



Logix5550 Controller

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

Introduction

These release notes correspond to major revision 5, minor revision 13 or later, of the Logix5550 controller. Use this firmware release with RSLogix 5000 software release 2.51 or later.

Enhancements

This release includes these enhancements:

- ASCII serial port instructions, which let the controller send and receive ASCII characters through its serial port:

Instruction:	Mnemonic:
Test For Buffer Line	ABL
ASCII Chars in Buffer	ACB
ASCII Clear Buffer	ACL
ASCII Handshake Lines	AHL
ASCII Read	ARD
ASCII Read Line	ARL
ASCII Write Append	AWA
ASCII Write	AWT

Corrected Anomalies

This release corrects these anomalies:

When:	And:	This occurred:
A system contained more than ten physical (1756-M02AE) axes.	All axes registration events occurred at the same time (e.g., when the system used a multi-dropped registration input).	The Motion Axis Registration Arm instruction sometimes failed to complete.
In some situations, a controller was using unscheduled messages to communicate with a device.	_____	The controller continued to correctly execute its program, but communications would lock-up: <ul style="list-style-type: none"> • The controller would fail to communicate with devices using unscheduled messaging. • The programming software could not attach to the controller. • To re-establish communications, power had to be cycled.
Programming a Message instruction (MSG) that was performing a block-transfer write	A length of zero [0] was specified.	The instruction failed.
Sending a PLC-2, PLC-3, PLC-5, or SLC message	Either of these communication methods was used: <ul style="list-style-type: none"> • CIP • CIP with Source ID 	The controller occasionally experienced a failure, ranging from faulty data values to a non-recoverable fault.
Sending data to an HMI	_____	The HMI sometimes received inconsistent data.

Restrictions

- An interruption in power to a ControlLogix chassis *may* 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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**Rockwell
Automation**

Publication 1756-RN004D-EN-P - April 2000

PN 957308-08

Supersedes Publication 1756-RN004B-EN-P - March 2000

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