

Monitoring Release Note



Ellab Monitoring Solutions

EMSuite 1.5.3

Status: Released

Date: 29Jun2026

EMSuite

Special Projects:

- **Advanced Cleanroom Capabilities**
 - **Light Tower Implementation: Phase 1: EM-2199, EM-742, EM-2453**
 - New: Connect approved light tower with Modbus TCP-IP to EMSuite via Ellab Connect. Soft PLC will be used to select a zone and/or channels in which will trigger the alarm based on the alarm templates the channel(s) have been configured for threshold alarms.
 - The light tower will have 5 lights.
 - Blue: No alarm templates applied
 - Green: Alarm templates applied, no alarms
 - Yellow (Flashing): All warnings / Minor alarms
 - Orange (Flashing): Major Alarms
 - Red (Flashing): Critical Alarms
 - **Ellab Connect: Multi-Site Capability.**
 - Improved: Ability to have multiple instances of Ellab Connect reporting to a single instance of EMSuite. EM-2199, EM-1218

Sites: N/A

Dashboards: N/A

Reports:

- **General**
 - Improved: Report localization consistency across languages and formats. EM-1267, EM-2661
 - Improved: The button for removing channels from an existing report module will be consistently visible. EM-1983, EM-2688
- **Modules**
 - New: Calibration Due Report. EM-796, EM-1140, EM-2235
 - Report which provides calibrations coming due within a defined period of time.
 - Improved: Latest Channel Adjustment. EM-1256, EM-2311
 - Improved: Calibration History Report (formerly Latest Channel Adjustment Report).
 - Improved functions. Report with configurable filters, time periods, and entry types to pull all historical channel calibration types (verifications, adjustments), and data entries (automatic, manual)

in relation to particular channels within that specific EMSuite instance.

- Improved: Electronic Certificates.
 - Added Channel Serial Number in calibration & verification results. EM-796, EM-2505
- New: Channel Summary Report. EM-1737, EM-1606
 - Select Channel(s), and Timeframe
 - Channel information: Color, ID, Name, Serial Number, Measurement Type, Setpoint
 - Thresholds from Alarm Templates
 - Graph
 - Statistics: Maximum, Minimum, Mean (average)
 - Out of Tolerance: Count, duration
- Improved: Alarm Summary Report.
 - Added calibration due date as option. EM-2356, EM-2567
- Improved: Technical Alarm Template Report
 - Added Calibration Due Date categories. EM-2356, EM-2565

SoftPLC: N/A

Alarms:

- Improved: History. EM-795, EM-1191, EM-2068, EM-2098
 - Providing additional information. Alarm triggered at, threshold exceeded, threshold value, alarm condition ended, duration, statistics (duration, min/max, average/mean).
- New: One Click Alarm Summary Report. EM-795, EM-1192, EM-2098
 - Add the ability to run a 1-click alarm summary report directly from the Alarm History Table.
- Improved: Report button EM-795, EM-1192, EM-2099
 - Report button has been improved. Ability to select report options with ability to create PDF, save to Report Folder, and Send Report to people.
- Improved: Details. EM-1193, EM-2018
 - In the columns for Site, Severity, Operation Mode, and Source a drop down will provide a list of available options to choose from.
 - Column added for Duration.
- New: Calibration warnings and alarms. EM-2356, EM-2360
 - Visible within Alarm Table.

Audit Trail: N/A

Calibration: N/A

Control Center:

- **System Settings**

- **Units & Resolution**

- Improved: Allow resolution as whole number without decimals for larger measurement ranges. EM-1267, EM-2734

- **Security**

- Improved: Security page look/feel updated. EM-1267, EM-2339
 - Improved: Improved differentiation between SSO providers to allow seamless switching. EM-1267, EM-2069
 - Improved: SSO / Entra user filtering enhanced for better visibility and user selection accuracy. EM-2677

- **Notification**

- Adjusted: Calibration due removed from Notification area since it is now located in the Technical Alarms area. EM-2356, EM-2364

- **Users & Roles**

- New: Ability to assign those that can interact with Calibration Due dates. EM-2356, EM-2363

- **Hardware**

- **Channel Configuration**

- **Channel Overview**

- New: User ability to adjust calibration, calibration due date, and ability to set sensors to not require calibration. EM-2356, EM-1139, EM-2357
 - New: User ability to adjust calibration cycle. EM-2356, EM-2680
 - Improved: Channel ID added to sensor serial number. Users can now see serial number with numerator after to know exactly which channel is to be identified. EM-2589, EM-2566

- **Transmitters**

- **General**

- Improved: Continuous Session: If there is a battery interruption (E.g. battery change) the transmitter will continue collecting and transmitting data regardless of whether a new/existing battery option has been selected on the transmitter. EM-1561, EM-564 / TVP-43
 - Improved: Continuous Session. Re-entry handling, sensor reconnections, and multi-sensor setups. TVP-633, TVP-639, TVP-626, TVP-677, TVP-643

