

## Firmware 16.10 Micro OCS Series Release Notes

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Horner Automation has released a new Firmware revision for the Micro OCS Series products: X4, X7, and X10

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 the Micro OCS Series	
Firmware	16.10
BIOS	X4 – 0.34, X7 – 0.14, X10 – 0.08
CPLD	1.2

**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 16.10 – New Features		Affected Controllers: X4, X7, X10
1.	Added support for CPU200 (OCS-I/O CPU series) <b>Note:</b> Requires Cscape 10.1 SP1 onwards	
2.	Added J1939 support <b>Note(s):</b> <ul style="list-style-type: none"> <li>This is enabled through the following extension – <b>J2M58-12I15-92C52-38R6D-95OX5</b></li> <li>Requires J1939 license</li> <li>Requires Cscape 10.2 onwards</li> </ul>	
3.	Added “OCSIO Base Identification” feature, including the capability to trigger it from the System Menu. <b>Note:</b> Requires Cscape 10.2 onwards	
4.	Security improvements: Ethernet ports are opened 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 the restore operation from logic. Restore operation: %SR164.16	
7.	Added System Register Bit for indicating the status of the CAN port Indicates a CAN port error: %SR4.14	

Firmware 16.10 – Bug Fixes		Affected Controllers: X4, X7, X10 (unless otherwise specified)
#	Main Subject	Description
1.	Loading .Pgm Of Incorrect I/O Configuration	Resolved - Loading a .pgm file did not match the exact model of the OCS, and it was not displaying any error message on the device.
2.	Overlapping Of Graphic Objects	Resolved - Overlapping of graphic objects wherein the objects were disappearing or were becoming distorted.
3.	Ethernet I/P Configuration	Resolved - Ethernet/IP protocol stopped working if the Consumed / Produced configuration exceeded 128 words.

Firmware 16.10 – Bug Fixes		Affected Controllers: X4, X7, X10 (unless otherwise specified)	
4.	Email (Port 25)	Resolved - Email stopped working when Port 25 was used without authentication, but the response from the email server was switching to TLS. Due to this resolution, if the username and password are not configured with Port 25, the firmware uses the SMTP protocol without authentication, ignoring switching to TLS.	
5.	Longer Filename Support	Enhanced filename (RM blocks, PGM) support from 8 characters to 47 characters support	
6.	Loading Of .PGM File	Resolved: Loading a specific PGM file displayed a “BAD Format” error on the device.	
7.	WebMI	Resolved the following issues related to WebMI: <ul style="list-style-type: none"> <li>FTP issue: An FTP error was being displayed while publishing webpages after a power cycle.</li> <li>WebMI pages not loading: Web pages were not being loaded after signing in.</li> </ul>	
8.	Dynamic Configuration On OCS-I/O	Resolved: OCS-I/O configured with dynamic configuration was not working.	
9.	Failure Of Auto Populate	Improved auto-populate feature in OCS-I/O. <b>Note:</b> Requires CNX116 / CNX100 FW Version 48 onwards.	
<b>X7 and X10 Models Only</b>			
10	Slider Object	Resolved: The slider was drifting from its position when the user held the slider in one position	

Firmware 16.10 – Known Issues		Affected Controllers: X4, X7, X10 (unless otherwise specified)	
#	Subject	Description	Workaround
1.	Load Clone Feature With Password-Protected Autoload.Pgm Files	If the correct password is not entered before the timeout, all following attempts to Load will not work, even if the correct password is entered within the timeout period.	<ol style="list-style-type: none"> <li>1. Clear the application.</li> <li>2. Cycle power to the controller.</li> <li>3. Perform Load Clone with correct password before timer expires.</li> </ol>
2.	Backup Register	The Backup Register feature takes a long time (about 500ms), impacting the Scan Rate in Run Mode.	N/a

3.	WebMI License On The System Menu	The WebMI license details on the System Menu are not shown if the Ethernet cable is removed.	To view the WebMI license, first connect the cable.
<b>X10 Model Only</b>			
4.	System Menu Pop-Up Delay	There is a delay of approximately 1.5-1.8 seconds before the System Menu screen opens following pressing the System Key on an X10	The graphics time slice is to be increased from 10mSec to 20mSec.

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