

Firmware 17.30 XL Prime Release Notes

Horner Automation has released a new Firmware revision for the following **XL Prime** products: **XL6 Prime, XLW Prime, XL4 Prime, XL7 Prime, XL10 Prime, X5 Prime, XL10W Prime, and XL15 Prime.**

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

North American Website <https://hornerautomation.com/controller-firmware>

European Website <https://hornerautomation.eu/support/firmware/>

Latest System File Revisions for Products:	
Firmware	17.30
FPGA	0.2
Operating System	4.19.49
System Version	99

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.

New Features		Affected Controllers: All Prime models
1.	Added "OCSIO Base Identification" feature, including the capability to trigger it from the System Menu. Note : Requires Cscape 10.2 onwards	
2.	Added OCS360 System Menu Pages	
3.	Enhancements were made in the boot-up message by displaying the boot-up messages in a single screen.	
4.	Security Improvement Ethernet ports are open only if they are configured in Cscape and downloaded to the device.	
5.	Added logging of "return" state alarms, wherein if the alarm was acknowledged, but still in the alarm state, after the alarm returns to normal, the return was not being logged.	
6.	Added system register bit for restore operation from logic: %SR164.16 – Restore operation	

Bug Fixes		Affected Controllers: All Prime models
#	Main Subject	Description
1.	Device Going into Idle Mode	Resolved - After publishing for a few minutes to OCS360, the device went into Idle mode and showed a logic error in the diagnostics.
2.	Loading .Pgm of Incorrect I/O Configuration	Resolved - Loading a .pgm file did not match the exact model of the OCS and was not displaying an error message on the device.
3.	Video Object	Resolved - Playing certain video files having non-standard resolution resulted in the shifting of the video towards the right of the video object.
4.	LAN2 Data Spilling into LAN1	Resolved - LAN2 data was spilling onto LAN1 data registers when using EtherNet/IP on both LAN1 and LAN2.
5.	Email Sending	Resolved - Email sending using a cell modem was not working after restoring a signal, which resulted in a send failure.
6.	Ethernet Configuration – IP Address	Resolved – The dynamically configured IP address was not editable using the System Menu in Idle mode.
7.	Ethernet I/P Configuration	Resolved – The Ethernet/IP protocol stops working if the Consumed/Produced configuration exceeds 128 words.

Bug Fixes		Affected Controllers: All Prime models
8.	Overlapping of Graphic Objects	Resolved - Issues related to the overlapping of graphic objects as objects had been disappearing or becoming distorted.
9.	Clear Alarm in Alarm History Object	Enhanced IEC only Resolved - Clearing alarms from the alarm history object was giving a system exception.
10.	Wi-Fi System Menu Page	Resolved - Optimized the WI-FI System Menu page, wherein opening the WI-FI System Menu page was increasing the scan rate slightly.
11.	CANopen Protocol	Resolved the following issues related to the CANOpen protocol: <ul style="list-style-type: none"> Resolved - Set NMT block for self-node was not working in the CAN2 port for an Enhanced IEC program. Resolved – The device was displaying a system exception when triggered “CANopen Receive Emergency Device” CANOpen block in an Enhanced IEC program. Resolved - The device was displaying a system exception when downloading the CANOpen program while Array Of structures is enabled. <ul style="list-style-type: none"> Workaround (3rd bullet only): Power cycle the device and redownload the program for an Enhanced IEC program.
12.	MQTT with Broker Not Running	Resolved – The device displayed a system exception when triggered by MQTT without running a broker.
13.	Alarm Issues when Configured with a Boolean Array Variable	Resolved – The alarm was configured with a Boolean array variable in an Enhanced IEC program. <ul style="list-style-type: none"> Triggering an alarm was displaying a different alarm on the device. Triggering an alarm was displaying an alarm message multiple times on the device.
14.	ASCII Over TCP/IP	Resolved - An ASCII over TCP/IP issue in which the device status was not displayed correctly after disconnecting and reconnecting the server.
15.	Multiple MODBUS Blocks Do Request, And Old User Blocks	Resolved - Data from the slave was not being read when there were multiple MODBUS blocks Do requests and old user blocks were used in the same program with the same port being configured in an Enhanced IEC program.
16.	Modbus Slave	Resolved – A system exception was displayed on the slave device when the array of length of holding registers and input registers of the Enhanced IEC Modbus Map slave or Modbus Map Extended slave block was changed and downloaded to the slave device; when both master and slave devices are communicating.

