

Conext™ Gateway/ InsightHome and InsightFacility Release Notes

Please always update all your Xanbus devices to the latest firmware.

Version: v1.18 Build 041 [25 July 2023]

Please clear your web browser cache before logging in to web GUI.

Download the latest firmware (.epkg) from

<https://solar.schneider-electric.com/product/conext-gateway/>

<https://solar.schneider-electric.com/product/insighthome-and-insightfacility-edge-devices/>

Features

Summary of features

- Support for AC1 Generator
- Support WATTNODE CT3 setup to monitor AC coupled solar automatically
- Support for AC coupled power flow displayed on dashboard via WATTNODE meter
- Add UI for XW Pro AC Output Voltage Calibration
- Support closed loop battery configuration pass through to MPPT
- Support to download HSM trace log file via web API
- Add battery temperature data on XW Pro status screen
- Support for operating without SD card
- Upgrade IoT Hub Agent to v3.1.8
- Support XW Pro 2.10 BN25

Summary of fixes provided:

- Fix for Modbus time registers returning fixed values
- Fix for value setting on "External Contactor"
- Fix for not being able to enable Grid support thru Insight Facility
- Fix for Aux Relay Time of Day Trigger not working issue
- Fix for Low Battery Cut out Warning Offset setting issue
- Fix for manual refresh causing XW parameters changes issue
- Fix for secondary XW Pro going back into grid forming when in standby mode
- Improvement for exported PDF file format
- Fix for TPM test failure issue

- Improvement for WATTNODE device status page
- Change IEC 61727-2014 grid code name to IEC 61727-2004

Summary of new supported batteries:

- DISCOVER AES 44-48-3000
- DISCOVER AES 42-48-6650
- FortressPowerEvaultMax 18_5
- DISCOVER HELIOS 46-48-1540
- DISCOVER ELEMENT 48-48-5120
- PYLONTECH UP5000
- PYLONTECH US5000
- PYLONTECH PELIO
- HOMEGRID MQ_1
- HOMEGRID MQ_2
- HOMEGRID MQ_3
- HOMEGRID MQ_4
- HOMEGRID MQ_5
- HOMEGRID MQ_6
- HOMEGRID MQ_7
- HOMEGRID MQ_8
- HOMEGRID COMPACT
- EG4-LifePower4
- EG4-LL
- DEKA_DURATION_DD5300

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI
- The gateway does not have a web server trusted root certificate
- PDF Generation does not work correctly in Internet Explorer
- Temperature will not be shown in Battery Summary page if only MPPT device installed BTS (Battery Temperature Sensor).
- Upgrade from old version to v1.18 may cause the BMS setup status change from “successful” to “modified”, re-apply it, or leave it alone.
- After changing or applying BMS setup, refreshing configuration is required to make the UI configuration match device value.
- AC coupled power flow on InsightCloud & InsightMobile will be coming soon.
- For XW+, upgrade Gateway firmware to v1.18 is not recommended

Version: v1.17 Build 079 [23 Feb 2023]

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Features

Summary of features

- Support for AS4777.2 2020
- Support for HECO SRD 2.0
- Support IEEE2030.5 certificates
- Support XW Pro AC Output Voltage calibration
- Change password length limitation to 20 characters
- Support programmable serial number for XW Pro device
- Provide "Low Battery Cut Out Warning Offset" setting
- List grid code region settings in alphabetic order
- Add event log when "reset to factory" command is received
- Support XW Pro new bootloader
- Display the Average and Max value of 3 phases for the Zero export control
- Support fast discharge command for SunSpec 20001 model

Summary of fixes provided:

- Corrected Q(P) Gateway User Interface
- Fixed HVMPPT custom battery setting missing issue
- Prevent AC2 from setting to GRID
- Fixed connectivity status issue when using static IP
- Fixed AGS SoC trigger issue
- Fixed a Remote Code Execution vulnerability in Gateway

Summary of supported batteries:

- BYD LVS 4
- BYD LVS 8
- BYD LVS 12
- BYD LVS 16
- BYD LVS 20

- BYD LVS 24
- BYD LVL 15 4
- BYD LVS 2x 15 4
- Pylontech US2000
- Pylontech US3000
- Pylontech 3xForce L1
- Pylontech 4xForce L1
- Pylontech 5xForce L1
- Pylontech 6xForce L1
- Pylontech 7xForce L1
- Pylontech 3xForce L2
- Pylontech 4xForce L2
- KiloVault 7.5
- Fortress eFlex 5.4
- Fortress eVault 18.5
- Blue Ion 8
- Blue Ion 12
- Blue Ion 16

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI
- The gateway does not have a web server trusted root certificate
- PDF Generation does not work correctly in Internet Explorer
- Temperature will not be shown in Battery Summary page if only MPPT device installed BTS (Battery Temperature Sensor).
- For XW+, upgrade Gateway firmware to v1.17 is not recommended
- It is recommended to upgrade Gateway firmware v1.17 along with XW Pro 6848 v2.04 and XW Pro 8548 v2.06

Version: v1.16 Build 004 [17 Feb 2022]

Please clear your web browser cache before logging in to web GUI.

