Supervisory Control Platform

Update Advisory Supervisory Control Platform Firmware 2.18F03

A new general release version of the Supervisory Controller firmware version 2.18F03 has been released and is available for customer upgrade. For more information, visit the Supervisory Control page on the Copeland website:

https://www.copeland.com/en-us/products/controls-monitoring-systems/facility-controls-electronics/facility-and-system-controls/supervisory-controls-platform

Who Should Update

Copeland recommends that all customers upgrade their Supervisory Controllers and PCs running Connect+ to the latest version to take advantage of the latest fixes and enhancements listed in *Table 3 on page 3*.

All customers who use any of the features below are advised to upgrade to Supervisory Controller 2.18F03, and customers using any of the features listed in *Table 3 on page 3*.

Floorplans	Firmware update
ECB-VAV	Control Inventory
Breaker panels	Overrides
Subcooler	XR devices
Flexible Combiner	XM devices
Utility Monitoring	XM Circuit
Smart Alarming	Enhanced Condenser
Global Data	Peer Network
Alarms	Onboard IO
BACnet	Connect+

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CONNECT+ UPDATE REQUIRED

Table 1: Supervisory Controller and Connect+ Compatibility Matrix

Supervisory Controller Version	Minimum Connect+ Version Required
2.18F03	1.5.2

Supervisory Controller version 2.18F03 requires Connect+ 1.5.2 or greater. It is recommended the latest version of Connect+ be installed for best practices. If communication with Connect+ is required, upgrade Connect+ to the latest version first, then update the Supervisory Controllers. Contact Copeland for more information about upgrading.

CONTROLLER FIRMWARE COMPATIBILITY

Table 2: Firmware Platform Mapping

Firmware	Platform
E3_#.#####_ Display_Update	E3 only
E3_#.#####_ Firmware_Update	E3 and Site Supervisor
SS_#.#####_ Firmware_Update	Site Supervisor only

Please refer to the firmware chart below before performing an upgrade:

Update Supervisory Controller firmware

Firmware Update File	Supervisory controller firmware version													
	2.06F01	2.07F01	2.08F01	2.09F01	2.10F01	2.11F03	2.12F01	2.13F01	2.14F01	2.15F01	2.16F02	2.17F02	2.18F01	2.18F02
2.06F01_Firmware_Update	✓													
2.07F01_Firmware_Update	✓	✓												
2.08F01_Firmware_Update	✓	✓	✓											
2.09F01_Firmware_Update	✓	✓	✓	✓										
2.10F01_Firmware_Update	✓	✓	✓	✓	✓									
2.11F03_Firmware_Update	✓	✓	✓	✓	✓	✓								
2.12F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓							
2.13F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓						
2.14F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓					
2.15F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
2.16F02_Firmware_Update	RED	RED	RED	RED	RED	RED	✓	✓	✓	✓	✓			
2.17F02_Firmware_Update	RED	RED	RED	RED	RED	RED	✓	✓	✓	✓	✓	✓		
2.18F01_Firmware_Update	RED	RED	RED	RED	RED	RED	✓	✓	✓	✓	✓	✓	✓	
2.18F02_Firmware_Update	RED	RED	RED	RED	RED	RED	✓	✓	✓	✓	✓	✓	✓	✓

Legend

✓	This version of Supervisory controller can upgrade using this version of firmware update file
RED	This version of Supervisory controller can **NOT** upgrade using this version of firmware update file
Yellow (blank)	It is **NOT** recommended to downgrade Supervisory controller firmware

Workaround and Notes

1) For example, in order to upgrade Supervisory controller from 2.10F01 to 2.18F02, you must first upgrade to any version of 2.12F01 – 2.15F01, then upgrade to 2.18F02.
2) If firmware is equal to 2.12F01 or above: Upgrade to 2.18F02 directly
3) If firmware is below 2.12F01: First upgrade to 2.15F01 and the upgrade to 2.18F02.
4) 2.11F01, 2.11F02 and 2.16F01 Firmware_Update files should be not used.
5) If Supervisory controller is below 2.08F01 and model is default SMF, you must upload the Feature Set file, then upgrade firmware.

