

Supervisory Controller Platform

Update Advisory E3 and Site Supervisor Firmware 2.23F01

A new general release version of the Supervisory controller firmware version 2.23F01 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!

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 the table below. All customers who use any of the features in the table below are advised to upgrade to Supervisory controller 2.23F01, and customers using any of the features listed in the matrix on pages 2-4.



Analog Combiner	Time Schedules
XM Circuit Application	Alarm Annunciation
MRLDS-250	Condenser
MRLDS-450	Enhanced Condenser
Licensing	Enhanced Suction
Online Help	Air Handlers (AHU)
Sensors	M400 VFD
Connect+	Alarms
CO ₂	Facility Status Display (FSD)
MultiFlex Boards	

CONNECT+ UPDATE RECOMMENDED

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.

Supervisory Controller and Connect+ Compatibility Matrix

Supervisory Controller Version	Recommended Connect+ Version
2.23F01	1.5.6F01

CONTROLLER FIRMWARE COMPATIBILITY

Firmware Platform Mapping

Firmware	Platform
E3_#.#####_Display_Update	E3 only
E3_#.#####_Firmware_Update	E3 and Site Supervisor
SS_#.#####_Firmware_Update	Site Supervisor only

Supervisory Controller 2.23F01 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.23F01
Features	
Points with Alarms	✓
<ul style="list-style-type: none"> Any points in an application that are in an alarm state will display, regardless of whether or not they are typically displayed in the tile. 	
Enhanced Condenser Enhancement	✓
<ul style="list-style-type: none"> Location of the CURRENT CAP IN parameter is now located in the General tab. 	
CO2 Application - Variable Speed (VS) Stages	✓
<ul style="list-style-type: none"> Smart ramping of VS stages has been added for more precise control of suction pressures. When bringing on a fixed compressor, the VS compressor is ramped down to avoid a surge in suction pressure. 	
Facility Status Display (FSD) Settings	✓
<ul style="list-style-type: none"> Audio Relay Snooze time and Audio Relay Disabled settings are now visible exclusively to FSD controllers and excluded from non-FSD controllers. 	
XM Circuit - Dual Product Temp Enable	✓
<ul style="list-style-type: none"> Support added for reading multiple product simulators per case, which enables monitoring of dual product temps per case without the use of Analog Combiners. 	
M400 VFD	✓
<ul style="list-style-type: none"> All devices for BACnet ETH1 and ETH0 are displayed when BACnet ETH1 AUX is enabled. 	
MultiFlex Boards	✓
<ul style="list-style-type: none"> 5K thermistors can now be read on MultiFlex boards. 	

Supervisory Controller 2.23F01 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.23F01
Fixes	
Analog Combiner <ul style="list-style-type: none"> ➤ When a value is overridden and pointed to the input of an Analog Combiner, the overridden value of the Analog Combiner input will now be retained after a reboot. 	✓
Inputs <ul style="list-style-type: none"> ➤ When any type of input in the Supervisor is set as "Mixed Temp," the "MIXED AIR TEMP" in Local Ins will now display. 	✓
Connect+ <ul style="list-style-type: none"> ➤ Refresh applications on Connect+ will no longer return a 503 response. 	✓
File Management and Licensing <ul style="list-style-type: none"> ➤ Copy to Clipboard icon and function added next to the MAC address on the File Management and Licensing screen. 	✓
Online Help <ul style="list-style-type: none"> ➤ General enhancements for multiple applications. 	✓
MRLDS-250 <ul style="list-style-type: none"> ➤ Sensor Gas Type property added. 	✓
MRLDS-450 <ul style="list-style-type: none"> ➤ Sensor Gas Type property added. 	✓
Solar Time <ul style="list-style-type: none"> ➤ Sundown TSCOS and TUCOS are now being calculated properly. 	✓
System Restore <ul style="list-style-type: none"> ➤ The Site Supervisor and E3 units' current value of the "Monitoring Port" property is now retained during the Restore process, same as the IP address. 	✓
Security <ul style="list-style-type: none"> ➤ General enhancements. 	✓
Alarm Annunciation <ul style="list-style-type: none"> ➤ Alarms reset on the Annunciator no longer reappear on the Annunciator. 	✓
Mixed Air Temperature <ul style="list-style-type: none"> ➤ Now showing in the system. 	✓
Com Ports <ul style="list-style-type: none"> ➤ Increased bandwidth. 	✓
UI <ul style="list-style-type: none"> ➤ Controller unit name now appears in the footer of the screen. 	✓
Air Handlers (AHU) <ul style="list-style-type: none"> ➤ "Differential Limit Exceeded" alarm now displays a value in the "Additional points with Alarms" section of the AHU Status tab. 	✓
Monitoring <ul style="list-style-type: none"> ➤ Audit log tracking of changes added to all Monitoring Configuration parameters. 	✓

Supervisory Controller 2.23F01 Feature and Fix Matrix

Features and Fix Descriptions	Supported in Supervisory Controllers 2.23F01
Fixes continued	
Communication <ul style="list-style-type: none">➤ Missed communications have been fixed for Site Supervisors.➤ Site Supervisor time is now syncing properly with the NTP Server.	✓
Alarm Notice <ul style="list-style-type: none">➤ Now supported on the Status tab.	✓
XM Circuit <ul style="list-style-type: none">➤ "Dly After Defrost" is now functioning properly.	✓
E3 Physical I/O Status <ul style="list-style-type: none">➤ E3 will no longer become unresponsive when navigating to Physical I/O status from higher usage controllers.	✓

Resource Links for Upgrading 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-en8070726.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

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