

# Multilink Firmware

## Revision 5.4.1

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## 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 31<sup>st</sup>, 2016**

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### Release details

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 Support for TLSv1.1 and TLSv1.2  
  
OpenSSL library has been upgraded to version 1.0.2a and support for higher versions of SSL has been added. By default, all the versions of SSL and TLS are enabled in order to support backward compatibility with older version of browsers. However, the user has the option to disable the older, less secure versions (SSLv2/SSLv3/TLS1.0), through CLI.
- C Fixed the session logout vulnerability where a user could log into the web using the key of a session which has already been logged out.
- C Fixed the Authentication bypass vulnerability where in using the key as string 'GoodKey', a user could open a web session without providing a username and password.

## 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:

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