC Load 1	AC Load Frequen	ю	0 Hz
AC Load	Power		0 W	AC Load L1 Volta	ge	0 V
AC Load	L1 Current		0.1 A	AC Load L2 Volta	ge	0 V
AC Load	L2 Current		0 A			

Configuring a Multi-Cluster System

A multi-cluster system is a backup system where multiple inverter-chargers are AC coupled (on the AC1 port) with Loads, PV inverters (optional), the Grid and generators (optional).

This system typically has a combiner box that has required hardware and AC power meters to measure Grid, Load, Generator and PV inverter parameters.



To configure a multi-cluster system:

If the power meter associations are configured correctly, the Conext Gateway automatically detects if the system is in Multi-cluster mode.

For a multi-cluster system to operate properly, the following conditions must be met:

- There must be at least two power meters in the system
- One power meter must be measuring the **multi-cluster load** parameters:
 - a. Log in to the Gateway web application.
 - b. Go to **Devices > Meters**.
 - c. Select a meter.
 - d. From the meter page, go to **Configuration > Advanced Device Settings**.

e. From the Device Association drop-down menu, select MultiCluster Load.

3XX_DEV		
Device Association		Unassociated
Device Name	PM8XX	Unassociated Generator Load
		Grid Inverter Load
		MultiCluster Load

- One power meter must be measuring the grid parameters:
 - a. Follow steps a to d above. grid parameters:
 - b. From the **Device Association** drop-down menu, select **Grid**.

18XX_DEV		
Device Association		Unassociated
Device Name	PM8XX	Unassociated Generator Load
		Grid
		Inverter Load
		Inverter Grid MultiCluster Load

Once all of the prerequisites above have been met, the Dashboard should look similar to the one below:



Configuring an AC-Coupled System

This procedure describes how to associate a PV inverter's point of coupling in an ACcoupled system.

To configure an AC-coupled system:

- 1. In the main menu bar, click **Devices** and then select the device type from the left menu.
- 2. On the device page, select **Configuration** and then click **Advanced Device Settings**.
- 3. From the drop-down menu, select either **Load** or **Grid** (depending on how your system is set up).

Dashboard	Devices	Events	Setup	About		
Device Overview	Inverter: CL36 0 Cha	nge Selection	Diagnostica			
Inverters	Status Pend		alion Diagnostics			
Inverter/Chargers					[Basic Advanced
Other Devices	Advanced Device S	ettings				~
Meters	Device Association		Grid 🔹	Device Number	0	
	Device Name	CL3 L	.oad Grid			
					Apply	Reset

Configuring the Grid Code Region

Note: This procedure is for authorized personnel only.

- 1. Log in to the Conext Gateway web application.
- 2. Go to Devices > Inverter/Chargers, and then select the Conext XW Pro Inverter.
- 3. Select Grid Codes.

Device	s Eve	nts	Setup	About		
Inverter/Ch	arger: XW6848-22 0 C	hange Selection	1			\frown
Status	Performance	Events	Configuration	Diagnostics	Firmware	Grid Codes
Inverter S	Status	ing				
Charger	Status	ying AC				
Modbus	Address			0	Device Pres	ent
Inverter E	Enabled Status			Enabled	Charger Ena	abled Status

- 4. Type in the password.
- 5. Press Submit.
- 6. Select a region from the Select Region drop-down menu.

vices	Eve	nts	Setup	About		
r/Charg	er: XW6848-22 0 C	hange Selectior	ı			
i	Performance	Events	Configuration	Diagnostics	Firmware	Grid Codes
	Select Region	IEEE1547	•	Select Fu	nction: Ramp R	ate RR
00						
0						

- 7. Go through the options in the **Select Function** drop-down menu and configure the settings below the graph.
- 8. Click Apply.

5 Monitoring

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Monitoring LED Indicators

LED indicators allow you to monitor the functioning of the Conext Gateway.

Table 2 LED indicators

lcon	Color	LED	Description
\bigcirc	Green	Power	The Conext Gateway is powered and ready to communicate when on.
0	Green	Memory	Device is logging data to internal memory when flashing.
Ċ	Green	Cloud	Device is actively transferring data with a communication device/s.
$\overset{\scriptscriptstyle\times}{}$	Green	Xanbus	Device is actively transferring data with a Xanbus device/s.
⊗	Green	Modbus	Device is actively transferring data with a Modbus device/s.
	Red	Event	Devices on the Power system have events or alerts when on.
((م))	Blue	Wi-Fi	Wi-Fi connectivity is established.

Startup

The Power LED flashes slowly when the Conext Gateway application is loading and flashes quickly during application initialization. The other LEDs illuminate as startup progresses. Once the Conext Gateway is ready, the Power LED turns on (solid). This process takes about two minutes.