- Improved: Automatic adjustments when switching from standard sensor to the new 4-channel temperature sensor. EM-2589, EM-2620
- **PoE Transmitters**
- **Access Points**
 - Improved: Ability to update Access Point network configuration remotely. EM-772, EM-2467
- **Alarm Settings:**
 - **Channel Alarm Template**
 - Improved: Door Sensor alarm template. Increased the quantity of thresholds that can be added. EM-1976, EM-1225
 - Improved: Deadband option now included in initial Add Threshold pop-up. EM-1267, EM-1597
 - Improved: Calculated Channel alarm optimizing. EM-1267, EM-2633
 - **Technical Alarm Template**
 - New: Calibration Alarms.
 - Added ability to create email notifications for calibrations coming due (Warning), and for calibrations past due (Alarm). EM-2356, EM-2358, EM-2359, EM-2500
 - **Notification Templates**
 - Improved: Create failsafe to prevent users without phone number & country Code from being added to SMS / Voice Call Notification Templates. EM-1983, EM-2712
 - **Action Card Templates**
 - Improved: Ability to change the order of action card steps manually. EM-766, EM-649
 - Improved: Transmitters tab renamed to Devices. Particle Counters are now available to select from the Action Card > Device list. EM-766, EM-2693

Firmware

- Transmitters: General
 - Improved: Single looped session for data continuity. EM-1561, TVP-43, EM-564
 - Improved: Added validation and limits for sampling rates to prevent overload and ensure stable multi-channel operation. TVP-725, TVP-702
 - Improved: transmission stability, spool-up handling, and change counter/NVM consistency to reduce data loss risks. TVP-686, TVP-642, TVP-644

- Improved: Added clearer error reporting for invalid sensor configurations such as unsupported sample rates. TVP-724
 - Improved: Aligned session and sensor configuration behavior, including decimals, calibration, and restored session settings. TVP-716
 - Improved: Introduced channel-level authorization indicators for clearer visibility of active EMSuite channels. TVP-712
 - Improved: Performance optimization through reduced ROM usage and improved GUI efficiency on transmitter hardware. TVP-685
- Transmitters: RF, RF-DC
 - Improved: Increased RF frequency options. TVP-52, TVP-229
- Transmitters: PoE
 - Improved: Validated system stability through large-scale PoE and continuous session testing under high-load conditions. TVP-705, TVP-706
 - Improved: Handling of sensor switching, multi-sensor scenarios, and protocol limitations. TVP-688, TVP-646, TVP-645
- Access Points:
 - Improved: Added ability to push Firmware via PoE. EM-1561, EM-562

Hardware

- New: 4-channel temperature sensor. System support for up to eight sensor channels, including drivers, configuration flow, and live/spool-up data handling. EM-2566, TVP-686, TVP-627, TVP-628, TVP-648, TVP-647, TVP-655
- New: Ellab RH/T Pro sensor. TVP-582
- New: DP V2 sensor. TVP-462

Mobile APP

- Improved: Log-in user experience. EMAPP-72
- Improved API reliability with retry logic and back-off handling for unstable network conditions. EMAPP-3, EMAPP-82, EMAPP-83, EMAPP-84, EMAPP-85, EMAPP-86
- Improved: Alarm clarity with updated terminology and metadata presentation. EMAPP-124, EMAPP-96
- Improved: Ensured compatibility of filter and alarm features with older EMSuite versions. EMAPP-92, EMAPP-129
- Improved: Added filter persistence to retain user selections across sessions. EMAPP-113
- Improved: Filter accessibility and UI placement for easier access. EMAPP-120
- Improved: Extended alarm filtering with site, zone, alarm type, and multi-select support. EMAPP-110, EMAPP-111

- Improved: Filter usability with better structure, accessibility, and search functionality. EMAPP-71, EMAPP-97, EMAPP-114, EMAPP-125, EMAPP-130, EMAPP-141
- Improved: Alarm list performance through optimized loading and dynamic data handling. EMAPP-6, EMAPP-75, EMAPP-88, EMAPP-89, EMAPP-90, EMAPP-91, EMAPP-92, EMAPP-115

TrackView Pro Customer Tool

- Improved: Updated with latest firmware.

Ellab Connect

- Improved: Ellab Connect Setup with clearer multi-device selection, Client ID visibility, status indicators, and permission-based access control. EM-2583

Manuals

- Updated: Software Manual
- Updated: Hardware Manual
 - Improved: Complete overhaul of TVP hardware manual with updated structure, removal of outdated content, improved grammar, standardized abbreviations, and refreshed illustrations for better clarity and usability. TVP-637 TVP-598