

CYLON® TECHNICAL BULLETIN NO. 528
 Issue Date: 14 December 2023

CXpro^{HD} v1.07.03

Summary

Introducing new CXpro^{HD} strategy modules and fixed outstanding issues.

Features

Note: CXpro^{HD} 1.07.03 is compatible with Windows 10 Professional 64-bit, and Windows 11

NEW STRATEGY MODULES

The following new strategy modules have been added to CXpro^{HD}:

MS/TP Status module

The **MS/TP Status** module monitors BACnet MS/TP devices under a FBXi controller. (This module cannot be used in a MS/TP controller.) The module can monitor critical MS/TP controllers or FLX modules. If these devices are offline, an alarm output can be used, and supplemental sequences can be implemented.

Note: This module requires firmware version 9.3.1 or greater.

MS/TP Status 1	
Failure MS/...	<input type="checkbox"/>
0-15	<input type="checkbox"/>
16-31	<input type="checkbox"/>
32-47	<input type="checkbox"/>
48-63	<input type="checkbox"/>
64-79	<input type="checkbox"/>
80-95	<input type="checkbox"/>
96-111	<input type="checkbox"/>
112-127	<input type="checkbox"/>
FLX	<input type="checkbox"/>
Port: 1	

BACnet Analog Priority Writer module

The **BACnet Analog Priority Writer** module controls different priority levels of an analog BACnet value or output.

A priority level is controlled by the **Value** input, the **Write Control** input, and the priority level constant. The **Value** input is applied to that level of the **priority array** when the **Write Control** input is **high**. You can set any value of any level from 1 to 16 in the priority array or disable it by setting the **priority** to "Not Configured".

The **priority array** for the **analog value** or **analog output** is viewable through BACnet. In addition, the following two properties are provided to show what is being written.

Property 50000 displays the current commanded priority.

Priority 16 is written at the strategy level.

Property 50001 will display if an override in the priority array is in effect. If the current commanded priority is between 1...15, this value will be **true**, otherwise it is **false**.

Note: This module requires firmware version 9.3.1 or greater for IP devices and 9.2.6 or greater for MS/TP devices.

BACnet Analog Priority Writer 2	
Value 1	<input type="checkbox"/> Error <input type="checkbox"/>
Write Control 1	<input type="checkbox"/>
Value 2	<input type="checkbox"/>
Write Control 2	<input type="checkbox"/>
Value 3	<input type="checkbox"/>
Write Control 3	<input type="checkbox"/>
Value 4	<input type="checkbox"/>
Write Control 4	<input type="checkbox"/>
Value 5	<input type="checkbox"/>
Write Control 5	<input type="checkbox"/>
Value 6	<input type="checkbox"/>
Write Control 6	<input type="checkbox"/>
Value 7	<input type="checkbox"/>
Write Control 7	<input type="checkbox"/>
Value 8	<input type="checkbox"/>
Write Control 8	<input type="checkbox"/>
Destination Object Type: 1; Device ID: 0; Val...	

BACnet Binary Priority Writer module

The BACnet Binary Priority Writer module controls different priority levels of a binary BACnet value or output.

A priority level is controlled by the Value input, the Write Control input, and the priority level constant. The Value input is applied to that level of the priority array when the Write Control input is high. You can set any value of any level from 1 to 16 in the priority array or disable it by setting the priority to "Not Configured".

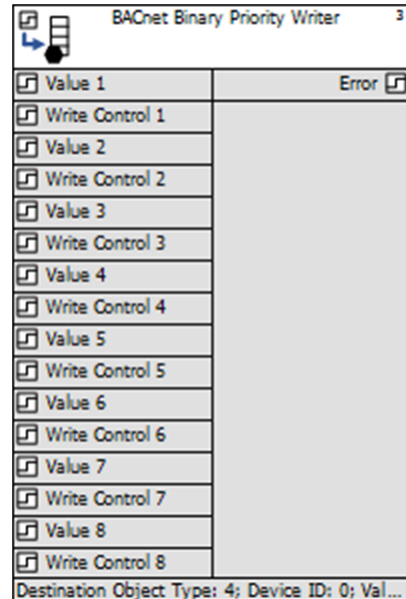
The priority array for the binary value or binary output is viewable through BACnet. In addition, the following two properties are provided to show what is being written.