Monitoring the Power Plant

You can view the current state of the power plant by viewing the Conext Gateway dashboard.

With the **Dashboard**, you can view power flow between the connected devices, battery information, and energy production and consumption.

Figure 24 Dashboard



1	Power flow tab – shows an interactive and graphical view of the power plant with its different connected devices.
2	Battery summary tab – shows a historical line graph of four battery metrics such as current, volts, temperature, and state-of-charge (SOC). It shows one battery at a time.
3	Battery comparison tab – shows a historical and comparative line graph of the four battery metrics against all the different batteries.
4	Energy tab – shows a chronological summary of energy that is produced by three sources; solar, grid, and battery. Also shows a chronological summary of energy that is output to four energy consumers; load, grid, battery, and generator.
5	Energy comparison tab – shows a comparative graph between energy input and output.
6	Main display board – shows the different graphical elements of the power plant, the devices, battery, and energy information.

To view the dashboard:

- 1. After successfully logging in, the very first view to show on the main display board is the **Dashboard Power Flow**.
- 2. Click each of the tabs on the left to switch to different views.

6 Troubleshooting

What's in This Chapter?

Events

The events detected and monitored by Conext Gateway vary in type. The types of events are categorized into warnings and detected faults. Warnings are displayed as orange icons with an exclamation point. Detected faults are displayed as red icons with an exclamation point.

When devices detect an event that usually resolves by itself, it is still reported to Conext Gateway and logged. It is logged under **Historical** (see *Figure 26*). However, events that happen repeatedly escalate to a fault or sometimes the device detects a fault, such as a ground fault. When a fault is detected, it is also reported to Conext Gateway and logged. If service intervention is required, it is logged under **Active** (see *Figure 25*). It remains there until service is performed. Also, if user intervention is required, such as remotely resetting a device, the event is logged under **Active** and remains there until the user is able to perform the necessary action.

Figure 25 Active events

Dashboard	Devices	Events	Setup	About			Debug L
ctive	Event Type 📼	Time 🔻	Device Type 📼	Device Id 🔍	Id 👻	Name 👻	Description
listorical	0	2018/08/25 08:47:09 +0100	HVMPPT	838217	82	Network Power Supply Fault	The Network Power Supply has failed. Solution:
	0	Not Available	GT	835209	54	APS Off	PV Voltage is zero, and grid voltage is within limits (240V AC). Solution:

Figure 26 Historical events

Dashboard	Devices	Events	Setup	About			Debug Lo
tive	Event Type 🤝	Time	Device Type	Device Id 👻	Id 👻	Name	Description
storical	0	2018/10/30 00:54:39 +0000	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	•	2018/10/25 07:14:23 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	•	2018/10/15 21:34:48 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	•	2018/10/15 08:05:59 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	•	2018/10/03 02:03:53 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	0	2018/10/02 19:14:09 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	•	2018/10/01 14:57:11 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	0	2018/09/28 18:48:48 +0100	HVMPPT	838217	4	Battery Over Temperature Warning	Cause: The battery is too hot. Solution:
	0	2018/09/28 03:46:12 +0100	MPPT	1328371	71	DC Over-current shutdown	Cause: DC output current is too high. Solution:
	9	2018/09/28 03:46:12 +0100	HVMPPT	838217	71	DC Over-current shutdown	Cause: DC output current is too high. Solution:

To view Events:

- In the main menu bar, click Events.
 The Active events are displayed first in the main display board.
- 2. Click Historical to view events that have been logged and/or resolved.
- 3. To download a copy of the events, click the **CSV** icon on the lower right hand corner of the main display board.

7 Specifications

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Electrical Specifications

NOTE: Specifications subject to change without prior notice.

NOTICE

EQUIPMENT DAMAGE

Do not power the unit without first installing the supplied antennas.

Failure to follow these instructions can result in equipment damage.

Power Consumption	2 W average / 10 W peak
AC/DC adapter (supplied)	Input: 100-240 V AC, 50-60 Hz, 0.48 A, Output: 12 V DC, 1.6 A, 5.5 mm outer, 2.1 mm center- positive jack. NOTE : Required when used with the Conext SW.
Xanbus	When connected to Conext XW Pro/XW+ or MPPT 80 600 providing network power
9–24V on 26-pin connector	9–24 V DC, 1 A max input only through pins 1 and 2 Accepts 16–24 AWG pin wire size.
Operation Frequency	2412–2472 MHz (Europe) 2414–2462 MHz (N. America)
Max. radio frequency power transmitted	17.06 dBm (E.I.R.P., Declaration for EU)

Physical Specifications

NOTE: Specifications subject to change without prior notice.