Table 3: Supervisory Controller 2.18F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.18F03
Features	
Layout Manager Improvements ➢ Added the ability to save graph points by allowing the admin to select the points to be displayed in the graph view in the layout editor, and save them so that they are displayed each time the view is shown. ➢ Removed the tabs and ability to change the points in layout view.	✔
Eaton Breaker Panel ➢ The Supervisory Controller now supports the Eaton Breaker Panel as a licensed native device.	✔
Square D Breaker Panel ➢ The Supervisory Controller now supports the Square D Breaker Panel as a licensed native device.	✔
CANBus ➢ Added delay for CANBus offline alarms in System Settings.	✔
DHCP ➢ Corrected Host Name update to work with DHCP.	✔
Fixes	
Floorplans ➢ If a GSMeter's left bar is repositioned by dragging, the corresponding points' value displays correctly in other widgets. ➢ E2 points now display for "GsAppSummaryTable" in a peer network. ➢ E3 - Dragging function is now functional for GsMeter/GsSlider widget on the E3 touchscreen. ➢ GSPushButton widget on the Supervisory Controller now displays the same as in Connect+. ➢ GsTable - All points in the widget are now displayed if the first point cannot be found. ➢ Newly added application's points in a peer network are now displayed in the floorplan without having to first display the application on the System Summary screen. ➢ For peered Supervisory Controllers and E2, if the Supervisory Controller does not have a Site Aggregator license, the message "Site Aggregator is required to view E2 points" will display. ➢ GsPercentBar - The GsPercentBar widget point value of 0 will display as 0% instead of "∗∗∗". ➢ GsZone - The visibility qualifier rule now works for the GsZone widget. ➢ iPad - Floorplan now renders to the correct screen size. ➢ Links work correctly when jumping to floorplans at a different level. ➢ Floorplan with points from the Alarm Communication application jumps to the Alarm Communication page correctly. ➢ The point status is now updated for the following widgets: "GsGraphBar" and "GsPercentBar" if the status is changed. ➢ The high and low lines are no longer missing when configuring GsGraphbar widget high and low values with a fixed value. ➢ Floorplans with "Unit Num" (Unit Number) as a point will not cause the System Values screen to hang.	✔
Subcooler ➢ Corrected refrigerant type handling in the Supervisory Controller.	✔

Table 3: Supervisory Controller 2.18F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.18F03
Fixes	
Alarm ➢ For ISD, Discus, and CoreSense Comm a reset command can now be sent to the device when an alarm advisory is reset. ➢ Smart Alarming - The maximum size for a monitoring app has been corrected for all applications.	✔
ECB-VAV ➢ Device status now displays as No Port when not commissioned. ➢ The input OCCUPANCY_CMD can now be sent to the device.	✔
BACnet ➢ Third party BACnet devices will not go offline after upgrading the Supervisory Controller firmware.	✔
XM678D_28 ➢ On the Alarm Cfg tab, the Temperature Alarm Hysteresis (Temp Alarm Hyst) parameter can be set to the minimum value by clicking the minus button.	✔
XR35CX & XR75CX ➢ MODE (heat/cool) parameter has been added to the to the ADF to match the E2 description file (.dsc)	✔
XR75CX CD ➢ "Refrigeration" and "Defrost" icons will not display as ON at the same time on the System Summary screen's tile and the detail screen.	✔
E3 Firmware Update ➢ During the upgrade firmware process the firmware will not automatically apply. It will apply when the "Apply" button is clicked.	✔
Firmware Update ➢ The firmware upgrade transfer progress bar now progresses correctly when remotely upgrading firmware of a Supervisory Controller that is behind a proxy server.	✔
Expanded Information ➢ After upgrading firmware, previously entered "Expanded Information" configuration is still visible.	✔
Enhanced Condenser ➢ On the Inputs tab, the Ambient Temperature (AMB TEMP IN) input parameter now displays when the General tab's "Setpoint Reset" parameter is set to ON.	✔
System ➢ Peer Time Sync - Now handles daylight savings time correctly. ➢ Supervisory Controller time shown on graphs/ logs in Connect+ is 1 hour delayed compared to the graph/logs in the Supervisory Controller via terminal mode. ➢ When logging into the Supervisory Controller, only up to 24 characters can be entered for user names to prevent the Supervisory Controller from rebooting. ➢ On the E3 display, for the Cleanout screen "Password" field, the onscreen keyboard now displays correctly.	✔

