



ELLAB Monitoring Solutions

EMSuite 1.5.2

Status: Released

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EMSuite

Special Projects

- **Advanced cleanroom capabilities**
 - New: Display view. Create custom views that can be run on a smart television 24/7. EM-773
 - Single panel view with option of choosing one of the following: Channel List, Alarm List, Dashboard
 - New: Calculated channels. EM-1013
 - Value Difference. Create a calculated differential pressure by comparing two or more physical pressure / differential pressure channels. EM-544
 - Simple Moving Average. Create a calculation which calculates the average over a moving timeframe. EM-544
 - Air Changes Per Hour (ACH). ACH can be calculated when additional variables such as airflow and room volume are provided. EM-468
 - *Note: Calculated channels cannot be calibrated.
- **Extend Audit Trail Comments.** EM-763
 - New: Comment pop-up boxes on some user actions. The System Administrator can turn on this functionality. During specific actions, users will be presented with a text box to add comments.
- **Customer Twilio**
 - New: Customers will now have the ability to source and manage their own Twilio account with EMSuite. Max of 50,000 messages per month. EM-622

Dashboard > Main Dashboard

- **Site List**
 - Improved: Restricting dashboard site visibility and enable user-specific tile arrangement on Main Dashboard. EM-1451
- **Channel List**
 - Improved: On the channel list, if there is a circumstance in which a channel loses connection longer than the communication alarm, there will be an identifier next to the ‘Last Reading’ to make it clearer to a standard user that this has happened. When communication is re-established then a cycling icon will show to notify that backfilling is in process. EM-873
 - Improved: RF-DC units will now have an icon telling the user whether the unit has external power or not. EM-642
- **Channel List & Interactive Map**

- **Graph**
 - Improved: Graph zoom behavior updated to display a system message when all events across all data series are individually visible. EM-1911
 - Improved: Statistics will not automatically run when generating a graph to assist with graph loading times. A new button is added to Run statistics. EM-1028
 - Improved: Look and feel. The graph dashboard is now fully responsive to all screen sizes and orientations, ensuring that all data, labels, and margins remain clearly visible and consistently displayed across devices. EM-1474
 - Improved: Graphing. Graphs are limited to 1,200 points displayed. Due to this limit, improvements were made to display min/max threshold breaches. EM-1065

Custom Dashboards:

Reports:

- **General:**
 - Improved: The Chart modules in Manage Reports has been renamed to Graph for consistency across the platform. EM-1517
 - Improved: When creating reports, pop-up messages have been implemented to provide clear feedback when required inputs are missing. E.g. unselected criteria statistics or no channels selected. EM-454
- **Modules:**
 - New: Battery Report EM-1092/EM-1096/EM754
 - Transmitter ID, Transmitter Name. Battery Level (Percentage), Battery Change Date, Battery Age (in days).
 - New: Firmware Report EM-1092/EM-1096/EM754
 - Transmitter ID, Transmitter Name, Transmitter Type (RF, RF-DC, PoE), Firmware Version(s), Date Discovered.
 - Improved: Hardware Overview EM-1092/EM-1096/EM754
 - Battery level removed, since new Battery Report was created
 - Added transmitter type, Radio Conformance, Radio Channel
 - Added Access Point section with: Access Point ID, Site, Radio Frequency, Radio Channel
 - Improved: Alarm Summary Report EM-765/EM-1278/EM-1138
 - Currently shows start/stop. Will now have Duration calculated and shown.

- Thresholds will be more clearly defined whether they are rising/falling
- Reading will be replaced by Minimum / Maximum.
- Statistics for the alarm will be added. Minimum or Maximum depending on falling or rising alarm. Average reading for the duration of the alarm.
- Action cards (Completed/Not Completed) can be pulled into the report
- Alarm History Comments can be pulled into the report.
- Cleanroom Report:
 - Improved: Cleanroom Reports can now be generated even when Operation Mode is disabled, using all available data from the selected time period. When enabled, users can choose which Operation Modes to include in the report. EM-1038
- Workflow:
 - Improved: Previously when creating/editing a report and clicking Save as New Report or Save did not close the window automatically. This has been improved and after selection the window will close. EM-1698
 - Improved: Including Report name in Reports Folder. EM-464

Soft PLC

- Improved: Access Points without RF transmitters assigned to them can be utilized for Digital Output (DO). E.g., light beacon. EM-1523

Alarm Table:

- The user experience has improved. EM-765
 - Improved: Added column for location of the alarm. EM-735
 - Added column with Zone
 - Added sensor Serial Number to Source
 - Changed “Reading” to “Triggered at”
 - Improved: Added column for Threshold Type (Rising, Falling, Communication...etc.). EM-1137/EM-726

Audit Trail:

- Improved: Data load time. EM-1287

Calibration:

- Improved: Calibration pass criteria will now use the same decimal precision as the Measurement Type setting in System Settings. EM-2164

Interactive Map:

- **Global Map:**
 - Improved: View Options has been improved to incorporate check boxes for each option. “Show Device” button has been renamed to “Find Device”. EM-1306

Control Center:

