

CYLON® TECHNICAL BULLETIN NO. 502

Issue Date: 01 November 2022

CXpro^{HD} v1.07.00

Summary

Support for the Aero^{CT} mobile app has been added.

Features

Note: CXpro^{HD} 1.07.00 is compatible with Windows 10 Professional 64-bit.
At this time there are no known issues with Windows 11. We will continue to evaluate our products for the best Windows operation and experience.
The minimum configuration to run this application is: Core 2 Duo E6300, 1Gb RAM, 80Gb hard drive.
The recommended configuration is: Core 2 Duo E6600, 2Gb RAM, 160Gb hard drive.

Aero^{CT} CONFIGURATION

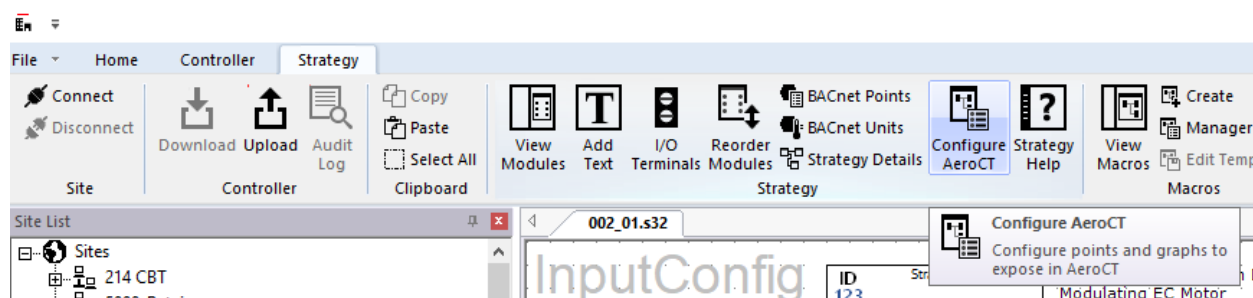
Aero^{CT} is a mobile application that allows users to commission Controllers, edit Setpoints, and view graphs for tuning Site performance.

In order to use the mobile app, the Site must be configured to expose setpoints and points to graph, from CXpro^{HD}.

Note: This feature is only available for controllers that have External Flash.

Note: Aero^{CT} Configuration is only supported on controllers with Firmware Version 9.1.0 or greater.

From the Ribbon Bar under the Strategy Tab, select Configure AeroCT.



This opens the AeroCT configuration dialog:

AeroCT Configuration

Setpoints to Configure from AeroCT

Name	Number	Type
<input checked="" type="checkbox"/> inputConfig	1	Analog
<input checked="" type="checkbox"/> zoneSP	3	Analog
<input checked="" type="checkbox"/> occSPDeadband	4	Analog
<input checked="" type="checkbox"/> unoccSPDeadband	21	Analog
<input checked="" type="checkbox"/> standbyOffsetSP	28	Analog
<input checked="" type="checkbox"/> sliderSpanSP	36	Analog
<input checked="" type="checkbox"/> NET_ShedPercent	40	Analog
<input checked="" type="checkbox"/> unitConfig	42	Analog
<input checked="" type="checkbox"/> occCmd	63	Analog
<input checked="" type="checkbox"/> supplyAirSP	80	Analog

Tuning Graphs in AeroCT

Name	Description
Counter	
Tuning Example	

Buttons: Add, Edit, Delete, OK, Cancel

SETPOINTS TO CONFIGURE

The list at the top of the AeroCT configuration dialog shows all of the BACnet exposed Setpoints in the strategy.

By default, all BACnet exposed Setpoints in the strategy are set to be configurable in the AeroCT application. However, you can select a subset of Setpoints to be configurable in the AeroCT application by unchecking the box beside any setpoint that should not be visible in AeroCT.

This list supports multiple selection to easily check/uncheck groups of Setpoints.

TUNING GRAPHS

The second list in the AeroCT configuration dialog shows Tuning Graphs that can be viewed in the AeroCT application. The Description field will show if there's any issues detected with the Tuning Graph.

To define a Tuning Graph, click the Add button. This will open the Add AeroCT Tuning Graph dialog.

Add AeroCT Tuning Graph

Name:

Points to Graph in AeroCT (0/10)

Name	Number	Type
<input type="checkbox"/> StrategyVersion	2	Analog Virtual
<input type="checkbox"/> CBTStat_Temp	43	Analog Virtual
<input type="checkbox"/> CBTStat_Humidity	44	Analog Virtual
<input type="checkbox"/> CBTStat_HeatingSP	45	Analog Virtual
<input type="checkbox"/> CBTStat_CoolingSP	46	Analog Virtual
<input type="checkbox"/> activeCoolSP	49	Analog Virtual
<input type="checkbox"/> activeHeatSP	50	Analog Virtual
<input type="checkbox"/> zoneTemp	61	Analog Virtual
<input type="checkbox"/> fanRuntime	68	Analog Virtual