Table 3: Supervisory Controller 2.18F03 Feature and Fix Matrix

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Fixes	
Onboard IO ➢ Read Data failed alarm will no longer occur for inputs that are not setup. ➢ Relays will not turn ON and OFF when restarting the Supervisory Controller.	✔
XM679K 4.2 ➢ On the Defrost tab, the Defrost Minimum Differential (Defr Min Diff) parameter range is now correct as 0.1 to 50 for Celsius and 1 to 90 for Fahrenheit.	✔
Flexible Combiner ➢ Equations with a colon can now be saved.	✔
Restore ➢ Supervisory Controller will not continuously reboot if backup file is corrupted. Error message "Restore file verify failed, please make sure the file correct" will display. ➢ The restore process will complete normally if the path length of the setpoint file being restored exceeds approximately 260 characters.	✔
Audit Log ➢ In the Audit Log, the ACCESSED FROM field now displays "Connect+" instead of "Site Manager". ➢ Applications deleted via Connect+ are now recorded in the Supervisory Controller Audit Log.	✔

E2 to Supervisory Controller Restore
➢ XM Circuits minutes and hours are now converting correctly.
➢ Case Control minutes and hours are now converting correctly.
➢ Flex Combiner - Flex Combiner equations with colons are now converting correctly.
➢ Discharge Air Controller (DAC) - DAC parameters are now converting correctly.
➢ The following device address are now converting correctly:
  • CoreSense Discus
  • CoreSense ISD 2.0
  • CoreSense K5 Scroll (Large Ref Scroll)
  • CT Drive
  • CoreSense Comm
➢ Wireless Gateway - Parameters are now converting correctly.
	✔

SOAP ➢ Added time span limit in SOAP module for 3 days.	✔
Feature Set ➢ USB and SD Card are now options to be selected on the Feature File Upload screen.	✔
Control Inventory ➢ For a Supervisory Controller that does not have a feature set, the control inventory screen will not be blank when upgrading firmware via USB.	✔
Utility Monitoring ➢ The Engineering Unit for KW/W is calculated correctly when sent to Connect+. ➢ For the utility monitoring daily log, 12:00am in the Supervisory Controller now works the same as it does in the E2 in which the current day's log will be recorded at the current day's 12:00am.	✔

Table 3: Supervisory Controller 2.18F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.18F03
Fixes	
Network ➢ The warning message "RS485 communications could be interrupted if the IP address of ETH 1 is changed. Do you want to proceed?" will appear if ETH 1 IP Address is changed from the default 192.168.1.250 ➢ Network Settings -The system no longer reboots when modifying the "ETH 0 Subnet Mask" from 255.255.255.0 to 255.255.0.0	✔
File Management ➢ If network issues occur during the file upload process for restore, install the ADF, feature file upload, and install floorplan, the warning message "Limited internet connectivity is detected at the destination site, retrying connection…" will display.	✔
Send To ➢ The "Save & Send To" button is now "OK & Send To" and displays in the bottom left of the Confirmation screen.	✔
Global Data ➢ Points data for Sunrise Time and Sunset Time displays correctly in the logging graph.	✔
Overrides ➢ Anti-sweat association of an output to an input, an override of the input value will also display for the output value. ➢ A clickable clock icon will display next to points that are in override to display the remaining override time. ➢ If an Engineering Unit is different between My Profile and Localization, the override value uses the My Profile Engineering Unit and keeps the same Engineering Unit after logging off and logging back on.	✔

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Visit our website at **copeland.com/en-us/products/controls-monitoring-systems** for the latest technical documentation and updates.

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