

Multilink Firmware

Revision 5.5.0

GE Publication Number: GER-4744

Copyright © 2016 GE Multilin Inc.

Overview

Summary

GE Multilin regularly introduces firmware updates to address enhancements in certain functional areas.

This firmware is applicable to the ML2400, ML1600, ML1200 & ML800 switches only:

- **Released May 31st, 2016**

Release details

Caution: The Multilink switch must be running the software release 5.4.1 before upgrading to 5.5.0. This may require upgrading the switch to 5.4.1, then upgrading to 5.5.0.

The following notes describe the firmware changes and their impact. A revision category letter is placed to the left of the description. Refer to the Appendix at the end of this document for a description of the categories displayed.

- C Encryption of CRC in the firmware. The signature added to the firmware included the CRC field which could be easily deciphered, thereby making it possible to modify the decompiled version of the firmware and upload a new version to the device. The signature format has been changed and is encrypted such that it is no longer recoverable.

This firmware version addresses the vulnerability. Please reference GET-20042 Security Bulletin on Hard-Coded Credentials Vulnerability for further details.

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

The revision category letter is placed to the left of the change description.

GE Multilin technical support

GE Multilin contact information and call center for product support is shown below:

GE Multilin
650 Markland Street
Markham, Ontario
Canada L6C 0M1

Telephone: 905-294-6222 or 1-800-547-8629 (North America), +34 94 485 88 00 (Europe)
Fax: 905-201-2098 (North America), +34 94 485 88 45 (Europe)

E-mail: multilin.tech@ge.com
Home Page: <http://www.GEmultilin.com>