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17.	Fluctuation in Analog Input Values	Resolved - Analog Input values were fluctuating. Note: Applies only to Canvas 7D / Canvas 10D with Models 2, 3, and 4.
18.	Failure of Auto-populate	Improved auto-populate feature in OCS-I/O. Note: Requires CNX116 / CNX100 firmware version 48 onwards.

Known Issues		Affected Controllers: All Prime models	
#	Subject	Description	Workaround
1.	CANOpen	<ul style="list-style-type: none"> The CANOpen application does not work as expected if the application is converted from IEC to Enhanced IEC, then from Enhanced IEC to IEC, then again from IEC to Enhanced IEC and back... repeatedly, followed by attempting to download. Downloading the program is not working using CANOpen Passthrough. Changing CAN baud rates continuously in the System Menu may cause the unit to reset, and the watchdog count may increase (this is a random occurrence). The device does not enter RUN mode if the CANOpen SET NMT Block is configured in the Array of Structure Enabled IEC program. 	N/a
2.	Trend	<ul style="list-style-type: none"> For Snapshot/Continuous trend types, the power cycle starts at a slow pace and then increases in speed. Retentive Trend – After a power cycle, the vertical line indicating a power loss is not being drawn on the trend. 	N/a
3.	J1939 protocol	Transmit PGNs Send On trigger is not working when configured in Enhanced IEC program.	N/a
4.	IEC Open ladder block	The IEC Open Flexible Comm Block is not working when variables are not tagged in the Array of Structure mode.	N/a
5.	Recipe configuration	The creation of a recipe file (*.csv) within a folder is not working.	N/a
6.	String block	The String Block Insert Character function is not inserting characters while giving string input (Sin) as constant – Enhanced IEC	N/a
7.	PWM	PWM 1 and PWM 2 do not work correctly for the maximum count of 32000.	N/a
8.	WebMI Issues	<ul style="list-style-type: none"> Menu Object - Edit Screen Sync options are not working for Menu Options like Enter, Esc, etc. 	N/a

Known Issues		Affected Controllers: All Prime models	
		<ul style="list-style-type: none"> • Bit Map - In Bitmaps, the Number of Colors Selection 2 is not working correctly, and there is a difference seen in the webpage and device when the Number of Colors Selection is 16. • Data Trend - The X-Axis Range font does not appear as per the configuration. • Retentive Trend - When accessing the Data Trend page, if the user navigates between tabs, then Data Trend does not appear correctly on the webpage. The Minutes and Hours sample rate is not working correctly on web pages. • Removable Media (RM) - Selecting the RM Block does not display files 	
9.	Serial downloadable port MJ1 / MJ2 (External Registers)	<ul style="list-style-type: none"> • If there is a mismatch between the serial downloadable master/slave parity and stop bits, the CRC and No response do not increase. • The manual update trigger bool is resetting without successful polling when the Slave ID is Invalid. • The External Register, while switching screens three (3) to four (4) times, continuously increases corrupt response for one (1) to three (3) minutes, for every screen switch. 	N/a
10.	Shape object	If the line color is selected as 'None' in the line shape object, a white line appears on the display of the device.	N/a
11.	SR5	%SR5 does not display the correct value when the device is in online/safe mode.	N/a
12.	WI-FI in Client mode	The device requires a power cycle for WI-FI to work when a user downloads the WI-FI client program after downloading the access mode program.	N/a
Applicable to X5 Prime Models Only			
14.	Digital outputs	Outputs that are on during a power cycle may remain on for up to 1.8 seconds while the unit reboots.	N/a

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