

## Firmware 15.76 XL Series & RCC Release Notes

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Horner Automation has released a new Firmware revision for the following products:  
**XL4, XL7, EXL6, EXL10, RCC, X5 and EXLW**

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 and is not optional.

<b>Latest System File Revisions (XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W)</b>	
Firmware	15.76
OS	2.6.35.86
InitRD	1.30

**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.

<b>Firmware 15.76 – New Features</b>		<b>Affected Controllers:</b> <b>XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W</b>
1.	Security improvements Ethernet ports are open only if they are configured in Cscope and downloaded to the device.	

<b>Firmware 15.76 – Bug Fixes</b>		<b>Affected Controllers:</b> <b>XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W</b>
#	Main Subject	Description
1.	Email Sending	Resolved Email sending using the cell modem was not working after restoring the signal, resulting in a send failure.
2.	Report Printing	Resolved In the report configuration, if the first line was left empty and the “Form feed at End of Report” option was unchecked, the report printed only on the first trigger and failed to print on subsequent triggers.
3.	Modbus TCP With More Than 512 Scan List Entries Between Ports	Resolved The device displayed a System Exception when devices with dual ports were configured with Modbus TCP and had more than 512 total scan list entries across both ports.

<b>Firmware 15.76 – Known Issues</b>		<b>Affected Controllers:</b> <b>XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W</b>	
#	Subject	Description	Workaround
1.	Wi-Fi module	(Rare Occurrence) The Wi-Fi module will not be detected, and/or the Wi-Fi Hardware is detected, but the MACID of the Wi-Fi module is not detected.	Reset by power cycling (unplugging and plugging in) the Wi-Fi module.
		If the LAN cable is removed from the unit, a connection timeout may occur for connected users on WebMI when connected over Wi-Fi.	Log in to the unit again through Wi-Fi.
		The Wi-Fi settings for the Portable Greymap (PGM) file update after a power cycle. Note: Only when the <i>same</i> PGM is loaded (as designed).	To load new parameters, load a PGM with a different Wi-Fi configuration  Note: This issue has not been seen.

Firmware 15.76 – Known Issues			Affected Controllers: XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W
2.	Setpoint	Lreal type Setpoint variables are not being loaded when loading the PGM file into the device; This applies to both Register-based Advanced Ladder logic (RBAL) and Variable-based Advanced Ladder logic (VBAL).	
3.	Modbus Map Slave Block	(Enhanced IEC only) The MODBUS Map Slave Block length check for Read Holding Register and Read Coil Bits are incorrect	<ul style="list-style-type: none"> <li>• Configure the same array length for Input Bits and Coil Bits.</li> <li>• Similarly, configure the same array length for the Input Register and the Holding Register.</li> </ul>
4.	Modbus ASCII Protocol	(Enhanced IEC only) MODBUS ASCII protocol is not working for Do Request and old User Master blocks	Use the MODBUS RTU protocol in the Master Block or use the serial Downloadable with the Modbus ASCII protocol.
5.	Modbus Blocks (Do Request and Old Users Master)	(Enhanced IEC only) Using multiple "MODBUS blocks - Do Request and old User Master" blocks in the same program with the same port; are not reading data from slave.	Use a serial downloadable protocol
6.	Ethernet Download / Upload	Ethernet upload/download delays when exchanging big packets	

Firmware 15.76 – Known Issues			Affected Controllers: (Excludes RCC) XL4, XL7, EXL6, EXL10, X5, EXL6W
7.	USB Camera	The OCS resets when a USB camera is plugged directly into a powered-up unit. (This is a random issue.)	Plug in the video camera before powering up, or use a powered USB hub
8.	Retentive Trends	If Retentive Trends with log is enabled with the multi-language option, two log files will be created on the microSD card. Instead of logging data in a single file, it logs two different files as the languages are switched between	
9.	Clear application	After clearing the application, the device is still in run mode. (This is a random issue.)	
10.	String conversions	Fill Zero is not working in Normal IEC.	
11.	Alarm block	Alarm blocks in Cscape SP4 IEC give a System Exception while accessing previous alarms	
12.	Press Key block	The Press Key ladder block is not working in Enhanced IEC	

Firmware 15.76 – Known Issues			Applicable to XL6W only
13.	Slide Key	The Slide Key moves behind the trend/graph object when configured for full screen.	

Firmware 15.76 – Known Issues			Applicable to X5 only
14.	False Watchdog	A false Watchdog notification is seen when the application is downloaded for the first time, and the unit is power cycled.	Power cycle the unit with an approximately three-second delay to eliminate the Watchdog notification.

Firmware 15.76 – Known Issues			Applicable to RCC only
15.	Debug Option	(RCC2414 only) In Enhanced IEC, if the user selects the debug option, then Cscape displays a connection failed message, and the Ok/Run LED changes to OFF.	
16.	New License File Format	FeatureLicense-MacID is NOT functioning for RCC units	Rename the license file as "featurefirmware.lic"

Firmware 15.76 – Known Issues			Applicable to XL7, RCC (2414) and EXL10 models
17.	EGD Protocol	EGD Protocol issues <ul style="list-style-type: none"> <li>LAN2 EGD status is constantly showing zero, despite data exchange between the devices functioning as expected.</li> <li>Unplugging the LAN2 cable changes the status of the LAN1 EGD protocol</li> </ul>	

## Technical Support

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