- **System Settings:**
 - **Units and Resolution:**
 - Improved: Changing units or resolution now triggers a popup warning, especially when used by custom channels, to ensure accurate updates and avoid unintended changes. EM-1518
 - Improved: When switching between Units within a particular Measurement Type, Custom channel templates now automatically apply to the units defined in system settings. EM-1049/EM-1081
 - Improved: Creation of customer measurement type/unit within custom channel template pop-up. Will allow Users to add new Measurement Types and Units within System Settings. EM-1048/EM-1051
 - **Operation Mode:**
 - Improved: When switching Operation Modes, all existing Warnings and Alarms will be stopped. EM-1089/EM-1097
- **Users and Roles:**
 - Improved: Channel configuration now only shows the tabs and actions users are permitted to access, including calculated channels and templates, with updated permission names for clarity. EM-1118
 - Improved: Ability to disable auto-logout for a selected user. EM-1339, EM-1351
- **Alarm Settings**
 - **General**
 - Improved: Alarm supervision/oversight moved from transmitter to software control. EM-1089
 - **Channel Alarm Templates: EM-765**
 - Improved: Searching and sorting. EM-744
 - In search bar, added ability to search for Channel ID to find which template it is associated with.
 - Added the ability to sort Channel Alarm Templates.
 - Improved: Added ability to select calculated channel in alarm templates EM-559

- New: Channel alarms can be created for Particle Counter Channels. EM-1103/EM-1128
- Improved: Rate of Change Alarm. Added notification if any channels associated within the alarm template are not valid for this type of alarm. EM-779/EM-1422
- **Transmitter Alarm Templates:**
 - Improved: Name changed to Technical Alarm Templates. EM-938/EM-1521
 - Improved: Added communication alarm for particle counters. EM-938/EM-1467
- **Notification Templates:**
 - Improved: Ability to sort notification templates. EM-765 / EM-1073
 - Improved: Length of SMS messages has been adjusted to reduce the quantity of messages per alert. EM-2366
 - *Not all messages were able to be translated for this release, so some messages may be received in English. This will be resolved in the next release.
- **Action Card Templates:**
 - Improved: Previously called Name and Text, now changed to Title and Text. EM-1279
- **Hardware**
 - **Channel Configuration**
 - Improved: Alarm Test columns are now auto hidden when inactive, improving layout and saving space until an alarm test is running. EM-1448
 - Improved: Action buttons now stay visible and responsive across screen sizes, with sticky positioning for easier access. EM-1334
 - **Transmitters**
 - Improved: The Transmitter Edit button has been moved from the table to the top of the toolbar for a cleaner and more uniform layout, with responsive icon behavior and improved styling on Wireless and Ethernet pages. EM-1337
 - Improved: Battery tracking. The software will now be able to show when a new battery is installed. EM-747/EM-1470
 - **Access Points**
 - Improved: The Edit button is now located on the top toolbar instead of inside the table, making the layout cleaner and more uniform. EM-1340
 - Improved: Ability to see Access Points without transmitters assigned to it. EM-1523

Firmware

- Improved:
 - Transmitters: General (RF, RF-DC, PoE)
 - Improved: Resolution now able to display to the 3rd decimal (0.000). It is particularly important if using inches of water measurement (inWC). EM-679
 - Improved: Battery percentage reading accuracy improved. Battery percentage accuracy, connection status, and updated estimation logic. TVP-13, TVP-265, TVP-269
 - Improved: Additional data sent to EMSuite, including, firmware versions, production dates, and RF channel. TVP-137, TVP-138, TVP-140, TVP-141, TVP-169
 - Improved: Firmware security. Introduced process for resetting AES encryption. TVP-306, TVP-1
 - Note: Requires Access Points and Transmitters to be updated to the latest firmware. Refer to the Ellab Technical Memo for information on required upgrade planning, sequencing, and data integrity considerations.
 - Improved: Transmitter replacement, time synchronization, and stability. TVP-32, TVP-95, TVP-112, TVP-161, TVP-251, TVP-302, TVP-303
 - Improved: Milliseconds now included in date/time command. TVP-147
 - Improved: Utilizing 2nd fraction when correcting time. TVP-213
 - Improved: Display values on custom channels adapt when measuring units are changed. EM-218, TVP-218
 - Transmitters: RF-DC, PoE
 - Improved: Now supports battery status and connection indicators, enabling consistent battery notifications. TVP-244
 - Transmitters and Access Points
 - Updated to new Ellab logo. EM-328
 - Improved: Protocol updates across Transmitters, Access Points, and EMSuite now support sub-section timing, spool-up reset, and core/meta info, with full backward and forward compatibility. TVP-231
 - Improved: Access Points and Ethernet Transmitters now send extended detailed messages with calibration and meta data to EMSuite, making this information available in the database for user interfaces and reports. EM-1177
 - General Improvements: See Change Control

Hardware

- No changes

Mobile APP

- Improved: App channel list now displays operation modes in a data grid format consistent with the website, and highlights channels with active alarms in red for improved visibility. EM-691, EM-692, EM-693
- Improved: App Alarm List Channel ID character count has been increased. EM-449
- Improved: Greater differentiation between Alarm and Alarm Test on app. EM-1221
- Improved: Ability to view calculated channels on app. EM-1077
- Improved: When acknowledging an alarm, action cards are no longer required

TrackView Customer APP

- Improved: Now supports expanded radio selection, including Channels 5 & 6. TVP-539
- Improved: Customer APP now correctly reads long connection URLs without missing characters, ensuring reliable communication and accurate equipment updates. TVP-514
- Improved: New firmware releases included

Manuals

- Updated: Software Manual
- Updated: Hardware Manual