Property 50000 displays the current commanded priority.

Priority 16 is written at the strategy level.

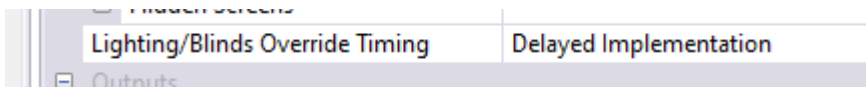
Property 50001 will display if an override in the priority array is in effect. If the current commanded priority is between 1...15, this value will be true, otherwise it is false.

Note: This module requires firmware version 9.3.1 or greater for IP devices and 9.2.6 or greater for MS/TP devices.



FUSIONAIR INSTANT LIGHTING ADJUST

A new constant parameter has been added to the FusionAir module as follows:



This "binary switch" changes how quickly the lighting and blind control can be overridden from the FusionAir Sensor. When this switch is set to off, changes to these values are implemented several seconds after the user stops changing them (i.e. the conventional user experience). When this switch is set to on, the user will see immediate changes to every incremental change to the lighting and blind controls without waiting for a timeout to accept and implement them.

Note: This new constant in the FusionAir module requires firmware version 9.3.1 or greater for IP devices and 9.2.6 or greater for MS/TP devices

RESOLVED ISSUES

- ST-10593 Fixed site.ini file access issue that could result in corruption of Analog units.
- ST-10450 Invalid page name labels can no longer be added to a strategy.
- ST-10480 Fixed issue with checking minimum Firmware Version support for modules during a Full Download.
- ST-10506 SiteGuide support has been added to the FBVi and FBTi controllers. Note: This requires firmware version 9.3.1 or greater.
- ST-10451 An automatic fix has been added for duplicate text modules that are found when opening a Macro.
- ST-10450 A copy & paste issue has been fixed that could cause strategy corruption when using virtuals in Macros. Also a check and recovery has been added for this issue when opening existing Macros.
- ST-10221 The NBPro install has been updated to the latest version 2.26.3. NBpro now shows all 32 Modbus device slots for both CBXi & FBXi controllers.
- ST-10336 Batch download now exposes VAV Damper Position over BACnet.
- ST-10362 Fixed issue with adding connectors to Hardware Input modules
- ST-10303 Fixed issue with downloading Digital point units during partial download.

- ST-10363 The speed of downloads and firmware upgrades from CXpro^{HD} has been increased.
- ST-10330 Fixed issue with copy and pasting Modbus modules.
- ST-10306 The 0-10 V sensor is now selected for Uniputs on CBV controller and cannot be changed.
- ST-10523 Fixed possible crash issue when a Macro with a digital constant was adding to a strategy.
- ST-10548 Fixed possible strategy corruption issue when uploading a Macro with greater than 750 modules.
- ST-10531 Updated NBpro to include the new FusionAir module parameters. Version is now 2.26.0.4
- ST-10573 Fixed issue with re-downloading strategy data to an IP controller after a Firmware Upgrade.
- ST-10574 Added Modbus support to the FBVi and FBTi controllers (requires firmware version 9.3.1 or later).
- ST-10591 Fixed issue where the incorrect default Analog units were being assigned in CXpro^{HD}.
- ST-10595 Added minimum firmware version restriction of 9.3.1 for downloading the SiteGuide program to FBTi and FBVI controllers.
- ST-10594 Fixed issue where deleted Modbus devices were reappearing after a strategy was closed and re-opened.
- ST-10592 Fixed issue when copying and pasting Modbus modules. Only referenced Modbus devices are now copied and pasted instead of the full Modbus configuration.
- The speed of compare has been increased, by requesting only blocks that exist on the controller.
 - The context-sensitive module Help has been updated to make it easier to read for repetitive data.
 - The software licensing model has been modified so that the hardware ID is more flexible for users with laptops.
 - Handling of BACnet Date Time properties has been improved.
 - BACnet properties have been updated to handle the following objects/properties: Device, Analog Point, Digital Point, Trendlog, Third Party, Fusion Bus, Fusion Module, Modbus IP Config and Licence

Customer Impact

Customers affected by any of the issues listed here should update to v1.07.03 as soon as is practical.