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<https://solar.schneider-electric.com/product/insighthome-and-insightfacility-edge-devices/>

Features

Summary of features

- Support for built-in XW Pro Grid Codes
- Added checks to assure all XW firmware versions are the same in a multi-unit setup, before allowing a gridcode change
- Added ability to simultaneously reboot all XW Pro units
- Added Export-Only DC Coupled Solar mode in preparation for power control certification
- Prevent AC1 and AC2 from having the same Association setting
- HVMPPT80 and HVMPPT100 firmware upgrades are handled separately

Summary of fixes provided:

- Resolved issue where some devices were missing from the Devices tab
- Check XW Associations are not duplicated before setting them
- Better reporting of the XW firmware upgrade status
- Fixes to calculation of BMS charging power
- Improved handling of BMS battery association between reboots
- Fixed intermittent XW Pro inverter faults
- Fixed bug where XW Pro frequency shifts when changing the battery's max charge rate

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI
- The gateway does not have a web server trusted root certificate
- PDF Generation does not work correctly in Internet Explorer
- Temperature will not be shown in Battery Summary page if only MPPT device installed BTS (Battery Temperature Sensor).

Version: v1.15 Build 17 [19th Oct 2021]

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Features

Summary of features

- Updated UI icons for Power Flow: Battery, Generator, Solar
- Improvements for BMS dashboard page
- Add “Generator Import Active Power Limit” on XW pro configuration UI
- Added new registers in SunSpec Modbus custom model mapping
- Added PM8000 config support

Summary of fixes provided:

- Fixed Power Flow UI for Guest user
- Fixed battery comparison graph for Guest and User login
- Fixed gateway accumulated energy aggregation calculation

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted.
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.14 Build 488 [17th Sept 2021]

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<https://solar.schneider-electric.com/product/insighthome-and-insightfacility-edge-devices/>

Summary of fixes provided:

- Fix for split-phase CSW dashboard power flow.

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted.

- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer
- Some of the InsightLocal Dashboards (Battery Summary, Power Flow) do not display accurate data, to User and Guest login.

Version: v1.14 Build 485 [20th Aug 2021]

Please clear your web browser cache before login to web GUI.

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<https://solar.schneider-electric.com/product/conext-gateway/>
<https://solar.schneider-electric.com/product/insighthome-and-insightfacility-edge-devices/>

Features

Summary of features

- Supported Spain export limiting requirements for CL33/50
- Fast dashboard data refresh for InsightCloud
- Web UI to support External Li-ion Battery selection
- Li-ion Battery configuration support for Pylontech batteries US2000 and US3000
- Li-ion Battery configuration support for BYD LVL and LVS.

Summary of fixes provided:

- Fix for Insight Home and PylonTech BMS Communication issue.
- Fix for incorrect BMS state information
- Fix for negative temperature value in external BMS
- Added total power, energy exported/imported for Wattnode meter for InsightCloud
- Fix for PM8000 device detection.
- CL30 dashboard power flow issue fix.
- Fix for Modbus Port-B device detection issue.

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted.
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.

- The gateway does not have a web server trusted root certificate.
 - PDF Generation does not work correctly in Internet Explorer
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Version: v1.12 Build 450 [20 Apr 2021]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Support XWPro v1.12
 - Changed AI Step parameter for EN50549 grid code

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted.
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.11 Build 437 [19 Feb 2021]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Improved grid code settings CRC
 - Support XWPro v1.10, v1.11
 - Initial support for EN50549 grid code
- Summary of fixes provided:
 - Prevent F50 (SOC Low) and F71 (battery overcurrent) faults on startup of XW Pro when using Li-ion Battery with Battery Management System.

