Outage notifications on the PowerLogic™ ION8650

This document describes how to configure the Ethernet outage notification option on your meter.

What's in This Document

Outage notification overview

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 it 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.

Additional information

You can access additional information from www.schneider-electric.com.

- *ION Reference*: detailed information about ION modules, including the Alert module used for outage notification.
- *ION Alerts technical note*: instructions on how to configure standard alerts in your ION meter.
- The latest version of ION Setup to support the new features.

Outage notification card

Your meter requires an outage notification card in order to make Ethernet outage notifications.

The outage notification card is a hardware option available on ION8650 socket and switchboard form factor meters. It uses the same physical slot as the I/O option board, which means that you cannot have both optional I/O and outage notification on the same meter. The meter must also have an Ethernet communications option connected to an Ethernet network that is capable of communicating with the Ethernet outage server; you do not need to have a direct connection from the meter to the server.

The outage notification card communicates over the meter's existing Ethernet connection only when the meter is powered down. If the meter is powered, standard Ethernet communications use the meter's Ethernet connection.

Refer to the catalog, available from www.schneider-electric.com for more information about the hardware options and feature sets supported by your meter.

Outage notification firmware

Your meter's firmware has been updated to provide outage notification Ethernet support.

You must create and configure an Alert module for outage notification using the advanced mode of ION Setup. Only one Alert module can be configured for Ethernet outage notification.

> **NOTE:** See the ION Setup online help for more information about using advanced mode.

Configuring an ION Alert module for outage notification

You can configure a new or existing ION Alert module to provide Ethernet outage notification.

Your meter must be equipped with an outage notification card, have the Ethernet communications option, and be connected to an Ethernet network that is capable of communicating with your Ethernet outage server.

You need to access the ION modules on your meter, which is an advanced procedure that requires in-depth knowledge of your meter, its underlying architecture, and the system in which it is installed. See the *ION Reference*, available from www.schneider-electric.com, for more information about the Alert module, other modules, and ION architecture.

1. Start ION Setup.

2. Connect to your meter in advanced mode.

3. You can modify an existing Alert module for outage notification over Ethernet, or create a new Alert module by right-clicking in the right-hand pane and selecting **Insert Module**.

   The new Alert module has a red "X" overtop to indicate that the module is offline (not functioning).

4. Double-click the Alert module.

   The module's parameter configuration viewer/editor is displayed.

5. Select the **Inputs** tab and configure the following registers:
   - *Source1-4*: Select the *Source* and click **Edit** to connect to a measured value you want to include in your outage notification's message.
   - *Trigger*: Ensure that the *Trigger* input is not connected. If it is connected, delete the connection.

6. Select the **Setup Registers** tab and configure the registers as follows:

Register	Setting
Message	Enter the message that the meter sends to your outage notification server. **NOTE:** See the Sample Alert module message for an example including *Source* values.
Destination	Enter the standard http full uniform resource identifier (URI) of your outage notification server. Example: http://10.168.66.123/api/json/outage/
Type	HTTP POST **NOTE:** This selection works for both HTTP and HTTPS outage servers.
Com Port	ETHERNET OUTAGE NOTIFICATION
Retry Time	Enter the delay (in seconds) before sending the first outage notification. This value also determines the frequency of subsequent notifications. *Retry Time* can range from 10 to 120 seconds. This delay can be configured to help minimize false outage notifications.

7. Click **Send** to configure the Alert module on your meter.

Sample Alert module message

This is an example of an Alert module message for a message containing the meter's UTC time in UNIX format and the voltage values for phase A and B (connected to *Source* inputs 1 and 2).

Alert module message	Email
MeterTime: %T, Measured: %N1: %V1, %N2: %V2	MeterTime: 1502822277, Measured: Vln a: 0, Vln b: 0

Configuration validation

To validate your outage notification configuration, remove power from your meter for a duration longer than the *Retry Time* in order to send a notification to the outage server.

Check your outage server to see if the notification was received.

Event Log

During meter start up, the meter's event log captures if the outage notification card is present and functioning.