

CXpro^{HD} v1.04

Summary

Constant parameters can now be downloaded in certain modules without the need to cycle the controller outputs, and the LiveLog dialog has been made more intuitive to use.

Background

As part of ABB's policy of continuous improvement, new BMS products are being introduced. CXpro^{HD} is updated in parallel to support the new products.

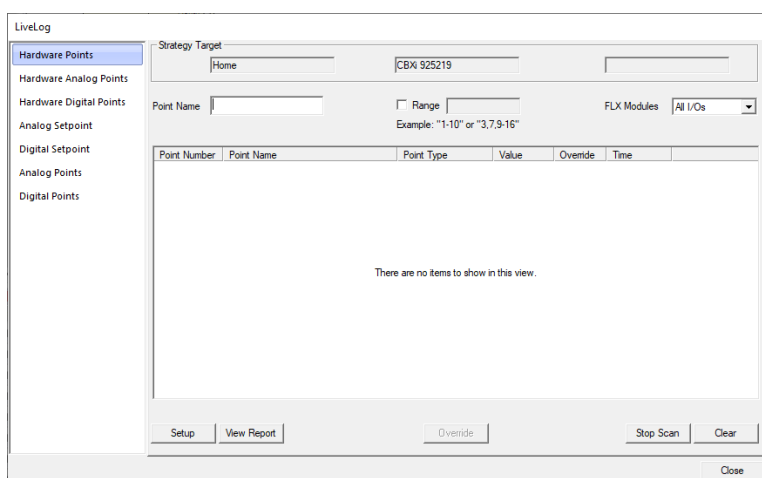
Features

1. Support has been added for downloading constant parameters in certain modules, without the need to cycle the controller outputs.
2. The LiveLog dialog in CXpro^{HD} has been updated to make it more intuitive to use.
3. Several issues have been resolved.

ENHANCEMENTS

LIVELOG DIALOG

The LiveLog dialog has been updated as follows:



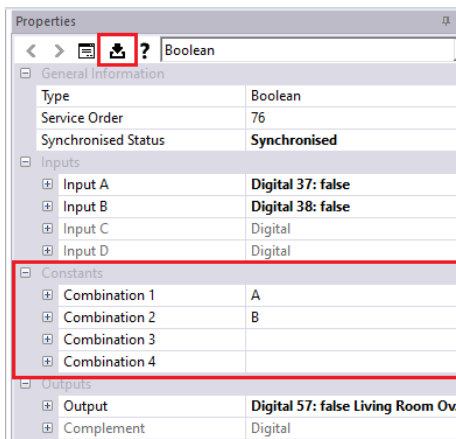
The changes include:

- The dialog is now modal, so the strategy cannot be changed while the dialog is open.
- Multi-strategy options have been removed.
- Additional methods of filtering based on type, point name, point address and FLX module have been added.
- The obsolete 'Time Schedule' and 'Network' options have been removed.

DOWNLOAD MODULE CONSTANTS

This version of CXpro^{HD} will allow users to download changes to module constants, without cycling the controller outputs.

The following image shows the properties for a strategy module that includes this new functionality:



The highlighted button at the top can be selected to download any changes to the highlighted constants parameters, without cycling the controller outputs.

Note: Download of constants will only be possible when all other module parameters are synchronized between the strategy and controller.

Note: Not all modules will have this functionality. The modules where this has been implemented are listed below.

The following modules may have their constants downloaded at run-time without causing a cycle of the controller outputs.

- Hysteresis
- Tuneable Hysteresis
- Enthalpy
- Boolean
- Forward PID
- Reverse PID
- Tuneable Forward PID
- Tuneable Reverse PID
- Alarm
- Real Constant
- Integer Constant
- Digital Extract
- Time Proportional Driver
- Raise Lower Driver
- Digital Constant
- Long Timer
- Timer with Constant Inputs
- Minimum Off Timer
- Holiday Schedule
- Make Linear
- Meter
- HX-Diagram
- Runtime
- Damping
- Rounding
- Trigonometric Math
- Cooling Optimizer A
- Heating Optimizer A
- Heating Optimizer B
- Deadband Variable
- CBT Stat
- Custom PID
- VAV Actuator
- VAV Flow Calculation
- Staging
- Analog Multiplexer
- Digital Multiplexer
- Bitwise Logic
- BACnet Accumulator
- Duty Standby
- Analog Select
- Out Of Range
- Control Changeover
- Equation