Weight (device only)	337 g (0.74 lb)
Dimensions (device only)	137 x 131 x 41 mm (5.4 × 5.2 × 1.6 inches)
$(W \times H \times D)$	
Shipping package dimensions	158 × 158 × 188 mm (6.2 × 6.2 × 7.4 inches)
Shipping package weight	920 g (2 lbs)
Housing/Mounting system	ABS Plastic / 35-mm DIN rail clip
IP rating / Mounting Location	IP 20, NEMA 1, Indoor only
Status Display	7 x LEDs
Temperature	Operating: -4 to 122 °F (-20 to 50 °C) Storage: -40
	to 185 °F (-40 to 85 °C) Maximum case
	temperature: 140 °F (60 °C)
Humidity	Operating: < 95%, non-condensing Storage: < 95%

Features

NOTE: Specifications subject to change without prior notice.

Programmable dry contact relay	Screw 3-terminal, 16-24 AWG, NC-Com-NO, Form: Class 2, 24 V DC, 4 A max SELV input only
Web-base user interface	Internet Browser
Remote firmware upgrades	Yes (Conext Gateway and connected Xanbus devices)
Custom Data logger	Yes (requires Micro-SD card)

Regulatory

NOTE: Specifications subject to change without prior notice.

EMC immunity	EN61000-6-1	EN 55035
	EN 301 489-1, -17	
EMC emissions	EN61000-6-3	EN 55032
	EN 301 489-1, -17	
	FCC part 15B	ICES-003
Substances / environmental	RoHS	
FCC ID	Contains 2AODL-CONEXTGTWY	
IC ID	Contains 24209-CONEXTGTWY	
Model number	865-0329	

FCC Regulatory Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Compliance

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier: Trade Name: Conext Gateway Model No.: 865-0329

Responsible Party – U.S. Contact Information

Schneider Electric Solar Inverters USA, Inc. 250 S. Vasco Road, Livermore, CA 94551 https://solar.schneider-electric.com/

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ISED Regulatory Compliance

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1. L'appareil ne doit pas produire de brouillage;
- 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

CAN ICES-3 (B)/NMB-3(B)

Simplified EU Declaration of Conformity

Hereby, Schneider Electric declares that the radio equipment type 865-0329 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://solar.schneider-electric.com/

Schneider Electric Products that Work with the Conext Gateway

- Conext XWPro Inverter / Charger:
 - Conext XW Pro 8548 Product No. 865-8548-55
 - Conext XWPro 6848 NA Product No. 865-6848-21
- Conext XW+ Inverter / Chargers:
 - Conext XW+ 7048 E Product No. 865-7048-61
 - Conext XW+ 8548 E Product No. 865-8548-61
 - Conext XW+ 5548 NA Product No. 865-5548-01
 - Conext XW+ 6848 NA Product No. 865-6848-01
- Conext SW Inverter / Chargers:
 - SW 2524 120/240 Product No. 865-2524
 - SW 4024 120/240 Product No. 865-4024
 - SW 2524 230/240 Product No. 865-2524-61
 - SW 4024 230/240 Product No. 865-4024-61
- Conext MPPT 60 150 Solar Charge Controller: Product No. 865-1030-1
- Conext MPPT 80 600 Solar Charge Controller: Product No. 865-1032
- Conext System Control Panel (SCP): Product No. 865-1050-01
- Conext Automatic Generator Start (AGS): Product No. 865-1060-01
- Conext Battery Monitor: Product No. 865-1080-01

Dimensions

NOTE: Specifications subject to change without prior notice.



A Using Chrome to Install the Conext GatewaySecurity Certificate

What's in This Chapter?
Installing the Conext Gateway Security Certificate

These instructions explain how to download the web security certificate from the Conext Gateway and install it on your PC using Chrome on Windows 7 or Windows 10.

To export the security certificate:

- 1. Open the Chrome developer tools using one of the following methods:
 - a. Press F12.
 - b. Click the three dots in the top right-hand corner of the window, then click **More Tools** and then **Developer Tools**.
 - c. Use the keyboard command Ctrl+Shift+I.
- 2. Navigate to the Security tab in Developer Tools.
- 3. Click View Certificate.

Figure 27 Security tab



4. Click the **Certification Path** tab.

Figure 28 Certificate path tab

<u></u>
View Certificate
cause it is not in the Trusted Root

5. Click View Certificate.

6. Confirm that the hex string following the underscore in the Issued By: statement matches the MAC Address of your Conext Gateway.

