

Firmware 15.52 Release Notes

Horner Automation has released a new Firmware revision for the XL+.

This is available for download from the firmware section at the following websites:

North American Website <https://hornerautomation.com/controller-firmware>
 European Website <http://www.hornerautomation.eu>

NOTE: This Firmware release requires bootloader to be installed. It is not an option.

Latest System File Revisions	
Firmware	15.52
Kernel	4.9.12.3
FPGA	0.1

A NOTE ABOUT FIRMWARE UPDATES:

This firmware has been thoroughly tested, and every precaution has been taken to prevent the introduction of new issues that may be problematic in your application. It is always important for customers to perform their own internal system testing prior to deployment of the new firmware.

Firmware 15.52 - Licensed Features & New Features	
1.	Enhanced IEC Logic Programming - Enhancements over standard IEC in performance, capacity (>5x), online programming and troubleshooting. Requires Cscape 9.90 SP4.
2.	Enhanced IEC Licensing - Features added. Requires Cscape 9.90 SP4.
3.	MQTT - Expanded offline message buffering from 20 messages / broker to 1024 messages / broker. (5177)
4.	Added Ethernet Protocol Reset capabilities for FTP, EGD, Modbus and WebMI protocols - LAN1 and LAN2: %SR156.1 - EGD for LAN1 %SR156.2 - Modbus TCP Slave for LAN1 %SR156.4 - FTP for LAN1 %SR156.5 - WebMI for LAN1 and LAN2 %SR153.1 - EGD for LAN2 %SR153.2 - Modbus TCP Slave for LAN2 %SR153.4 - FTP for LAN2 User should not set other bits of %SR153 and %SR156 to one. (2155)

Firmware 15.52 - Bug Fixes	
1.	Resolved issue where Cscape was not able to connect to XL+ via ethernet after leaving the unit running for multiple days although pinging was functional. (4700)
2.	Resolved issue where in NTP server was skipping a day on New Year's Day. (4910)
3.	Resolved issue where in navigating to screen configured with objects which had overlapping of data value on legend was causing watch dog trip. (5351)
4.	Resolved issue where Modbus Master ladder block was not working (Port loopback test failed on MJ1, MJ2 and MJ3 ports). (5713)

Known Issues in FW15.52	
1.	Live graphics may take max scan rate (SR8) to around 700ms while applying changes to graphics. (1537)
2.	If same IP address and subnet is put for ethernet and Wi-Fi ports, live graphics update will give FTP error when trying to use Wi-Fi interface. (2410) WORKAROUND: Make IP address and subnet mask different for two interfaces.
3.	Copying large data (>100 MB) from microSD to USB or vice versa, an increase in max scan rate (SR8) may be seen. (1998)
4.	There is some delay in starting of audio for first time after clear application / firmware update (about 20 seconds). Subsequent download of csp files may show delay of 3 to 5 seconds after the bit to play audio is turned on. (3330)
5.	Changing Firmware from newer to older version requires two times boot load and MAC ID gets erased. (2350) WORKAROUND: The issue is in old firmware where it is not reading the MAC ID from file. We can provide an intermediate firmware 15.06 which will retain the MAC ID. 15.06 will have only this change to 15.04. NOTE: While bootloading FW 15.04 or previous firmware after loading FW15.05.101, user may be required to bootload two times .
6.	Date format for retentive trends needs to be changed to dd-mmm-yy format. NOTE: This issue has been corrected in Firmware 15.30 for the other XL series devices. (2348)
7.	XL+ scan rate high around 20ms with Animation Object in specific file. (2352)
8.	XL+ watchdog while Device Boot up seen in 1 out of 100 power cycles (after device boots completely, unit resets and watch dog count will be increased). (2326)
9.	Sometimes retentive trends scroll stops very briefly then again starts. (5838)
10.	During Save PGM from System Menu > Removable Media , screen goes to non-responding mode for more than a minute when serial or mini-USB is connected to XL+. (2443) WORKAROUND: Remove serial connection or mini-USB before doing Save PGM from System Menu > Removable Media .
11.	Email will not work with Wi-Fi client mode. (5839)
12.	NTP protocol will not work if DNS IP is not configured. (4478) WORKAROUND: For NTP protocol to work, configure DNS IP.
13.	Sometimes ENDOFFTP.TXT file gets created when publishing webpage through FTP and WebMI will not work. (4440) WORKAROUND: Deleting ENDOFFTP.TXT file or power cycling the device, WebMI will start working.
14.	Enhanced IEC - Sometimes Download to XL+ using CsCAN pass through gives error and Net get word / Net Put word blocks were not communicating after power cycle in XL+. (4886)
15.	Time stamping is not working in Alarm with date/time stamp block in IEC. Existing issue. (5118)
16.	Enhanced IEC - MODBUS Map slave block length check for Read Holding Register and Read coil bits are incorrect. WORKAROUND: Configure same array length for Input Bits and coil Bits. Similarly configure same array length for Input register and Holding Register
17.	Enhanced IEC - MODBUS ASCII protocol is not working for Do Request and old User Master blocks. WORKAROUND: Use MODBUS RTU protocol in Master block or use serial Downloadable with Modbus ASCII protocol.
18.	Enhanced IEC - Using multiple MODBUS blocks Do request and old user in same program with same port are not reading data from slave. WORKAROUND: Use serial downloadable protocol.
19.	Enhanced IEC - Not able to write values to %SR210 and %SR211 from screen and data watch for UTC.
20.	Enhanced IEC - Press key ladder block is not functioning.
21.	Receive and Acknowledgement messages in SMS are not working properly in external modem. (5823)

Technical Support

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