

Firmware 15.70 XL & RCC Release Notes

Horner Automation has released a new firmware revision, impacting 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.

Latest System File Revisions for XL4, XL7, EXL6, EXL10, RCC, X5 and EXL6W	
Firmware	15.70
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.

Firmware 15.70 – New Features		Affected Controllers: XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W
1.	Added support for OCSIO models ADC270 and DQM602.	
2.	Retain variables support added for variable-based advanced ladder logic. Note: This requires Cscope version 10 onwards.	

Firmware 15.70 – Bug Fixes		Affected Controllers: XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W
#	Main Subject	Description
1.	Modbus Client	Resolved: Modbus Client sending Zero Value when Holding Register is Not Zero
2.	CAN2 / Power Cycles	Resolved: CAN2 stopped working after several power cycles
3.	Write RM Block	Resolved: Screen calibration was being corrupted when data was being written beyond 128 words (%M2048) using Write Removable Media block
4.	UTC Time	Resolved: UTC time was not updating when downloaded from Cscope
5.	Password Object	Resolved: Title bar of password object was showing nonsense language when Unicode fonts were created
6.	WebMI Alarm History	Resolved: WebMI alarm history page not listing the RTN alarms
7.	ASCII String in AB PLC	Resolved: ASCII string on the Allen Bradley PLC was being corrupted when second ASCII string was being transferred from controller
8.	PID Block in Enhanced IEC	Resolved: CV value of a PID block was not being updated when configured in the Enhanced IEC program
9.	RM copy and delete blocks	Resolved: Adjacent status register was being affected when the first status register was being updated in RM copy and delete blocks
10.	Read RM block (for ASCII data)	Resolved Read RM block was reading entire elements / data for an ASCII data type instead of reading only the configured number of elements
11.	Gmail	Resolved: Gmail was not working for certain SMTP IPs
12.	Protocol size display – BACNet MSTP	Resolved: Protocol size was displayed as ++++++ for BACNet MSTP server in system menu view status

Firmware 15.70 – Known Issues			Affected Controllers: XL4, XL7, EXL6, EXL10, RCC, X5, EXL6W
#	Subject	Description	Workaround
1.	Wi-Fi module	Rare Occurrence: At times the Wi-Fi module will not detect and/or the Wi-Fi Hardware is detected but MACID of Wi-Fi module is not detected	➔ Power-cycle, or unplugging and plug-in, the Wi-Fi module will reset.
		Connection timeout may occur for the connected users on Webmi when connected over Wi-Fi if the LAN cable is removed from the unit	➔ Log-in again (to the unit) through Wi-Fi to resolve this issue.
		The Wi-Fi settings for pgm file updates after power cycle	➔ Only seen when the same PGM is loaded (it is as designed). If a PGM with a different Wi-Fi configuration is loaded, it will load new parameters (issue has not been seen).
2.	Setpoint	Lreal type Setpoint variables are not being loaded by loading pgm file into the device - RBAL and VBAL	
3.	Conversion Blocks	ASCII to LREAL and DINT to LREAL conversion blocks are not functioning correctly	
4.	Modbus Map Slave Block	MODBUS Map slave block length check for Read Holding Register and Read coil bits are incorrect – Enhanced IEC	Configure same array length for Input Bits and Coil Bits. Similarly configure same array length for Input Register and Holding Register
5.	Modbus ASCII Protocol	MODBUS ASCII protocol are not working for Do Request and old User Master blocks – Enhanced IEC	Use MODBUS RTU protocol in Master block or use serial Downloadable with Modbus Ascii protocol
6.	Modbus Blocks (Do request and old users master)	Using multiple MODBUS blocks Do request and old user in same program with same port are not reading data from slave – Enhanced IEC	Use serial downloadable protocol
7.	%SR210 and %SR211	Not able to write values to %SR210 and %SR211 from screen and data watch for UTC in Enhanced IEC – Enhanced IEC	
8.	Ethernet Download / Upload	Ethernet Upload / Download delays when exchanging big packets	

Firmware 15.70 – Known Issues			Affected Controllers: (Excludes RCC) XL4, XL7, EXL6, EXL10, X5, EXL6W
9.	USB Camera	OCS resets when a USB camera is plugged directly into a powered-up unit; only seen in some USB cameras	Plug video camera in prior to power-up or use a powered USB hub
10.	Retentive Trends with Log	If Retentive Trends with Log is enabled with the Multi Language option, then two log files are created in microSD. Instead of logging data in single file, it is logging in two different files when switch between languages	
11.	Multiple CF Operations	Multiple CF operations are allowed in Enhanced IEC	
12.	Clear Application	After clearing the application, the device is still in run mode (randomly occurring)	
13.	String Conversions	Fill zero is not working in Normal IEC	
14.	Alarm Block	Alarm blocks in Cscape SP4 IEC gives System Exception while accessing previous alarms	
15.	Press Key Block	Press key ladder block is not working in EIEC	
16.	Pop Up Keypad (Editable Objects)	For editable objects, pop up keypad does not display header name correctly if the user configures external fonts	
Firmware 15.70 – Known Issues			Applicable to XL6W only
17.	Slide Key	Slide Key goes behind trend / graph object when configured for full screen	Use internal fonts for correct header name display
Firmware 15.70 – Known Issues			Applicable to X5 only
18.	False Watch Dog	False Watch Dog is seen when the application is downloaded for first time and the unit is power-cycled	Power-cycling the unit with approximately 3 seconds delay no watch dog will be seen.
Firmware 15.70 – Known Issues			Applicable to RCC only
19.	Debug option	RCC2414 - In Enhanced IEC, if the user selects the debug option, then Cscape displays connection failed message and Ok / Run LED goes OFF	
20.	New license file format	"FeatureLicense-MacID" is not working for RCC units	Rename the license file as "featurefirmware.lic"

Firmware 15.70 – Known Issues			Applicable to XL7, RCC, and EXL10
21.	EGD protocol	EGD Protocol issues (Mantis #10337) - a) LAN2 EGD status is constantly displaying zero even though data exchange between the devices is working as expected. b) Unplugging the LAN2 cable changes the status of the LAN1 EGD protocol	

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