



Logix5550 Controller

Cat. No. 1756-L1, -L1M1, -L1M2, -L1M3

Introduction

These release notes correspond to these firmware releases of the Logix5550 controller:

- major revision 5, minor revision 16 or later,
- major revision 4, minor revision 47 or later

Corrected Anomalies

This release corrects these potential safety issues:

Corrected Anomaly:	Description:
Forcing of an input value (major revision 4 only)	In major revision 4 firmware, if you forced an input connection (module or rack) and tried to modify the forcing of that input connection, the controller might stop updating the module or rack associated with that connection. In such cases, the indicator on the front controller remains solid green, falsely indicating that the connection is working. In actuality, the input data table image in the controller is not being updated.
FIFO instruction (major revision 4 and major revision 5)	Using the FIFO unload (FFU) instruction and specifying a length of one caused corruption of controller memory.
Motion axis control (all major revisions)	<p>A group overlap fault might occur when the coarse rate of the group is set to a value smaller than is required for the number of axis in the group. While the group overlap fault causes all axis controlled by the controller to stop, it is possible that the actual position, actual velocity, and average velocity values of an axis continue to change even though the actual axis itself is not moving. Under these conditions, uncontrolled and unpredictable motion and control may occur if this axis is produced or consumed by another controller or if an application program uses any of the actual position, actual velocity, or average velocity values elsewhere in its logic.</p> <p>The following revisions may exhibit this problem:</p> <ul style="list-style-type: none">• All revisions 1.x, 2.x, and 3.x; and,• All 4.x revisions prior to 4.47; and,• All 5.x revisions prior to 5.16 <p>For revisions 1.x, 2.x, and 3.x, the problem can only be corrected by updating to revision 4.47 or revision 5.16.</p>

Restrictions

- An interruption in power to a ControlLogix chassis might produce a non-recoverable fault in a 1756-M02AE analog/encoder servo module when power is restored. If this occurs:
 - The OK LED will be solid red and the module will be inoperative.
 - The connection to the Logix5550 controller will be faulted. If the connection is configured to produce a major fault when it fails, the Logix5550 controller will fault upon returning to Run mode.

To clear the fault of the servo module, cycle power to the chassis or remove and re-insert the servo module.

- For a rack-optimized connection to a 1756 or 1794 input module, if you force a slot status bit to 1, unexpected operation *may* occur. The rack image remains connected, but the module that is associated with the slot status bit responds as follows:
 - The module disconnects, faults, and stops being updated.
 - The Properties dialog box, connection tab, displays a “connection timed out” error (16#204).
- While online to a controller that is in the Remote Run mode, avoid moving a LBL instruction to a new location. Performing the following actions will cause a major fault when you test the edits:
 - moving a LBL to a different rung
 - entering an existing LBL on a new rung and deleting the rung that previously contained the LBL

To change the location of a LBL, make the edits either offline or in the Remote Program mode.

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