



GE VERNOVA

Firmware Release Notes

Multilin 8 Series

Version 3.03

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1 Summary

GE Vernova Grid Solutions releases the 8 Series Firmware and Software Version 3.03 for the Multilin 8 Series Protection Relays. Highlights of this release include the following:

Firmware Version 3.01

Platform

- IEC61850 - MMS Dataset updated to use UTC time
- IEC61850 - Enhanced buffered reports
- IEC61850 - Enhanced Report availability after disconnection
- Enhanced relays' ability to handle events storm
- Modbus User map
- Slot I/O Error self-test diagnostic message logic
- Annunciator Panel
- Single Line Diagram (SLD) objects

Firmware Version 3.02

Platform

- Output Relay Operation state can be changed in Observer mode

845

- Transformer energization records

850

- 750-850 Compatibility mode – System Frequency format corrected

869

- Unexpected Reboot on products with Electrical Signature Analysis (ESA) option

Firmware Version 3.03

Platform

- Security patch applied on VxWorks

869

- Thermal Model incorrectly calculating Thermal Capacity
- Thermal Inhibit
- Reduced Voltage Starting

Release Date: March 31, 2025

- Multilin 8 Series firmware versions 1.2x and below cannot be upgraded to firmware version 1.3x and above. Please contact us to upgrade the product.
- Multilin 8 Series firmware versions 3.x and below cannot be upgraded to firmware version 4.x. Please contact us to upgrade the product.
- Upgrade the firmware to version 3.03 by downloading the file directly from GE Grid Automation 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, 10 and 11.
- Please contact your local Multilin sales representative or Multilin Customer Service Department for any questions regarding this upgrade.

2 **Firmware version 3.01**

Platform

- C IEC61850 - MMS Dataset updated to use UTC time**
Updated IEC61850 MMS Dataset to use UTC time stamp for MMS instead of local time.

- C IEC61850 - Enhanced buffered reports**
Enhanced relay's ability to handle very high event generation incidents, which were impacting relay's ability to publish IEC61850 buffered reports.

- C IEC61850 - Enhanced Report availability after disconnection**
Report enhancement to improve time it takes for the reports to be available after disconnection.

- R Enhanced relays' ability to handle events storm**
Enhanced relays' ability to handle events storm of more than 200 events in less than 6 msecs

- C Modbus User map**
Reading from unconfigured user map address will now return a zero value.

- C Slot I/O Error self-test diagnostic message logic**
Slot I/O error mechanism was changed to allow for self-recovery from transient events that disrupt communications between RTD and CPU modules. This enhancement works in conjunction with latest firmware revision v1.09 of the RTD module.

- D Annunciator Panel**
Annunciator logic corrected to activate when there is any trip or alarm.

- D Single Line Diagram (SLD) objects**
Relay will now ignore any SLD objects placed within Status Bar area of the screen.

3 **Firmware version 3.02**

Platform

C Output Relay Operation state can be changed in Observer mode

Removed the ability to change output relay Operation state (Failsafe, Non-Failsafe), when contact output Type is set to Latched, in Observer mode

845

R Transformer energization records

Corrected transformer energization records availability after power cycle to protection relay

850

C 750-850 Compatibility mode – System Frequency format corrected

Corrected the format code on 750 to 850 compatibility mode register for system frequency address 0x0314 Hex

869

B Unexpected Reboot on products with Electrical Signature Analysis (ESA) option

Record ID index register size was increased to 32 bits to remove the risk of unexpected reboot that may occur during a motor start

4 **Firmware version 3.03**

Platform

E Security patch applied on VxWorks

Wind River VxWorks source code updated to correct CVE-2019-12263.

869

P Thermal Model incorrectly calculating Thermal Capacity

Corrected a mistake in firmware which affected products using FlexCurve OL and Voltage Dependent (VD) functionality. Firmware incorrectly used TDM (Time Dial Multiplier) setting intended for Standard Motor curve instead of TDM for FlexCurve OL when the VD functionality was enabled.

P Thermal Inhibit

Corrected Thermal inhibit logic to release when the Thermal Lockout time was set to zero.

P Reduced Voltage Starting

Reduced Voltage Starting element's dropout voltage modified to correctly calculate the dropout level.

5 Appendix

Change categories.

This document uses the following categories to classify the changes.

Table 1: Revision Categories

Code	Category	Comments
N	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
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 (example: delayed trip)
U	Unavailability of protection	Protection not available in a self-demonstrating way so that corrective actions could 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

For product support, contact the contact centers as follows:

Region	E-mail	Telephone
Global Contact Centre	ga.support@gevernova.com	+44 1785 250070
Central and East Asia and Pacific	ga.supportCEAP@gevernova.com	+65 6749 0777
India	ga.supportIND@gevernova.com	N/A
Middle East, North Africa and Turkey	ga.supportMENAT@gevernova.com	+971 4 375 6950
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