Setpoints to Configure in AeroCT

Name	Number	Type	Description
<input type="checkbox"/> inputConfig	1	Analog	
<input type="checkbox"/> zoneSP	3	Analog	
<input type="checkbox"/> occSPDeadband	4	Analog	
<input type="checkbox"/> unoccSPDeadband	21	Analog	
<input type="checkbox"/> standbyOffsetSP	28	Analog	
<input type="checkbox"/> sliderSpanSP	36	Analog	
<input type="checkbox"/> NET_ShedPercent	40	Analog	
<input type="checkbox"/> unitConfig	42	Analog	

Buttons: OK, Cancel

The **Add AeroCT Tuning Graph** dialog lists all BACnet exposed Virtual and Hardware points in the strategy. Up to 10 Points can be selected to Graph in the **AeroCT** application

The second list in the **Add AeroCT Tuning Graph** dialog shows the BACnet exposed Setpoints in the strategy. Select any Setpoints that will be configurable for this Tuning Graph. You can also add a short description to each Setpoint that will be visible in the **AeroCT** app.

All Tuning Graphs require a name, which must be set in the **Name** box at the top of the **Add AeroCT Tuning Graph** dialog.

When the **Tuning Graph** is configured, click **OK** to close the **Add AeroCT Tuning Graph** dialog and return to the **AeroCT configuration** dialog

When all required points and setpoints have been selected, click **OK** to close the **AeroCT configuration** dialog.

To send the **AeroCT** configuration to the controller, carry out a Strategy Download.

RESOLVED ISSUES

- ST-9573 Removed networkID from IPNetwork entries in data exported to **ASPECT**.
- ST-9592 Fixed issue in keypad builder where incorrect point & field controller addresses could be displayed for items previously added to the menu structure.
- ST-9604 Fixed issue when scanning Hardware Points in **Datalog Manager**.
- ST-9255 Fixed issue with **Download dialog** appearing to go non-responsive when comparing FBXi strategy.
- ST-9312 Fixed issue with **CXproHD** appearing to go non-responsive during a batch operation.
- ST-9594 Improved the performance of **strategy scan**.
- ST-9612 Disallowed concurrent **save strategy** processes.
- ST-9612 Point names are now auto refreshed on the strategy and in the properties when updated via the **BACnet Points** window.
- ST-9566 Default **Modbus Router name** is supplied upon read, if empty.
- ST-9720 Fixed **Trendlog name** change not saving correctly from **Database Interface**.
- ST-9805 Fixed issue where simulation was crashing when a BACnet broadcast RX\TX module was used
- ST-9752 Added check if strategy exceeds firmware limits during **Full Download**.
- ST-9789 The batch download now has a flag to indicate whether to wipe BACnet schedule time or not.
- ST-9438 The HTTPS port can no longer be set to zero.
- ST-9386 Explorer dialog now shows discovered device MAC Address if configured address is different. Added legend to Explorer dialog to show what colors in device list represent.
- ST-9386 Improved how **Site Discovery** handles devices that have different MAC Addresses than the **CXproHD** configured values. Display the discovered MAC Address in the device list. If user clicks **OK**, **Discovery** will update the configuration with the discovered MAC Address, which matches the way we handle changes in Commissioning.
- ST-9325 Fixed issue where it was possible to multi-click on the send & receive buttons on the time and setup dialogs.
- ST-9495 Router IP Address is now updated when connecting and checking for Smart Routers.
- ST-9388 Handle errors initialising BACnet communications if the BACnet port is being used by an-other application.
- ST-9495 Update IP Address of router when downloading **SiteGuide** and checking for Smart Router.
- ST-9339 Fixed issue where deleting a strategy module didn't remove all destination connectors linked to it.
- ST-9070 Fixed issue with **Upload dialog** and **Progress dialog** not showing correctly during a compare.
- ST-9433 Updated **FW upgrade** dialog to show remaining time for each task.
- ST-9861 Fixed issue where opening the BACnet details dialog caused a crash when an **FBXi** was selected.

ST-9464 Fixed issue which prevented UniPut copy/paste from FBXi strategy to FBVi

ST-9863 Fixed issue with commissioning FBTi and FBXi-x48 controllers

ST-9473 Improved how CXpro^{HD} checks for Smart Routers

- Do check for Smart Routers before Download / Upload / Audit log - this will handle cases where Network or Site Configuration are incorrect
- For Download, if success do Full Download, if failure, do old download.
- For Upload / Audit Log, if success run Upload or get Audit Log, if failure, show error message to user.
- If Smart Router check fails when connecting to a site, show the error message in dialog with checkbox user can click to not display message again during the session.

Updated the Sample Apps to version 3.4.

Added support for upgrading firmware on an FBTi controller.

Fixed issue with Commissioning Devices getting stuck when requesting Serial Number.

Updated error message to include prompt to check Date when HTTPS connection refused.

Added support for downloading keypad file to Smart Routers via HTTPS.

Updated the FusionAir module to include parameters that allow user screen selection.

The CBV-2U4-3T and CBV-2U4-3T-N controllers now support 750 strategy blocks AND 750 points for firmware version 9.1.3 and above

The Firmware upgrade selection dialog now only shows the selected controller types

Added more FusionAir options to commissioning: Default Home Screen, ClockMode, Blacklight. These already have BLE, Commissioning Pincode and End user pincode.

Customer Impact

Customers wishing to commission controllers using the Aero^{CT} mobile app must update to v1.07.00 immediately.