Supervisory Control Platform

Update Advisory Supervisory Control Platform Firmware 2.20F03

A new general release version of the Supervisory Controller firmware version 2.20F03 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

IMPORTANT:
- For E3 firmware upgrades, be sure to use the **_Display_Update** file.
- Reset or power cycle an upgraded E3 approximately 10 minutes after the upgrade is complete.

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 2*.

All customers who use any of the features below are advised to upgrade to Supervisory Controller 2.20F03, and customers using any of the features listed in *Table 3 on page 2*.

Square D Application	Alarm Communications Online Help
XM Circuit Application	R454C Refrigerant
MRLDS-450	IPX Devices
SOAP	Standard Circuit Application
System Restore	XC1000 Device
XM679 3.4 Online Help	Flex Combiner Application
XM678 2.8 Online Help	System Time Settings
BACnet	AHU Large Application

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CONNECT+ UPDATE RECOMMENDED

Table 1: Supervisory Controller and Connect+ Compatibility Matrix

Supervisory Controller Version	Recommended Connect+ Version
2.20F03	1.5.4F01

It is recommended to upgrade to the latest Connect+ version. If you plan to upgrade Supervisory Controllers and Connect+ at the same time, 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

Table 3: Supervisory Controller 2.20F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.20F03
Features	
Square D Application ➢ Maximum allowed devices increased from 8 to 16.	✔
Security ➢ General enhancements.	✔
ECT Modbus ➢ Communication Stats section is now added to ECT Modbus Devices, such as Copeland Discus, CoreSense, and others.	✔
Firmware Upgrade - Backup/Restore ➢ A Site Supervisor or E3 configured as the site aggregator can now initiate firmware updates, backups, and restore backup files for E2 Controllers.	✔
Onboard IO Digital Input Active State (Site Supervisor only) ➢ Active state parameters for Onboard I/O, are now user configurable.	✔
AHU Air Handlers ➢ Enhancements to the Air Handlers application, including Dehumidify strategies, minimum off time for cooling and dehumidification stages.	✔

Table 3: Supervisory Controller 2.20F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.20F03
Fixes	
Static Route IP ➢ The controller no longer needs to be rebooted when a USB stick is plugged in with the delete_static_route file removed.	✔
XM Circuit Application ➢ The Mix Pct association was removed for all XM/XR devices when associated with an XM Circuit.	✔
Floorplans ➢ Customer Floorplans no longer show an error with the text "Standard Circuits Graphical Status does not exist." ➢ Points value and status are now displayed correctly after overriding an E2 point that cannot be overridden.	✔
SOAP ➢ The interface SetPointValue is now functioning properly.	✔

Online Help
➢ **XM679 3.4**
  • General help enhancements and Min/Max values are now correct.
➢ **XM678 2.8**
  • Help added for parameters that were missing definitions.
➢ **Alarm Communications**
  • Help support added.
	✔

BACnet ➢ BACnet IP Broadcast is now supported.	✔
MODBUS Calculator ➢ If some of the devices are Unknown in the MODBUS Calculator, it can now be determined if there is an overload of devices in the Site Supervisor configuration.	✔
IPX Devices ➢ The IPX device AI Inputs' values are no longer empty after changing CfgAI type from NTC to Digital Input when these IPX devices are Offline.	✔
Standard Circuit Application ➢ The start defrost cycle for the second circuit is now automatically scheduled to add 30 minutes after the start defrost cycle of the first circuit, when two circuits are the same case type.	✔
MRLDS-450 Application ➢ Sending the Application Command "Clear Calibration Command" will no longer result in an error.	✔
XC1000 Device ➢ The Site Supervisor parameter is no longer read from the device when CfgSyn Action is set to Write to Device.	✔
Flex Combiner Application ➢ Flex Combiner auto association now allows users to enter a colon "**:**" in the Description field manually.	✔

Table 3: Supervisory Controller 2.20F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.20F03
Fixes	
Controller Offline (E3 Controller Only) ➢ General code enhancements applied to reduce the probability of having to power cycle the controller.	✔
System Time Settings ➢ The order of the Time Zone and Time Setting fields has been reversed so that the Time Zone field now appears first. ➢ System Time is now displayed when NTP is Enabled.	✔
Refrigerant Support ➢ R454C supported added.	✔
Restore ➢ UltraSite to Site Supervisor and E3 • The "+" is no longer missing in the Flexible Combiner's equation after restoring the .003 file to Site Supervisor. • AHU Large parameters are now restoring correctly. • Analog Sensor Control parameters are now restoring correctly. ➢ USB & SD Card • The progress bar is no longer showing 0% during file upload when restoring the setpoint file from a USB and SD card. ➢ System • Restore verification will no longer fail when attaching customer setpoints.	✔

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	2.18F03	2.19F01 and higher
	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	🟥	🟥	🟥	🟥	🟥	🟥	✔	✔	✔	✔	✔			
	2.17F02_Firmware_Update	🟥	🟥	🟥	🟥	🟥	🟥	✔	✔	✔	✔	✔	✔		
	2.18F03_Firmware_Update	🟥	🟥	🟥	🟥	🟥	🟥	✔	✔	✔	✔	✔	✔	✔	
	2.19F01 and higher	🟥	🟥	🟥	🟥	🟥	🟥	✔	✔	✔	✔	✔	✔	✔	✔

Legend

✔	This version of Supervisory controller can upgrade using this version of firmware update file.
🟥	This version of Supervisory controller can **NOT** upgrade using this version of firmware update file.
🟨	It is **NOT** recommended to downgrade Supervisory controller firmware.

Workaround and Notes
1) For example, in order to upgrade Supervisory controllers from 2.10F01 to 2.20F03, you must first upgrade to any version of 2.12F01 – 2.15F01, then upgrade to 2.20F03 or higher.
2) If firmware is equal to 2.12F01 or above: Upgrade directly to 2.20F03 or higher.
3) If firmware is below 2.12F01: First upgrade to 2.15F01, and then upgrade to 2.20F03 or higher.
4) **2.11F01, 2.11F02 and 2.16F01 Firmware_Update files should be not used.**
5) If the Supervisory controller is below 2.08F01 and the model is default SMF, you must first upload the Feature Set file, then upgrade firmware.

For more information on firmware upgrades, see the 026-4184 Upgrade Advisory:

https://www.copeland.com/documents/026-4184-upgrade-advisory-for-all-supervisory-controller-versions-before-2-19f01-en-7981974.pdf

For more information on E3 firmware upgrades before 2.20F03, see the 026-4185 Upgrade Advisory:

https://www.copeland.com/documents/026-4185-upgrade-advisory-for-e3-controller-versions-below-2-20f03-en-8070726.pdf

Supported Browsers

- Microsoft Edge v88 and later
- Mozilla Firefox 11 and later
- Google Chrome 61.0 and later
- Apple Safari® on iOS10 (iPhone® 5C, iPad® 4) and later
- Webview on Android 5.0 (Samsung Galaxy S4) and later

For Copeland Digital Cold Chain Technical Support

- 833-409-7505
- ColdChain.TechnicalServices@Copeland.com

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

For Technical Support call **833-409-7505** or email **ColdChain.TechnicalServices@Copeland.com**

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