

CBT, CBV & CBX 7.9.1 Firmware Update

Issue Date: 02 April 2019

Product: CBT-4T4-4T (CBT12, CBT12iVAV), CBT-3T6-5R,
CBV-2U4-3T, CBV-2U4-3T-N,
CBX-8R8, CBX-8R8H

Product Version: 7.9.1

Summary

The **CBT, CBV and CBX** range of controller firmware has been updated from 7.9.0 to 7.9.1, correcting several issues, including one that caused the controller to continuously restart.

Background

Several issues were identified and have been addressed by this Firmware update. These include the issue highlighted in *Cylon Bulletin 0423 : CBX Reboot-Loop issue*.

Features and Installation

The following issues have been addressed

SYSX-65: The controller could be caused to continuously restart, i.e. run ok for 30+ seconds then restart. This arose when the controller had been restarted (powered cycled) after running continuously for more than 24.8 days, whereby “service” data for the **Exponential filter** in the **Analog Input** IO block was saved when the IO block updated, but then not cleared on power-up/restart.

IO block data is saved not only when a **strategy** is downloaded, but also when the **BACnet** properties are updated (e.g. updating **out of service**, or **name properties** via **NBPro**). IO block data is also saved when an “overriding” process “times out”.

A **present value** update does not trigger a save.

The “service” data for exponential filter on **Analog Inputs** is now cleared at powerup.

SYSX-66: This update reverts the behavior/operation of the **Analog Gate** module when the **Switch Input** is not connected. When the **Switch Input** is not connected, the module’s **Output** had been changed to follow the value at **Input B** so that **strategies** with an unconnected **Switch Input** would have operated differently than on controllers with previous firmware.

The **strategy** can also be edited/updated to restore expected operation.

- SYSX-67:** This update fixes the operation of the **Rescale Custom** module, which did not work properly when the scaling was reversed.
- SYSX-53:** The controller could be put into an endless loop, triggered by a conflict between the device parsing a **BACnet Schedule** while simultaneously being asked to update an **Exception Schedule**. This condition occurred unnecessarily often as a result of a default setting in **ASPECT®** that causes **Exception Schedules** to be uploaded to each controller on a frequent interval - whether or not the **Exception Schedule** had changed.
- The controller now checks that an **Exception Schedule** has changed before saving its data.
- The schedule “ **Redistribution Interval** ” in **ASPECT®** can be set to zero to avoid this issue (see *Cylon Bulletin 0423*)
- SYSX-92:** Fixed issue where the **CBX** and **CBV** range of controllers restored the IO block setup following a power cycle after the controller had been wiped via **CXpro^{HD}**.
- SYSX-93:** An issue causing the **CBX** controller’s **Service Port (USB)** communications to be intermittent has been fixed. This could be seen when the **MS/TP** port was in use and trying to use the **Service Port**.
- Disconnecting the **MS/TP** port when using the **Service Port** would avoid this issue.
- BUGFCBT-118:** Fixed an issue with the **CBV** controller where it inadvertently exposed the **FLX** Firmware file via it **BACnet File** objects.

Customer Impact

Customers who have controllers on site at the start of installation/commissioning, or are using **CBT**, **CBV** or **CBX** products with **ASPECT®** to pushing schedules, should upgrade to this version of firmware as soon as is practical.