TrackIt®
Web Console

TrackIt Delivery Cycle Monitoring

Version: 1.0

Software Configuration Guide

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Command Alkon

TrackIt Delivery Cycle Monitoring Software Configuration

Once you have installed the TrackIt Delivery Cycle Monitoring hardware on a truck, the software components need to be configured to properly retrieve and interpret data from the system. To configure the TrackIt Web Console for your web users and TrackIt Android for your drivers, do the following:

1. Add licenses & sensor settings
2. Set up the Sensor Link with the tablet
3. Create alerts and monitor reports
4. Complete the installation checklist

Assign licenses

Performing this step enables the web and tablet components to display the correct pages for further configuration. You can add licenses to equipment individually or add in bulk.

> ⚠️ The following settings are typically only available to those with Admin permissions within TrackIt.

To add licenses to equipment in bulk

> ⚠️ While the TrackIt Delivery Cycle Monitoring License, Sensor Type, and Drum Type can be added in bulk, the Flow Meter Volume Per Pulse, Water Units, Sensor Link MAC Address, and Magnet's Count must be entered for each piece of equipment in the TrackIt Android application.

1. Navigate to **Settings > Licenses > Licenses**.
2. Select the Delivery Cycle Monitoring license from the **License** drop-down menu.
3. Use the State, Plants, Equipment Types, and Equipment Groups to filter your equipment and click **Apply** Apply .
4. Check the box next to each piece of equipment that needs a Delivery Cycle Monitoring (DCM) license.
5. Click **Save** Save . You will now need to choose a sensor type for each piece of equipment.
6. Navigate to **Settings > Equipment > Equipment Bulk Update**.
7. Check ✅ the DCM Sensor Type box.
8. Choose `Novotron 1` or `Novotron 2` from the drop-down menu.
9. Click **Save** Save + .

To add licenses to equipment individually

1. Navigate to **Settings > Equipment > Equipment**.
2. Click **Edit** next to the piece of equipment that needs a license.
3. In the *Edit Equipment* dialog screen, select the *Licenses* tab.
4. Find and check the box for the Delivery Cycle Monitoring. The *Sensors* tab will appear.
5. Click **Save** .

Configure Sensor Settings: Drum Type, Status Changes, System Settings

After adding a license for TrackIt Delivery Cycle Monitoring to your truck, the **Sensor** Settings need to be properly configured before the Sensor Link and tablet are paired.

To enter system settings

1. Navigate to *Settings > Sensor > System Settings*.
2. From each drop-down menu, choose the desired units for each value.
3. Click **Save Settings** Save Settings when finished.

To enter drum type

1. Navigate to *Settings > Sensor > Drum Type*.
2. Select **Add Drum Type** Add Drum Type ✛ .
3. Enter a drum type **Name**.
4. In the *Drum* tab, enter Drum Circumference (Yard) and Mixing Direction.
5. In the *Unloading* tab, enter **Volume When Fully Loaded**, **Turns Required to Start Pouring**, **Turns Required to Fully Unload**, and **End Pour Trigger Threshold (%)**.
6. Click **Save & Close** Save & Close .

To enter Status Changes

1. Navigate to *Settings > Sensor > Status Changes.*
2. Select your TrackIt Delivery Cycle Monitoring status type.
3. From each drop-down menu, select the status that will trigger in your ticketing system when the automatic statuses are triggered.

> ⚠️ The Loading status meaning must be In Service, Arrive Plant, or Ticketed for the auto-statusing feature to work properly with this status.

> ⚠️ Fully Mixed is not currently supported with TrackIt Delivery Cycle Monitoring.

4. Click **Save Settings** [Save Settings] when finished.

Connect the Sensor Link to the Sensor app

The Sensor Link and the equipment tablet need to be properly linked for hardware data retrieval. You will link the tablet and Sensor Link for each truck with the TrackIt Delivery Cycle Monitoring hardware installed. During this step, you will also set the vehicle's drum type, sensor type, and magnet count.