Figure 29 View certificate

Certificate	
General Details Certification Path	mory Applicat
Certificate)
General Details Certification Path	
Certificate Information This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.	te chain
Issued to: SchneiderElectric_00D0694CC5D3 Issued by: SchneiderElectric_00D0694CC5D3	d and authentic ge (ECDHE_RS.
Valid from 08/ 12/ 2017 to 03/ 12/ 2037	ecurely.
Learn more about <u>certificates</u>	
	<u>ل</u>

7. Click the **Details** tab.

Figure 30 Details tab

Certificate	_	x
General Details Certification Path		
Show: <all></all>	•	
Field	Value	-
Version Serial number Signature algorithm Signature hash algorithm Signature hash algorithm Subic from Valid from Subiect	V3 00 e4 cb d8 79 01 79 c4 8b sha256RSA sha256 SchneiderElectric_00D0694CC December-08-17 2:51:15 PM December-03-37 2:51:15 PM SchneiderElectric_00D0694CC	4 III
Ed Learn more about <u>certificate details</u>	lit Properties Copy to File.	

8. Click **Copy to File...** to open the Certificate Export Wizard and then click **Next**.

Figure 31 Certificate Export Wizard

Certificate Export Wizard	
	Welcome to the Certificate Export Wizard This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk. A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept. To continue, dick Next.
	< Back Next > Cancel

9. Click the radio button beside **DER encoded binary** and then click **Next**.

Figure 32 Export settings

Expor	r t File Format Certificates can be exported in a variety of file formats.		
s	elect the format you want to use:		
	DER encoded binary X.509 (.CER)		
	Base-64 encoded X.509 (.CER)		
	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)		
	Include all certificates in the certification path if possible		
	Personal Information Exchange - PKCS #12 (.PFX)		
	Include all certificates in the certification path if possible		
	Delete the private key if the export is successful		
	Export all extended properties		
	Microsoft Serialized Certificate Store (.SST)		
Learn	more about <u>certificate file formats</u>		

10. Click **Finish** to save it to your file system (remember where it has saved).

Figure 33 Confirmation

Certificate Export Wizard		×	
Completing the Certificate Export Wizard You have successfully completed the Certificate Export wizard. You have specified the following settings:			
	File Name	C:\Use	
	Export Keys	No	
	Include all certificates in the certification path	No	
	File Format	DER En	
	< <u> </u>	•	
	< Back Finish	Cancel	

To import the security certificate:

- 1. Using the windows file browser, go to the location where you saved the certificate file, and double-click the certificate file.
- 2. Click Install Certificate and then click Next.

Figure 34 Certificate Import Wizard

Certificate Import Wizard	X
	<text><text><text><text></text></text></text></text>
	< Back Next > Cancel

3. Click the radio button beside **Place all certificates in the following store** and then click **Browse**.

Figure 35 Import settings

Certificate Store	
Certificate stores are system are	eas where certificates are kept.
Windows can automatically selec the certificate.	ct a certificate store, or you can specify a location for
Automatically select the c	ertificate store based on the type of certificate
Place all certificates in the	e following store
Certificate store:	
	Browse
earn more about certificate stores	
earn more about <u>certificate stores</u> .	
earn more about <u>certificate stores</u> .	
earn more about <u>certificate stores</u> .	

4. Click **Trusted Root Certificate Authorities** (Windows 10), or **Trusted Publishers** (Windows 7) and then click **OK**.

Figure 36 Select certificate store

Intermediate Certification Authorities Active Directory User Object Trusted Publishers Untrusted Certificates Third-Party Root Certification Authorities Trusted People III

The Certificate Import Wizard should look like this:

Figure 37 Import settings confirmation

	Store
Certif	icate stores are system areas where certificates are kept.
Wind the o	ows can automatically select a certificate store, or you can specify a location for ertificate.
C	Automatically select the certificate store based on the type of certificate
۲	Place all certificates in the following store
	Certificate store:
	Trusted Root Certification Authorities Browse
earn mor	e about <u>certificate stores</u>

- 5. Click **Next** and then click **Finish**.
- 6. Click **Yes** to the security warning, and then click **OK** when the Certificate Import Wizard confirms the import was successful.
- 7. Restart your browser and confirm the word Secure is now beside the Conext Gateway web user interface address.

Figure 38 Website secure

your	Combox PI ×	C Login	×	
0	Secure	https://10.167.90.104/log	in.html	
Com	ox Pro Board	TeamForge : Reposito	📑 Gerrit	Help - QNX SDP 6.6

Schneider Electric

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

For other country details please contact your local Schneider Electric Sales Representative or visit the Schneider Electric Solar Business website at: http://solar.schneider-electric.com/

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