

# Multilin 8 Series Protection and Control Relay Platform

## Firmware Version 2.61

### Release Notes

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## Overview

### Summary

GE Grid Solutions releases 8 Series firmware version 2.61 for Multilin 8 Series Protection Relays.

Highlights of this release include the following:

#### **Multilin 8 Series firmware version 2.61**

- **Platform**
  - Data attributes on IEC 61850 resolved
  - Synchcheck's setting sequence modified
  - Scaling corrected on Single Line Diagram
  - Arc Flash Self-test target message correction
  - TCP/IP port 4 LLA reported link errors resolved
  - Fault Locator Logical Node attributes refreshed
  - IEC 61850 GOOSE Configuration Revision resolved
  - Applied Security patch on VxWorks
  
- **869**
  - Thermal Model dependencies enhanced
  - Learned Data Recorder and Power Quality Event files corrected
  - Single Phase Trip Logic enhanced
  - Field Application Relay (FAR) Output Contact enhancement
  
- **850**
  - LEA Sensor Magnitude Correction factors enhanced
  - LEA Phase to Phase RMS metering accuracy resolved
  
- **850R**
  - Integrated Recloser and Switch Controller
  - Auto Recloser
  - Overhead Switch sectionalizer
  - Overhead Switch setup
  - Overhead Control

- Overhead Switch maintenance
- Local Control
- Power Loss
- Pseudo Voltage
- Power Sensing
- 1/3 Pole Recloser
- Battery management system
- Capacitor Charging system
- Coil Supervision
- Recloser Maintenance /Monitoring
- Breaker Failure
- Single Line Diagram

Release Date: **Feb 20, 2020**

Multilin 8 Series firmware versions 1.2x and below cannot be upgraded to firmware version 2.61. Please contact us to upgrade the product.

Upgrading the firmware to version 2.61 by downloading the file directly from our website:

[850 Feeder Protection System](#)

The latest EnerVista 8 Series Setup software is available at the same location. The software supports Windows 7, 8.1, and 10.

**Please contact your local Multilin sales representative or Multilin Customer Service Department for any questions regarding this upgrade.**

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## Release details

In the following release descriptions, a revision category letter is placed to the left of the description. See the Appendix at the end of this document for a description of the categories displayed.

### Firmware version 2.61

#### Platform

#### **C** Data attributes on IEC 61850 resolved

Data attribute fields for HotRtdSTMP1, RemHotRtdSTMP1, ArcFlsSARC1, DigCntFCNTx, LEDsIHMI, including TotVar and TotVA on IEC 61850 logical node PwrMMXU, are resolved.

#### **D** Synchcheck's setting sequence updated

Synchcheck Bypass setting on HMI display moved to come after Dead Line Volts Max.

#### **M** Scaling corrected on Single Line Diagram

RMD Analog scaling resolved on the Single Line Diagram (SLD). The RMD Analog Screen was showing correct values.

**D Arc Flash Self-test target message correction**

Arc Flash Self-test target message is corrected to be consistent with the status of the sensors.

**C TCP/IP port 4 LLA reported link errors resolved**

Resolved port 4 link loss alert (LLA) that was not reporting Link Error Primary or Link Error Secondary errors when port 5 was defaulted to either 127.0.0.1 or 0.0.0.0.

**C Fault Locator Logical Node attributes refreshed**

Corrected refresh functionality on Fault Locator Logical Node attributes (RFLO).

**C IEC 61850 GOOSE Configuration Revision resolved**

The GOOSE configuration file was one revision ahead of the CID file. This is resolved to match.

**E Applied Security patch on VxWorks**

Applied a Wind River VxWorks security patch.

**869****D Thermal Model dependencies enhanced**

IEC Curve Time Constant 1 and 2 are masked when the Overload Curve selected is not an IEC Curve.

**R Learned Data Recorder and Power Quality Event files corrected**

LDR and PQE files were unintentionally removed from firmware version 2.43. As of version 2.45, they are restored.

**E Single Phasing Trip Logic enhanced**

Single phasing trip logic is enhanced to track on RMS Current Magnitude Values to improve element accuracy.

**E Field Application Relay (FAR) Output Contact enhancement**

FAR contact output can now be set to Latching mode in addition to Self-Resetting mode.

**850****M LEA Sensor Magnitude Correction factors enhanced**

LEA Sensor Magnitude Correction settings have been extended to all harmonics up to 25th, as well as to the corresponding RMS values.

**M LEA Phase to Phase RMS metering accuracy resolved**

LEA Ph-Ph Voltage scaling resolved when the Magnitude Correction is applied to RMS values.

**850R****N Integrated Recloser and Switch Controller**

850R now supports Recloser and Switch Controller functionality, with the following features available:

- Integrated Recloser and Switch Controller
- Auto Recloser
- Overhead Switch sectionalizer
- Overhead Switch setup
- Overhead Control
- Overhead Switch maintenance
- Local Control
- Power Loss
- Pseudo Voltage
- Power Sensing
- 1/3 Pole Recloser
- Battery management system
- Capacitor Charging system
- Coil Supervision
- Recloser Maintenance /Monitoring
- Breaker Failure
- Single Line Diagram

## Appendix

### Change categories

This document uses the following categories to classify the changes.

**Table 1: Revision Categories**

Code	Category	Comments
<b>N</b>	New feature	A separate feature added to the relay. Changes to existing features even if they significantly expand the functionality are not in this category
<b>G</b>	Change	A neutral change that does not bring any new value and is not correcting any known problem
<b>E</b>	Enhancement	Modification of an existing feature bringing extra value to the application
<b>D</b>	Changed, incomplete or false faceplate indications	Changes to, or problems with text messages, LEDs and user pushbuttons
<b>R</b>	Changed, incomplete or false relay records	Changes to, or problems with relay records (oscillography, demand, fault reports, etc.)
<b>C</b>	Protocols and communications	Changes to, or problems with protocols or communication features
<b>M</b>	Metering	Metering out of specification or other metering problems
<b>P</b>	Protection out of specification	Protection operates correctly but does not meet published specifications (example: delayed trip)
<b>U</b>	Unavailability of protection	Protection not available in a self-demonstrating way so that corrective actions could be taken immediately
<b>H</b>	Hidden failure to trip	Protection may not operate when it should
<b>F</b>	False trip	Protection may operate when it should not
<b>B</b>	Unexpected restart	Relay restarts unexpectedly

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## For further assistance

For product support, contact the information and call center as follows:

GE Grid Solutions

650 Markland Street

Markham, Ontario

Canada L6C 0M1

Worldwide telephone: +1 905 927 7070

Europe/Middle East/Africa telephone: +34 94 485 88 54

North America toll-free: 1 800 547 8629

Fax: +1 905 927 5098

Worldwide e-mail: [multilin.tech@ge.com](mailto:multilin.tech@ge.com)

Europe e-mail: [multilin.tech.euro@ge.com](mailto:multilin.tech.euro@ge.com)

Website: <http://www.gegridsolutions.com/multilin/>