

CBV-2U4-3T and CBV-2U4-3T-N Strategy rev2.1

Issue Date: 25 / February / 2020
 Product: CBV-2U4-3T-SI, CBV-2U4-3T-IMP, CBV-2U4-3T-N-SI, CBV-2U4-3T-N-IMP
 Product Version: 2.1

Summary

The **CBV-2U4-3T** and **CBV-2U4-3T-N** strategies have been updated to resolve several issues including Damper Adaption.

Background

This release is part of Cylon’s continuous-improvement policy.

Features and Installation

Resolved issues:

- Default value for [ElecHeatCFMTestStpt](#) set to 0. This will allow the controller to heat with either water or electric heat before setpoints are entered.
- Auto-save feature added for K-Factor. After balancing is finished, the K-factor will be saved back to [MeasuredFlow/K](#) and [KfactSelect](#) will be set to FALSE for K-Factor.
- [TABPriAirEffMinStpt](#) has been set as a BACnet® point.
- [PriAirFlowCV](#) linked to blocks regarding control of damper and heat control.
- [PriAirFlowCV](#) linked to fan sequence.
- Corrected link to enable **unoccupied override** with right arrow.
- Changed hardware inputs **UI1** and **UI3** set as 10K type III thermistors.
- The Damping threshold default setting has been changed from 50 to 0 to avoid jumping issues.
- [DamperAdaption](#) (BV 225) has been added, to access Damper Adaption through software.

Installation

As of **CXpro^{HD} v1.02**, pre-defined controller strategies are published as **Sample Applications**. To upgrade the strategies in existing **CBV-2U4-3T** and **CBV-2U4-3T-N** controllers to the latest release, download and install the updated **Sample Applications** library (v1.1) as described below.

This will provide the following **CBV** strategy versions:

Filename	Strategy Units	Controller	Strategy ID	Strategy Version
Sample Apps v1_1.imperial.cxb	Imperial	CBV-2U4-3T	10020901	2.1
		CBV-2U4-3T-N	10020801	2.1
Sample Apps v1_1.metric.cxb	SI	CBV-2U4-3T	10030901	2.1
		CBV-2U4-3T-N	10030801	2.1



Note: If the strategy is to be deployed on an existing site, then the K factor must first be saved in each VAV unit before the new strategy is downloaded.

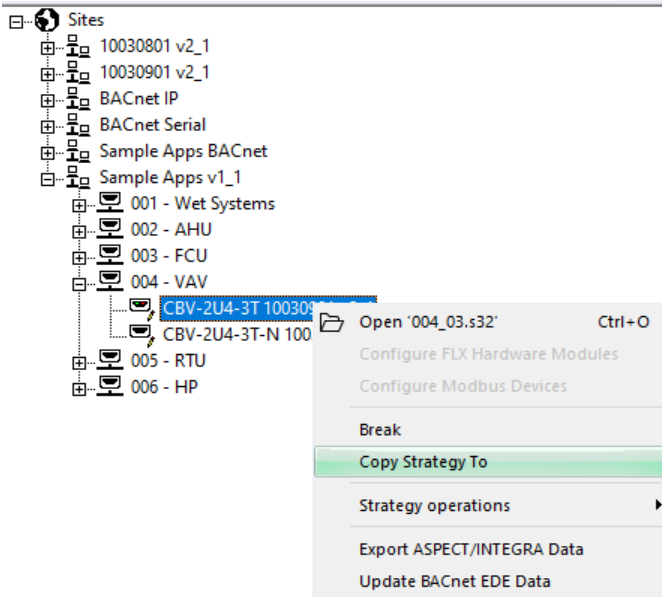
These steps should be followed before upgrading the firmware on the controller. The current released firmware is CBV_8.1.0 at the time of this bulletin. Although not required, it is best practices to upgrade to the latest firmware when possible.

To do this,

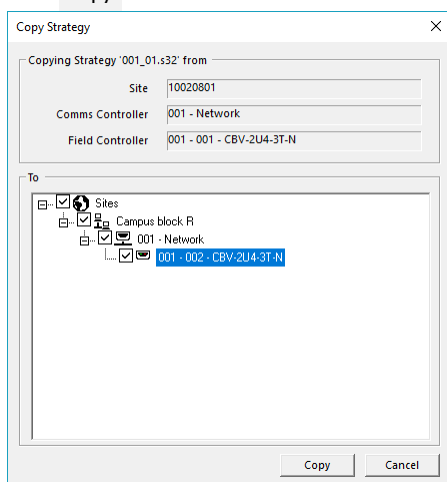
1. Record the KFactor from BACnet AV 215 and re-enter it into analog point 218 ([MeasuredFlow/K](#)).
2. Set binary point 204 ([KfactSelect](#)) to FALSE.
3. Upload setpoints from the controller to **CXpro^{HD}** and save the strategy before using **Site Organizer** to download the new strategy.

To upgrade existing **CBV-2U4-3T** and **CBV-2U4-3T-N** products,

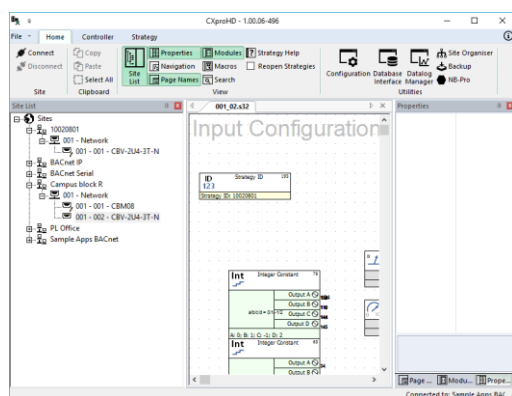
1. Download the backup file `Sample Apps v2_1 .CXB` file from the [Cylon Auto-Matrix Toolbox](#) (North America) or [support.cylon.com](#) (Europe/ROW).
2. Use the **Site Backup Utility** within **CXpro^{HD}** to restore the downloaded `.CXB` file. This will create a **Site** in **CXpro^{HD}** containing a single controller, in which the updated **Strategy** will be housed.
3. Right-click on the **controller** in the restored **Site**, and select **Copy Strategy To** :



- In the **Copy Strategy** dialog, select an installed controller of the same type as the restored controller, and click **Copy**



The updated **Strategy** will then be available for upload on the target controller.



Customer Impact

Customers will receive the updated **strategy** with all new **CBV-2U4-3T**, and **CBV-2U4-3T-N** controllers ordered, and it can also be download as part of an updated Sample Applications library from:

- North America see the [Cylon Auto-Matrix Toolbox](#).
- Europe/ROW see support.cylon.com on the **Unitary Controller Strategies** page in the **Software Download** section.

Contact support@cylon.com for further information.