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Emerson 2.20F03 Update Advisory Supervisory Control Platform Firmware Instruction Manual

**Update Advisory Supervisory Control Platform
Firmware 2.20F03
Release Notes**

Contents

2.20F03 Update Advisory Supervisory Control Platform Firmware

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 Emerson website:
https://climate.emerson.com/en-us/products/controls-monitoring-systems/facility-controls-

IMPORTANT:

1. For E3 firmware upgrades, be sure to use the _Display_Update file.

2. Reset or power cycle an upgraded E3 approximately10 minutes after the upgrade is complete.

Figure 1 - E3 Controller

Who Should Update

Emerson 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.

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

Figure 2 - Site Supervisor Controller

Square D Application	Alarm Communications Online Help
XM Circuit Application	MODBUS Calculator
Floorplans	R454C Refrigerant
MRLDS-450	IPX Devices
SOAP	Standard Circuit Application
System Restore	XCl 000 Device
XM679 3.4 Online Help	Flex Combiner Application
XM678 2.8 Online Help	System Time Settings
BACnet	AHU Large Application

CONNECT+ UPDATE REQUIRED

Supervisory Controller Version	Minimum Connect+ Version Required
2.20F03	1.5.4F01

Table 1 – Supervisory Controller and Connect+ Compatibility Matrix

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 Emerson for more information about upgrading.

CONTROLLER FIRMWARE COMPATIBILITY

Firmware	Platform
E3_#.#####_ Display_Update	E3 only
E3_#.#####_ Firmware_Update	3 and Site Supervis
SS_#.#####_ Firmware_Update	Site Supervisor only

Table 2 – Firmware Platform Mapping

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 10 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

Feature and Fix Descriptions	Supported In Supervisory Controllers 2.20F03
Fixes	
Static Route IP > The controller no longer needs to be rebooted when a 1JSEI stick is plugged in with the delete_static_route file removed.	✓
XM Circuit Application > The Mix Pct association was removedf or all XM/XR devices when associated with an XM Circuit.	✓
Floorplans > Customer Floorplans nolonger 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 to when these are NTC Digital Input IPX devices Offline.	✓
Standard Circuit Application > The start defrost cycle for the second circuit is now automatically scheduled to add 3 0 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 CalibrationCommand-will no kInger result i n an error.	✓
XC1000 Device > The Site Supervisor parameter is no longer read from the device when CfgSyn Action is set to Write to Device.	✓

Table 3 – Supervisory Controller 2.20F03 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.20F03
Flex Combiner Application > Flex Combiner auto association now allows users to enter a colon':- in the Description field manually.	✓
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 Tine Zone field now appears first. > System Time is now displayed when NTP is Enabled.	✓
Refrigerant Support > R454C supported added.	✓
Restore •UltraSite toSite 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 058 and SD card. •System > Restore verification will no longer fail when attaching customer setpoints.	✓

Table 3 – Supervisory Controller 2.20F03 Feature and Fix Matrix

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
2.06F01_Firmware_Update	✓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.07F01_Firmware_Update	✓	✓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.08F01_Firmware_Update	✓	✓	✓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.09F01_Firmware_Update	✓	✓	✓	✓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.10F01_Firmware_Update	✓	✓	✓	✓	✓	Y	Y	Y	Y	Y	Y	Y	Y	Y
2.11F03_Firmware_Update	✓	✓	✓	✓	✓	✓	Y	Y	Y	Y	Y	Y	Y	Y
2.12F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	Y	Y	Y	Y	Y	Y	Y
2.13F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	Y	Y	Y	Y	Y	Y
2.14F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	Y	Y	Y	Y
2.15F01_Firmware_Update	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Y	Y	Y	Y
2.16F02_Firmware_Update	R	R	R	R	R	R	✓	✓	✓	✓	✓	Y	Y	Y
2.17F02_Firmware_Update	R	R	R	R	R	R	✓	✓	✓	✓	✓	✓	Y	Y
2.18F03_Firmware_Update	R	R	R	R	R	R	✓	✓	✓	✓	✓	✓	✓	Y
2.19F01_Firmware_Update	R	R	R	R	R	R	✓	✓	✓	✓	✓	✓	✓	✓

Legend:
- ✓ This version of Supervisory controller can upgrade using this version of firmware update file
- R (red) This version of Supervisory controller can NOT upgrade using this version of firmware update file
- Y (yellow) 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 2.19F01, you must first upgrade to any version of 2.12F01 – 2.15F01, then upgrade to 2.19F01.
2) If firmware is equal to 2.12F01 or above: Upgrade to 2.19F01 directly.
3) If firmware is below 2.12F01: First upgrade to 2.15F01 and then upgrade to 2.19F01.
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.

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

https://climate.emerson.com/documents/026-4184-upgrade-advisory-for-all-supervisory-controller-versions-before-2-19f01-en7981974.pdf

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

https://climate.emerson.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

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https://climate.emerson.com/en-us/products/controls-monitoring-systems/facility-controls-electronics/facility-and-system-controls/lumity-supervisory-controls-platform

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2.20F03, 2.20F03 Update Advisory Supervisory Control Platform Firmware, Update Advisory Supervisory Control Platform Firmware, Supervisory Control Platform Firmware, Control Platform Firmware, Platform Firmware

References

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- 🔖 **Copeland Worldwide | Copeland US**
- Ⓒ **Controls & Monitoring Systems | Copeland US**
- Ⓒ **Lumity Supervisory Control Platform | Copeland US**

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