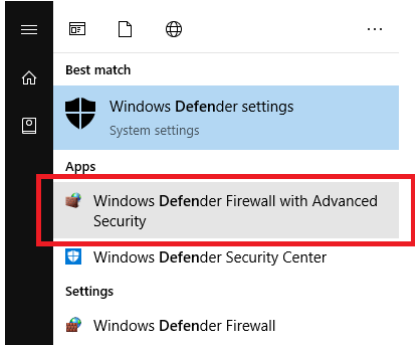
RESOLVED ISSUES

- ST-7746 **Controller Commissioning** has been updated to allow commissioning of IP Device strategies.
- ST-8272 The **Dithering** column in the **I/O terminals** dialog is now hidden for controllers that do not support it.
- ST-8292 Copy and Paste of connectors connected to macros now works correctly.
- ST-8286 German-language installs now display **tooltip** and **constant** section for Boolean modules correctly.
- ST-8308 IP and BBMD information are now saved after commissioning MS/TP devices.
- ST-8354 Set correct value for the **Generate Alarm On** parameter in the **BACnet Alarm** module.
- ST-8474 Fixed issues with **Strategy Association** and **Copy Strategy To** for controllers with same MS/TP address but on different ports.
- ST-8030 Update names of new strategy files to include port number, if applicable, during **Copy Strategy To**.
- ST-8438 Implemented method to cancel commissioning while discovering or reading the device properties.
- ST-8408 Fixed strategy issues when changing controller from **CBR** to **Dualport**
- ST-8499 Commissioning a controller does not now change the controller names unless these names are manually changed by the user.
- ST-8477 Full strategy copy & paste no longer opens all paste target strategies during the operation.
- ST-8453 The **BACnet Point Configuration** dialog is now resizable.
- ST-8492 Fixed issue where the **Properties** window values for **FLX** hardware points was incorrect when the target controller was under a dual port router.
- ST-8503 Increased the minimum width of the IP Address control on the **Mass Commissioning** dialogs to ensure 3 characters can be entered.
- ST-8558 Fixed issue where hardware point units could be greyed out in the **Properties** window.
- ST-8687 Fixed issue where imported Macros were adding text modules as Page Labels.
- ST-8728 Fixed issue so that importing a Macro into a German-language install will keep the setpoint names.
- ST-8780 Not now possible to connect multiple virtual modules in parallel in a strategy.
- ST-8732 In **Site Organiser**, the delay after a firmware upgrade to a **CBXi** now defaults to **40** seconds.
- ST-8206 Live values read from the controller now appear in bold in the **Properties** window.
- ST-8208 The BACnet port number now defaults to **47808** on all dialogs.
- ST-8779 Added the **CBV-N** type to possible controller types in discovery.
- ST-8553 Added a warning when the user changes **IP Controller type** to a type that doesn't support strategies when controller has an associated strategy.
- ST-8554 Removed the possibility of setting duplicate networks numbers on the same device.
- ST-8502 Fixed issue where **FBXi** schedules were not working correctly on the **SiteGuide**.
- ST-8184 The correct error message is now shown in **CXpro^{HD}** if the user attempts to communicate with a device without selecting a network interface first.
- ST-8209 Allow user to configure the default sensor for Analog Inputs, based on the hardware I/O type, in the **Application Settings** dialog. Only I/O types valid for Analog inputs will be shown.
- ST-8207 Set output mode to **Relay/Triac** automatically when adding a Uniput as a Digital Output for the point types that support it. This is any I/O with a Triac/Relay.
- ST-7951 Do not display VAV Actuator outputs in the **I/O Terminals** dialog (affects point 16 on **FBVi** and **CBV** controllers)
- ST-8179 Changed the default value for "Generate alarm on" to **High Value** on the **BACnet Alarm** module.
- ST-8178 In **Site organiser**, added different delays after sending the firmware file depending on controller type. These delays can now be configured from the Firmware Upgrade instruction dialog

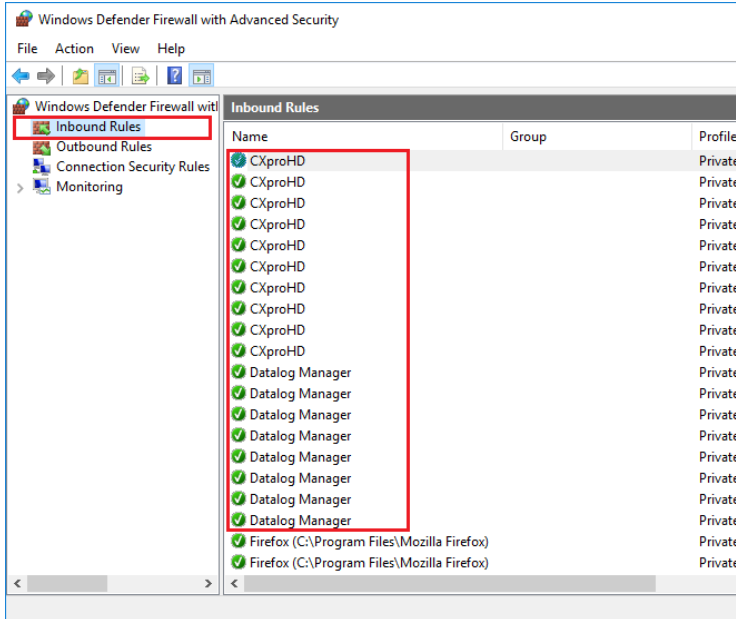
KNOWN ISSUES

1. A specific Firewall setting has been reported to block broadcast BACnet packets, causing a situation where users must enter BBMD settings in CXproHD to allow communication when PC and devices are on the same local network. This setting can be disabled as follows:

- o Open Windows Defender Firewall with Advanced Security



- o Select Inbound Rules and disable / delete rules associated with CxproHD and Datalog Manager:



2. On all IP controllers with firmware versions earlier than 8.3.6, some of the strategy may not be retained during a firmware upgrade run from the Site Organiser. This version of CXproHD will detect the problem and warn the user that they must uncheck the 'Retain Strategy' option when upgrading firmware on these controllers. The strategy would then need to be re-downloaded separately following the firmware upgrade.
3. The firmware upgrade of CBXi controllers using the Site Organiser can sometimes fail. This is usually resolved by re-running the upgrade operation or upgrading the controller firmware via the web page.

Customer Impact

Any customer affected by any of the issues listed above should upgrade when convenient.