GE VERNOVA

Firmware Release Notes

Multilin 650 Family

Version 9.11

Publication Reference: GER-4989

Publication Date: February 3, 2025

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1   Summary

GE Grid Solutions issues the Multilin 650 Family Firmware version 9.11 and EnerVista 650 Setup software 9.11. The firmware is specific to some 650 Family products and does not affect other devices.

The 9.11 firmware and 9.11 software version release for the 650 platform introduces software and firmware improvements that only affect C650 and F650 devices. When using firmware version 9.11, EnerVista 650 setup 9.11 or above must be used.

Highlights of this release include:

1.1   Date of release

- Firmware 9.11: February 4 2025

1.2   Firmware 9.11

Bay Controller & Monitoring System/Feeder Protection Relay - Common Platform functions - F650, C650
- Fixed an issue impacting line diagram default drawing in models with Standard Graphical HMI
- Fixed an issue impacting file conversion feature in Enervista Setup

1.3   EnerVista 650 Setup software 9.11

- Compatibility with 9.11 Firmware version
- Affected products: C650 and F650
- Firmware Release Date: Feb 4th, 2025
- EnerVista Setup Release Date: Feb 4th, 2025

New 650 firmware and EnerVista Setup software can be downloaded from the links below, based on device type.
F650: https://www.gegridsolutions.com/app/ViewFiles.aspx?prod=f650&type=7
C650: https://www.gegridsolutions.com/app/ViewFiles.aspx?prod=c650&type=7

> **NOTE**
> For existing 650 devices installed with firmware version below 7.0x, you must obtain a new relay to benefit from the enhancements described in this release note. If the new features and enhancements are not needed, no upgrade of the relays is required.
>
> Please contact your local Multilin sales representative or Multilin Customer Service Department (CST) for any questions regarding this upgrade.

2 Release Details

2.1 Multilin 650 Family - Firmware version 9.11 Release Details

2.1.1 Fixed an issue impacting line diagram default drawing in models with Standard Graphical HMI

Category: D

Products: F650, C650

Impacted firmware: 9.10

Corrected firmware: 9.11

Workaround: N/A

Description: Models with Order Code option "M" (standard graphical HMI), when loaded default configuration, a painted square is drawn on top of the line diagram, which shouldn't be.This does not affect other HMI Order Code options and has no impact in device's functionality

GE tracking number: FWDILEG-10

2.1.2 Fixed some issues impacting file conversion feature in Enervista Setup

Category: R

Products: F650, C650

Impacted software: 9.00 to 9.10

Corrected software: 9.11

Workaround: Yes. To manually modify settings files

Description: A C650 v9.00 settings file and F650 v5.01 to v7.50 settings files, are not correctly converted in Enervista Setup v9.00 and v9.10 and, therefore, can not be uploaded to the device

GE tracking number: FWDILEG-12 (LSN-38033), FWDILEG-4 (LSN-35579)

EnerVista 650 Setup - Software version 9.10 Release Details

2.1.3 Compatibility implemented with Firmware 9.11 version

Category: G

Products: EnerVista 650 Setup

Impacted software: 9.10

Corrected software: 9.11

Workaround: N/A

Description: Updated database and configuration files to ensure compatibility with 9.11 Firmware version.

GE tracking number: N/A

3   Upgrade path

3.1.1   Firmware Compatibility

The 9.00 firmware is not compatible with firmware versions below 7.0x, or with any previous F650 CPU hardware, i.e. F650 with order code containing Rear Ethernet Communication Board option B, C, D or E. Existing B, C, D and E options still benefit from the previous CPU hardware. The released firmware version runs only on the new models with Rear Ethernet Communication Board options: G, H, J, K, L & M. The 9.00 firmware requires EnerVista 650 Setup software version 9.00 or higher. GE suggests using the latest version of the software.

Upgrading 650 devices installed with firmware versions below 7.0x requires replacement of the complete relay. New relays require choosing from the new [G, H, J, K, L or M] characters in the order code under the "Rear Ethernet Communication Board 2" option.

EnerVista 650 Setup software can convert settings files from an older version to the latest version. It also provides a tool to compare settings files from different versions, generating a Difference Report. This Difference Report identifies new settings and additional information to assist the user during the upgrade process.

3.1.2   Software Compatibility

The minimum operative system requirements for the EnerVista 650 Setup software are as follows:

- Windows 7
- Windows 8
- Windows 10

4 Appendix

4.1 Change categories

This document uses the following categories to classify the changes.

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

4.2 For Further Assistance

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

GE Grid Solutions

650 Markland Street

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Canada L6C 0M1

Worldwide telephone: +1 905 927 7070

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