

## BACnet Firmware 7.6.9

Issue Date: May 11, 2016  
Product: CBM08, CBM12, CBM16,  
CBM24, CBT12, CBT12iVAV  
Product Version: 7.6.9

### Summary

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This firmware release fixes issues with Analog Input filters and Time Schedules, and enables controllers to access new macro functionality planned for the **Engineering Center (CEC) v7.00** release.

### Background

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In advance of the **CEC v7.00** release, new controllers will be updated with firmware that supports new **CEC v7.00** functionality. Also as part of Cylon's continuous-improvement policy, a number of reported issues will be addressed by the update.

### Installation

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Installation of the firmware can be performed through a BACnet File Transfer to the controller using the NB-Pro software. It is strongly recommended that a backup of the controller be secured prior to updating any controller firmware.

1. Perform a Device Discovery to locate the target devices.
2. Go to the *Utilities > Upload/Download* menu.
3. Select the controller you wish to upgrade the firmware for in the *Device* dropdown menu.
4. In the *Programs* list, select the "Application Firmware" file region.
5. Click the *Download-->* button to select the firmware file.
6. Once the firmware file has been selected, the firmware download will begin with the status displayed in the *Progress* bar.
7. Upon completion, additional controllers can be updated by repeating steps 3-6.
8. Close the Upload/Download window and perform a Device Discovery to verify that all controllers are communicating. If a controller does not respond, it may be necessary to plug directly into the unit via a serial cable and reload the firmware through terminal mode.

The included PRO files are used to organize the BACnet Objects when a controller is viewed in the NB-Pro software. In order to use the updated PRO files, simply copy them to the Engineering Units folder of your NB-Pro installation (Default location *C:\Program Files (x86)\American Auto-Matrix\NBPro\Engineering Units*).

# Features

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New modules have been added, and new options added to existing modules, which will be accessible from **CEC v7.00**. See **CECv7.00** bulletin (when released) for full details.

In addition, the following issues have been resolved:

- FCBM-34** The slow response of Analog Input filters has been corrected, so that the filter rise time now matches the Exp. Filter Constant parameter setting.
- FCBT-39**
- BACnet schedules now faithfully copy the first 2 occupied periods in any given day.
  - Exceptions, weekly schedules, wildcards, holidays, and non-zero schedule defaults are fully taken into account.
  - Unitron schedules that are meant to be “on all day” are now handled by putting a 24:00 in the second stop time.
  - Changes to the schedules and or calendars are now saved to flash only when a significant change has occurred. Downloading the same data as the existing data will no longer trigger a save.
  - To facilitate troubleshooting, linked Unitron schedules now take the name of their BACnet master schedule appended with “-weekday”.

# Customer Impact

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Customers affected by the Analog Input filter issue or the Time Schedule issue should upgrade to this release as soon as practical.

All new **CBM** and **CBT** controllers with this or later firmware will support the full range of **CEC v7.00** functionality. Customers can now, if they choose, upgrade sites to be ready to access that functionality when **CEC v7.00** is released.

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