Known Limitations

- Analog and Digital I/O is not supported
- After downgrading an XW device, the gateway must be restarted.
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.10 Build 433 [05 Feb 2021]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Added Grid and Generator time delayed disconnects
 - Universal firmware image supports Conext Gateway, InsightHome, and InsightFacility.
 - User Interface tool tips for device configuration
 - User Interface improvements for network and cloud connectivity
 - Firmware validation checking during device firmware upgrade prevents upgrade of invalid firmware.
 - Added time checking against browser/PC reference time to ensure gateway time is set correctly.
 - Added network connectivity monitor
 - Add support for NYSEG and ISO-NE grid codes
 - Add Grid Code Checksums
 - Added hysteresis values for AC Disconnect settings
 - Increased maximum password length to 20 characters
- Summary of fixes provided:
 - Fix problem preventing user login to the WebUI in some cases
 - Fix UI refresh issues when changing battery type
 - Fix loss of cloud connectivity credentials in some instances

Known Limitations

- Analog I/O is not supported
- After downgrading an XW device, the gateway must be restarted.
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.09 Build 418 [16 Sep 2020]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Support 120V Grid-Codes
 - Rule21-2018 120V
 - IEEE1547-2003 120V
 - IEEE1547-2003 120V 50Hz
 - PREPA-2017 120V
 - HECO Rule No. 14 - 2018 120V
 - HECO Rule No.14 - 2018 Molokai and Lanai 120V
 - IEEE 1547a-2014
 - IEEE 1547a-2014 120V
 - Add support for CAN BMS to Insight Home
- Summary of fixes provided:
 - Cloud Data Management improvements
 - Cloud User Authentication improvements

Known Limitations

- EN50549 Grid Code selection is not functional
- Analog and Digital I/O is not supported
- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- Conext™ Gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.08 Build 415 [24 Jul 2020]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - InsightLocal Re-branding
 - Support for InsightHome hardware
- Summary of fixes provided:
 - Slow operation after upgrade to v1.07
 - Missing battery chart data

Known Limitations

- Upgrading from v1.07 and earlier to v1.08 and later will cause the cloud to be disabled, requiring the user to re-enable the cloud via the Web UI.
- The button hardware for custom operation is not user configurable.
- InsightHome BMS CAN port only supports extended CAN frames
- Analog and Digital I/O is not supported
- Conext™ Gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.07 Build 414 [23 Jun 2020]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Support for Schneider Modbus BMS protocol
 - Support for AS.4777-2015 Australia/New Zealand Grid Code
 - Moved Grid Disconnect/Reconnect settings into grid codes UI section
 - System Event Reporting
 - System Health Status
 - System Level Regional Grid Code selection
 - Maps IEEE2030 Enter Service Default DER controls to XW Pro
 - Allow firmware upgrade of Xanbus devices in bootloader mode.
- Summary of fixes provided:
 - Improved cloud remote configuration interface
 - Fix missing MPPT device instance configuration
 - Fix WattNode power meter configuration registers
 - Reduced chart data loss due to unscheduled power loss

Known Limitations

- The button hardware for custom operation is not user configurable.
- Analog and Digital I/O is not supported
- Conext™ Gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.06 Build 406 [13 Feb 2020]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Zero sell support for XW Pro inverter/chargers
 - Continental Watt-Node meter support for Zero Sell operation
 - Support for HECO and HECO-ML grid codes for Hawaii
 - Optimized bandwidth for cloud data transmission
 - Added Modbus reserved registers to support larger block reads
 - Allowed configurable Wi-Fi Access Point IP address to prevent conflict with other networks.

Known Limitations

- The button hardware for custom operation is not user configurable.
- Some charts may have incomplete data if Conext™ Gateway is restarted.
- Conext™ Gateway does not have a web server trusted root certificate.
- PDF Generation does not work correctly in Internet Explorer

Version: v1.05 Build 403 [10 Dec 2019]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Wi-Fi Station mode allows Conext™ Gateway to connect to a Wi-Fi Local Area Network (WPA2-PSK only)
 - Modbus TCP Maps (SunSpec Maps: 1, 102, 121, 123, 124, 802)
 - Modbus TCP Maps (Modbus maps similar to Conext™ Combox)
 - IEEE2030.5 Smart Energy Protocol Application Profile (Beta – Contact Schneider Electric to enable this feature)
 - Supports external power control mode for XW Pro devices (via Modbus or IEEE2030.5)
 - Stronger password enforcement and user management for improved security
 - Updated Cloud support for Conext™ Insight 2
- Summary of fixes provided:
 - Improved performance for configuration refresh
 - Fixed issue with reading Device Advanced Feature settings on startup
 - Minor Web User Interface fixes

Known Limitations

- The button hardware for custom operation is not user configurable.
- Some charts may have incomplete data if Conext™ Gateway is restarted.
- Conext™ Gateway does not have a web server trusted root certificate.
- Conext™ Gateway may show low power levels reported from attached devices when no power is flowing.