To connect the Sensor Link and tablet

1. Enable the tablet's Bluetooth signal and data.
2. Open the TrackIt Android application.
3. Tap the gear icon in the top right.
4. Select **Sensors** from the menu, then tap **Sensors Setup**.
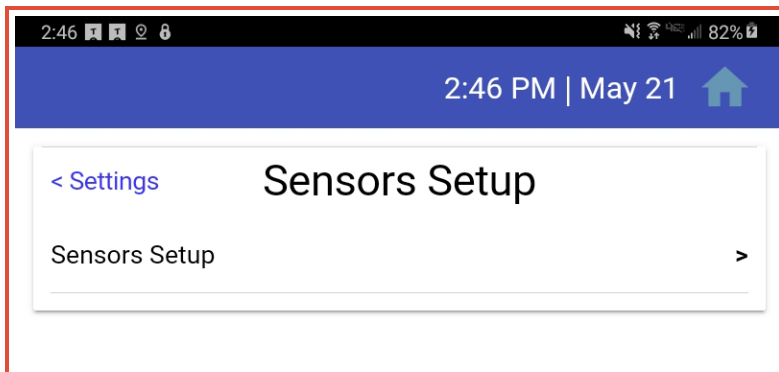
5. Tap the **DCM** radio button.
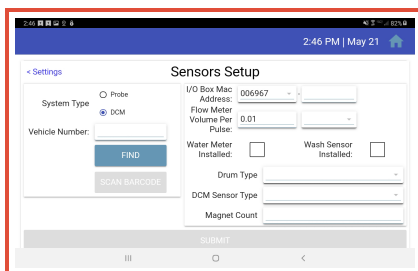
6. Enter the Vehicle Number or tap **FIND**.

7. Tap **SCAN BARCODE** to scan the Sensor Link bar code or QR code.

   This will populate the I/O Box Mac Address field.

8. Choose a **Drum Type**.

9. Choose a **DCM Sensor Type**.

10. Enter the installed **Magnet Count**.

11. Tap **SUBMIT**.

Reports

After the TrackIt Web Console and TrackIt Android are configured with TrackIt Delivery Cycle Monitoring assembly, the Web Console can generate reports based on the data received. Once trucks with the assembly are ticketed and begin their normal workflow, these reports will provide invaluable insight into various aspects of the fleet's job performance. These reports are the **Batch Summary**, **Load Properties**, **Unauthorized Pour**, **System Health History**, and **System Health Summary** reports.

Batch Summary Report

The **Batch Summary** report is intended to help batchers receive feedback on loads and ensure quality concrete. With the TrackIt Delivery Cycle Monitoring assembly, you can view typical ticket info along with the batch Water/Concrete (W/C) ratio, status time stamps, and End Pour Age.

Tips for viewing this report

▶ Ensure the water flowmeter (if used) is installed properly to retrieve Water Added data

▶ Monitor error messages to prevent future issues

▶▶ 🔴 Driver Error

▶▶ 🚫 Data Loss

▶▶ 🔴 Status Problem

▶ Use the Include Voided Tickets filter to investigate rejected loads

▶ Click the Load Properties 📊 icon next to a ticket to view a graphed time line of the load

▶ Use the Info ⓘ icon to access more detailed status and ticket information

Load Properties Report & Load Properties Graph

The **Load Properties** report provides a detailed, timestamped record of each load. With the TrackIt Delivery Cycle Monitoring system, the Load Properties reports includes detailed drum direction and turn values. The Load Properties graph displays detailed graphs of ticket and equipment data over a single day. The graph allows for a large overview and the ability to dig deeper into the details of the data.

Tips for viewing the Load Properties graph

- ▶ Highlight/filter by only the values you want to display on the graph to simplify the graph appearance.

- ▶ Scroll with your mouse to adjust the equipment or ticket time range.

- ▶ Highlight a time frame to zoom in on the selected length of time.

- ▶ Long, curvy lines means data is missing from the Sensor Link.

- ▶ Gaps in data occur when the graph is filtered by vehicle. The gaps represent a vehicle between loads. The graph does not display gaps like this when the graph is filtered by ticket.

- ▶ Click the Chart context menu ☰ button to download or print the graph.

Tips for viewing the Load Properties report

- ▶ Click the **Export Report** Export Report button to export the detailed report to a spreadsheet.

