

## What's new in PowerLogic ION8650 firmware V4.31.1

This document outlines the new and updated features in firmware version V4.31.1 for the PowerLogic™ ION8650 meters.

### Additional information and resources

Visit [www.schneider-electric.com](http://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.

### Outage notification

This firmware supports Ethernet outage notification.

**NOTE:** Outage notification requires meter I/O option D.

You can configure a device with an outage notification card to send messages to your outage notification server for power loss events.

Meters with an outage card can be configured to operate as part of an outage notification system. When the meter loses power, it sends an initial Ethernet outage notification to the outage server, and continues to periodically send the outage message for as long as the meter has reserves of power.

Your meter must be connected to a standard HTTP or HTTPS outage server via Ethernet. Only one outage notification can be configured on your meter; you cannot send separate messages to different outage notification servers.

For more information, see the *Outage notifications on the PowerLogic ION8650* option document, available from the website.

### New Ethernet push notification

You can now configure your meter's Alert module to send a message to your outage notification server using JSON (JavaScript Object Notation).

**NOTE:** Your meter does not require the Outage Notification option card to have this functionality.

For more information on the Alert module, see the latest *ION Reference*, available from the website.

For more information on Ethernet notification, see the *Outage notifications on the PowerLogic ION8650* option document, available from the website.

## Domain name resolution (DNS) support

Your meter now supports DNS resolution.

DNS resolution allows you to enter a "Name" (e.g., www.companyname.com) rather than an IP address (e.g., 115.221.255.102).

For more information on configuring this new functionality, see the Communications module in the latest version of the *ION Reference*, available from the website.

## New Transient absolute detection mode

Your meter now supports two transient detection modes, using the new Detection Mode register.

You can now configure your meter's Transient module to detect transients using an absolute threshold. This is in addition to the existing predicted waveshape threshold method.

For more information on the Transient module, see the latest *ION Reference*, available from the website.

## New DNP inactivity timeout

Your meter now supports configurable DNP timeouts, using the new *Inactivity Timeout* register.

This register defines how long the meter waits before timing out after no DNP traffic is detected on the port.

**NOTE:** This timeout only applies if the communications port is set to ETHERNET.

For more information on the DNP Slave Options module, see the latest *ION Reference*, available from the website.

## 5-digit DNP3 unit ID support

Your meter now supports 5-digit unit IDs when accessing the meter through the RS-485 or RS-232 serial port using DNP3 serial protocol test equipment software.

## General improvements

All firmware updates typically contain continuous file system improvements.

- Firmware version V4.31.1 contains NOR Flash memory allocation improvements

Corrective measures have been implemented to address and resolve IRIG-B time synchronization issues that might cause meter resets.