Version: v1.04 Build 245 [27 May 2019]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneider-electric.com/product/conext-gateway/>

Features

- Summary of features
 - Support for CL60 inverter
 - Support for State of Charge configuration settings on XW devices (feature not yet available on XW devices at time of this release)
- Summary of fixed provided:
 - Improved performance for configuration refresh
 - Fixed issue with reading Device Advanced Feature settings on startup
 - Minor Web User Interface fixes

Known Limitations

See below

Version: v1.03 Build 198 [25 March 2019]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneiderelectric.com/product/conext-gateway/>

Features

- Summary of features:
 - AC Coupling of CL25/CL36 inverters
 - Multi-cluster system with CL25/CL36 inverters
 - Supports PM3255 power meter
 - Supports PM8xx power meter
 - Xanbus configuration refresh progress bar implemented
 - Support for XW Pro Grid Codes.
- Summary of fixes provided:
 - Fixed a cloud connection issue
 - Xanbus configuration refresh mechanism fixed on the UI

Known Limitations

- The button hardware for custom operation is not user configurable.
- Some charts may have incomplete data if Conext™ Gateway is restarted.
- Conext™ Gateway does not have a web server trusted root certificate.
- Conext™ Gateway may show low power levels reported from attached devices when no power is flowing.

PDF Generation does not work correctly in Internet Explorer

Features not yet supported

- Analog and Digital Input and Outputs
- Wi-Fi Station Mode (Local Area Network connection via Wi-Fi)
- External control of devices via Modbus (Modbus Slave)
- Custom Data Logging

Version: v1.02 Build 135 [23 January 2019]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneiderelectric.com/product/conext-gateway/>

Features

- This is the first general public release of Conext™ Gateway hardware and firmware.
- Summary of features:
 - Supported Xanbus devices – Conext™ XW+, Conext™ XW Pro, Conext™ SW, Conext™ MPPT 60 150, Conext™ MPPT 80 600, Conext™ AGS, Conext™ Battery Monitor, Conext™ SCP
 - Local system monitoring using Local Web User Interface.
 - Wi-Fi Access Point (AP) functionality – for direct connection to Conext™ Gateway device.
 - Connection to Conext™ Insight 2 Remote Monitoring Service

Known Limitations

- The button hardware for custom operation is not user configurable.
- Some charts may have incomplete data if Conext™ Gateway is restarted.
- Conext™ Gateway must be restarted if the network connection is changed.
- Conext™ Gateway does not have a web server trusted root certificate.
- Conext™ Gateway may show low power levels reported from attached devices when no power is flowing.
- PDF Generation does not work correctly in Internet Explorer

Features not yet supported

- Analog and Digital Input and Outputs
- Wi-Fi Station Mode (Local Area Network connection via Wi-Fi)
- External control of devices via Modbus (Modbus Slave)
- Custom Data Logging
- AC Coupling of inverters using Modbus (e.g. Conext™ CL-25, Conext™ CL-60)

Version: v1.01 Build 99 [19 December 2018]

Please clear your web browser cache before login to web GUI.

Download the latest firmware (.epkg) from <https://solar.schneiderelectric.com/product/conext-gateway/>

Features

- This is the first customer release of Conext™ Gateway hardware and firmware.
- Summary of features:
 - Supported Xanbus devices – Conext™ XW+, Conext™ XW Pro, Conext™ SW, Conext™ MPPT 60 150, Conext™ MPPT 80 600, Conext™ AGS, Conext™ Battery Monitor, Conext™ SCP
 - Local system monitoring using Local Web User Interface.
 - Wi-Fi Access Point (AP) functionality – for direct connection to Conext™ Gateway device.

Known Limitations

- Cloud connection is not available (Cloud will be available in v1.02).
- The button hardware for custom operation is not user configurable at this time.
- Does not support connection to customer LAN via wireless router a.k.a. Wi-Fi – Station mode.
- No support for Analog and Digital Input and Outputs.
- Dashboard and Power Flow may not be reliable when Xanbus devices are in standby state or when AC Load output is in no load condition.
- Some charts may have incomplete data if Conext™ Gateway is restarted.

Compatibility

- Conext™ Gateway is next generation to Conext™ ComBox. It supports all Xanbus devices same as Conext™ ComBox.