- ▶ When filtering by vehicle, take into account differences in data for gaps between the tickets.

▶ Each line of data accounts for as little as a few seconds to as much as a few minutes of data received. This supplies detailed information but is not easily digestible information. Try the Load Properties graph for more digestible data.

Unauthorized Pour Report

The **Unauthorized Pour** report displays ticket information from pours that occur outside of the designated Job Hotspot listed on the ticket. Administrators can use this report to monitor pours more closely and adjust Job Hotspots or destinations if needed.

Tips for viewing this report

▶ Use the filters to narrow your search by date, Equipment, Employee, Last Plants, Customer, Jobs, and Distance Threshold from the ticket destination.

▶ Adjust the Distance Threshold to view pours that occurred outside of a reasonable distance from the intended location.

▶ You may adjust the Distance Threshold in decimal increments of a mile.

System Health History & System Health Summary Reports

The **System Health History** displays tables listing the your system's health statuses with timestamps. The same information listed in detail here is displayed in the System Health Summary in less detail. The **System Health Summary** displays a pie chart called the DCM Health aspect to provide a quick view of your trucks with TrackIt Delivery Cycle Monitoring.

These reports display data about the health state of devices and systems installed in your fleet. The DCM Health aspect will display how many trucks may be experiencing the following states:

▶ DCM Malfunction

▶ DCM Good

▶ No IO Box Address

▶ COMMANDassurance Malfunction

▶ ESM malfunction

▶ DCM No Magnet Signal

▶ Wiring Pulse Error

> ℹ️ If your vehicles display these states and you have questions, contact TrackIt Customer Support at trackitsupport@commandalkon.com or (800) 624-1872, Option 2 then Option 9.

Tips for viewing the System Health Summary

▶ Filter your Health Aspect Selection to include only the DCM Health aspect to focus your results.

▶ The pie chart displays the most recently reported state from the device. The System Health History report will display every state a device experiences throughout the filtered time frame.

▶ Hover your mouse over each piece of the pie chart to display how many trucks are experiencing that state. You will see the number and then the percentage of trucks (e.g. 6 (3%)).

▶ Click a section of the pie chart to display the System Health Detail dialog window, which includes additional details about the equipment and driver.

Tips for viewing the System Health History

▶ Filter your Health Aspect Selection to include only the DCM Health aspect to focus your results.

▶ Keep in mind each device may display multiple states throughout the day. The most recent state will display on the System Health Summary.

Add the DCM Health Alert

Adding a health alert is optional but advised. Using alerts will help you monitor the TrackIt Delivery Cycle Monitoring system for any issues that may arise.

To add the DCM Health Alert

1. Navigate to *Settings > Alerts*.
2. Click the **Add Alert** [Add Alert +] button.
3. In the *Add Alert* dialog window, select Health Aspect Alert from the drop-down menu.
4. Enter a Name for the alert. Ex: `DCM Health Alert`
5. Check ☑ the health aspect(s) the alert will monitor.
6. Enter the Filter criteria, Driver Messages, and Notification.
7. Click **Save & Close** [Save & Close].

Installation checklist

Review the following to ensure you have completed the installation properly.

☐ The Sensor Link is installed in the truck's cabin, is receiving power, and is properly connected to the other hardware components.

☐ The Drum Rotation Sensor is installed and connected to the Sensor Link.

☐ The Drum Rotation Sensor is securely mounted to the supplied bracket and is within the ideal range of distance from the magnets.

☐ The Drum Rotation Sensor lights are operating as expected.

☐ (Optional) The water flowmeter is installed inline with the drum feed and connected to the Sensor Link.

☐ The tablet installed and mounted in the truck's cabin has been licensed for TrackIt Delivery Cycle Monitoring

☐ The tablet has been connected and configured with the Sensor Link via TrackIt Android.

☐ The DCM Health alert is active and reports receive data after tickets are assigned.

> ✅ *Congratulations! You have completed the installation for TrackIt Delivery Cycle Monitoring. If you have any questions or concerns, contact TrackIt Customer Support at trackitsupport@commandalkon.com or (800) 624-1872, Option 2 then Option 9.*