Firmware 16.14 Release Notes

Horner Automation has released a new Firmware revision for the Prime series: **X5 Prime, XL4 Prime**, **XL6 Prime, XLW Prime, XL7 Prime and XL10 Prime.**

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	16.14
OS Version	4.19.49

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 16.14 - New Features	
1.	Support added for LAN2 when using included USB Dongle for XL7 and XL10 Prime models only. Requires Cscape 9.9 SP8 or higher.
2.	New X5 Prime model has been added. **NOTE**: Requires Cscape 9.90 SP8 or higher.

Firmware 16.14 – Resolved Issues	
1.	Resolved issue when conversion blocks were working for ODD register numbers only and was failing EVEN register number in Register-Based Advanced Ladder. (6233)
2.	Serial Modbus communication has been improved for higher baud rates. (7674)

	Known Issues in X5 Prime, XL4 Prime, XL6 Prime, XLW Prime, XL7 Prime & XL10 Prime
1.	Inhibit Write command is not working properly for Modbus slave ladder blocks. (7673)
2.	CANOpen application does not work properly if the application is converted from IEC to Enhanced IEC b and forth multiple times then downloaded. (6919)
3.	CANOpen Passthrough is not functioning properly. (7070)
4.	Zero ID is not displaying in System Menu for DeviceNet protocol. (7267)
5.	Modbus UDP slave is not working for ports other than 502 - Enhanced IEC. (6960)
6.	Snapshot / Continuous trend after a power cycle starts at a slow pace and then picks up speed. (6866)
7.	Occasionally, the changing of CAN baud rates continuously in System Menu causes unit to reset and watch dog count will be increased. (6817)
8.	Retentive Trend, after a power cycle, does not retain value and no vertical line is drawn. (7344)
9.	Updating firmware from USB is not working when triggered via from SR (System Registers) if both bootable microSD and USB are present on the device. (8219)
10.	EnvisionRV is unable to retrieve the correct FW version of the OCS while uploading the program from the controller. (8213)
11.	Device doesn't go to RUN mode, when unit is in idle mode and power cycled after doing Export to RM and loading the PGM on device. (8390) Workaround: Either place controller in RUN mode or download program directly from Cscape.
12.	**X5 Prime Only** (8453) Digital outputs turn ON when the device is powered on.
13.	Streaming is not working with FULL SCREEN resolution. (8535)
14.	Screen capture is not working for playback and streaming. (8536)
15.	Loading MQTT Configuration via PGM file is not working (only in single CAN models). (8562) **Workaround**: Download from Cscape.

NOTE: Issues that are in XL OCS Series might also be seen in XL Prime OCS Series: X5 Prime, XL4 Prime, XL6 Prime, XLW Prime, XL7 Prime, XL10 Prime.

	Known issues in XL Prime Series, also seen in XL OCS Series (FW 15.54)
1.	J1939 Protocol Enhanced IEC - Transmit PGNs Send On trigger is not working. (7458)
2.	IEC Open Flexible Comm block not working for any of the ports without tagging variables in the block with AOS enabled. (7727)
3.	Wi-Fi downloadable protocol (Modbus Client) is not working with Dynamic scan list / External Registers (XL4 as master). (7517)
4.	Sun Position block is not working properly - Variation in Azimuth angle is seen in Register-Based Advanced Ladder and Enhanced IEC. (7696)
5.	CT RTU Drive - Device status toggles between -1 and 1 even though valid response count is increasing. (7678)
6.	Creation of recipe file (*.csv) within folder is not working. (7608)
7.	In Enhanced IEC, String Block Insert Character is not inserting character while giving string input (SIN) as constant. (7669)
8.	PWM at maximum duty cycle (32000) results in 0V output. (7676)
9.	WebMI issue (7472) a. Menu Object - GrEdit Screen Sync option is not working for Menu Options like Enter, Esc and Others. b. Bit Map - No of Colors 2 is not working, no of colors 16 - WebMI and OCS screen shows differently. c. Data Trend – Axis properties -> X-Axis Range font not showing as per selection. d. Retentive Trend – Accessing Data Trend page, if user navigates between tabs, then Data Trend is not showing properly on webpage. Minutes and Hours sample rate is not working properly on webpages. e. Removable Media - Selecting RM block does not display files.
10.	Serial downloadable Port MJ1/MJ2 issues on External registers (6837) a. Serial Downloadable Master/Slave Parity and Stop bits mismatch - CRC and NO response not increasing b. Manual update trigger bool gets reset without successful polling when the Slave ID is Invalid c. Dynamic or External Register Scan list, while switching screen 3 to 4 times, continuously increasing corrupt response for 1 to 3mins, for every screen switch time 1 to 3 Corrupt response is increasing and 1% No Response Error increased.
11.	Device will not go to RUN mode if CANOpen SET NMT block is configured in AOS Enabled IEC program. (7554)
12.	Line Shape Object - for line color selected as None, white line is displayed on device. (6872)
13.	Enhanced IEC Gauge Object issue (6998) a. Needle length is not working when configured via register/variable reference b. Gauge Style – Needle Style is not working properly on device
14.	%SR5 does not display correct value when device is in online / safe mode. (6744)
15.	Alarms and Retentive trend log files (.csv) are not created unless and until power cycled for Variable Based Advanced Ladder and IEC only. (8331)

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