

What's new in ION8650 firmware v430

This document outlines the new and updated features in firmware version 430 (V4.30.0) for the PowerLogic™ ION8650 meters.

Additional information and resources

Visit www.schneider-electric.com to download the firmware upgrade files and related resources.

- The firmware upgrade files.
- The latest template files.
- The latest version of ION Setup to support the new features (You can also select **Help > Check for Updates** from within ION Setup).
- The latest user manual, datasheets and installation sheets.

IEC 61000-4-30 Edition 3 support

This firmware version supports IEC 61000 4-30 Edition 3.

The IEC 61000-4-30 (4-30) standard defines methods for measurement and interpretation of power quality parameters in 50/60 Hz AC power supply systems. The standard describes measurement methods for relevant parameters to obtain reliable, repeatable and comparable results using any compliant meter. New items are now required in 4-30 Edition 3 and have been implemented on this meter:

- **Rapid Voltage Changes (RVC)** – RVC is a quick transition in RMS voltage between two steady-state conditions, during which the voltage does not exceed the sag/swell thresholds. The Sag/Swell module can now detect and measure RVC and record the event in the meter's Event Log.
- **Current Measurements** – Current measurements are useful as a supplement to voltage measurements, especially when trying to determine the causes of events such as voltage magnitude change, interruption or imbalance. These current measurements include:
 - Magnitudes
 - Harmonics and Interharmonics
 - Unbalances

Extended DLMS support in this firmware

Your meter's latest firmware now has extended DLMS support.

You can now configure the meter to export the records from any of the meter's Data Recorder modules via Ethernet communications to your DLMS client software.

As part of the extended support, you can assign a Profile Generic OBIS code to a set of values and associate register attribute OBIS codes to the records being exported.

The default DLMS functionality of the meter has not changed.

Additional DLMS information

For more information on the DLMS protocol implementation, including instructions on configuring DLMS data log exports, see the *DLMS/COSEM and ION technology* technical note, available from www.schneider-electric.com.

Additional cellular modem functionality

The meter now has a Verizon LTE cell modem option and new cell modem features.

The LTE cell modem option is in addition to the existing CDMA cell modem option.

Both cell modem options are available on all models of the socket meter.

NOTE: The cell modem option is not supported on the switchboard meter.

NOTE: Cell modem functionality requires the appropriate cell modem hardware.

New Features

- Configure the cell modem to activate when the account with your cellular carrier is set up for roaming.
- Programmable APN.
- Time sync over cell modem for ION and other protocols.

For more information, see the *PowerLogic™ ION8650 cellular modem option* document, available for download from the website.