Solution Overview
Basics
System Components Overview

Tags & Devices
- Monitoring

Facility’s Existing Wi-Fi network Infrastructure
- Location Accuracy

MobileView PC Web Client
- Instant Notifier (INF), HTTP post, dedicated client, email, Web service
Open a supported browser (Google Chrome or Microsoft Edge) and connect to the provided URL.

If you have access to multiple solutions, select the appropriate application tile.

Click the cogwheel to access:

- Administration
- My Settings
- Help
EM - Core Components

Click an icon on the top menu to access:

Home Screen (EM only)
- View asset status and details

Locator Screen
- Search for assets in real time

Alerts Screen
- View alerts in a detailed event pane

Reports Screen
- Customizable reporting
Basic Tags Features

This information is fundamental to all tags the RTLS solution can deploy.

- Battery-powered devices and transmit a radio signal at configured intervals (typically 5-15 min)

- Captures Audit when Check mark is pressed – Logs Min/Max range and current temp readings

- Each one has a MAC address, which allows the tag to be specifically identified
EM - Tags
EM Tags Overview

T15ms Tag
Multi-Sensor Replaces
T5cs Tag
Dry Contact Sensor

T15e Tag, VFC
Temperature probe and contact sensor
100% CDC Compliant for VFC

T15h Tag
On-board temperature & humidity
-30°C to +75°C
(-22°F to +167°F)

T5a Tag
On-board temperature sensor
-30°C to +75°C
(-22°F to +167°F)

T5m-v Tag
Humidity, temperature & voltage sensor

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Deploying Tags – NIST Calibration

NIST - National Institute of Standards and Technology

Responsible for calibration standards for measuring equipment and procedures

- International standards-compliant certification option for temperature tags
- Verifies calibration and accuracy of tags at 3 points over their useful range
- Calibration available at extra cost on a per-tag basis
- Expiration date set per regulatory requirement and facility policy

Calibration Certificate Stored in the Asset Record
Tag Placement

- Air flow is the most important factor in determining tag placement (avoid direct cool air flow)
- Place tag/probe centered in the unit, not in a door
- Do not overcrowd the unit or stack items on top of the tag, this prevents air circulation

Quality of your device

<table>
<thead>
<tr>
<th>Grade</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Grade</td>
<td>best accuracy</td>
</tr>
<tr>
<td>Industrial Grade</td>
<td>better accuracy</td>
</tr>
<tr>
<td>Consumer Grade</td>
<td>worst accuracy</td>
</tr>
</tbody>
</table>

Note: For ultra-cold applications, the probe should be mounted bare
EM Tag: T15e

Designed for Environmental Monitoring Use Cases

- Monitors refrigerators, freezers, warmers etc.
- Temperature monitoring ranges -328°F to +284°F (-200°C to +140°C)

Key Features:

- Visual E-Link display
- Local alarm
- External power with battery backup
- VFC Compliant
- Retains 64K logged records
- Integrated Contact Sensor
- Audit Button feature
Using a small Philips head screwdriver, remove the battery door screw.

Using your finger, pull down on the tab to open the battery door.

Insert new 1.5V Alkaline AA batteries.

- Place the bottom of the cover in first.
- Push closed the battery door, you should hear a CLICK when the door is shut.
- Replace the battery door screw.
Home Screen
Home Screen Overview

The EM Home screen contains a variety of features and options.

- Configured views list
- A list of EM assets
- Click a Location link to view an asset on a map
- View Pending, Warning or Out of Range alerts
- Red values indicate an asset is out of range
  Orange values indicate an asset is a warning level

Hover over an asset name to view basic details or click to view all details
Configure View icon helps to manage view lists according to use cases.

- From the Home Screen click the Configure View icon

The following options are available:

- All Assets – System default view
- Personal Views – Create, manage, and share views
  - The house icon – A set user default view
  - Public View – View(s) the user shared
  - Blue text – The current displayed view
- Shared Views – Department views share with you
- Click the Ellipsis icon next to any view name to see change options
Creating Views

From the Home Screen:
1. Click +CREATE VIEW

2. Enter a view name and description (optional)
   - Under Data Filter select parameters

3. Under Edit Columns select and order columns to display in view

Under General Settings (optional)
4. Select location path to display
   - Select sort list result options
   - Select departments to share
Viewing a Single Asset

From the Home Screen click on an asset name to open a single asset view screen.

Sensors Graph Tab - Temperature, humidity, and contact sensor history are shown in graph format.

Alerts Log Tab - A list of pending alerts for the selected asset.

Asset Details Tab - Additional asset information for the selected asset.
Sensor Graph Tab allows you to easily view and handle alerts and filter data.

Click an Alert icon to open the Event Log view details, add corrective actions, and dismiss alerts.

Graphs can be downloaded as an image or CSV.
Reading Sensor Graph

Temperature and Humidity Tags
- Red line – Minimum and Maximum values
- Orange line – Warning level (if configured)

Contact Sensor Tags
- Red line (Open) displays the alert
- Blue line (Closed) displays the normal value

Blue line above a Red line, indicates an abnormal condition. i.e., door open.
The ‘Alerts Log’ tab shows Pending and Dismissed alerts for the following events:

- Temp, humidity, sensor tag error, and out of sight

Click an event name to open the ‘Event Log’ details.

Details include Event Name, Priority, Alert Triggered Time, Corrective Actions.

Click +Add to enter Corrective Actions.
Click ‘Dismiss’ to dismiss the alert.
The ‘Asset Details’ tab shows a complete asset card with info relative to the asset type, status, and condition.

1. General Details
2. Description
3. Customer Properties
4. Tags
5. Condition Monitoring
Locator Screen
Navigating Locator Screen

The **Asset Locator** offers a feature for finding and viewing assets on maps or in a list.

Click the Asset Locator Icon to access three types of search options

- **Favorites** – View stored or shared favorites

- **Find Specific Asset** - This allows you to search for a known asset

- **Advanced Search** – This allows you to find assets using more detailed criteria
Locator – Favorites

1. Click Favorites to view favorite list
2. Click a search name to run the search

From the search results screen
3. Click Add to Favorites
4. Enter a name and check to share
Find Specific Asset

1. Click Find Specific Asset
2. Enter a name ID, tag ID, or serial number
3. Click on specific asset to display single results
4. Click Search to show all displayed assets

Click Search with blank search string to display all assets
Locator – Advanced Search

1. Advanced Search

2. Find assets using detailed criteria

3. Click the Search button after criteria selection

- Asset type
- Location
- Status
- Custom Properties
- Departments or Groups
- Search using text with asset name, serial number, etc.
Locator - List Tab View

1. The List tab displays multiple results in a list format (default)
   - In settings this can be changed

2. Click the location link or Map Tab to view assets on a map

3. Click the status link to change the business status of an asset
   - Click on the new status from the menu

4. Click the Details link to open the asset properties panel
Locator - Map Tab View

1. The Map tab displays single results on a map
   - In settings this can be changed
   - Single assets display icon only

2. Multiple assets display the number of assets
   - **Same category** - One asset icon
   - **Different categories** - Multi-asset icons

3. Click on asset icons to open details panel
   - Click the More icon to view asset details
   - Click Track this Asset icon to track in real-time
   - Nonstationary assets

4. Alerting assets display as:
   - **Blue** - low
   - **Yellow** - Medium
   - **Orange** - High
   - **Red** - Critical

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Alerts Screen
Alert Screen Overview

The **Alerts Screen** is where all past and present alert details accumulate

- Filter options for alerts
  - Priority
  - Alert Type
  - Time Range and more

Most common types:

**Environmental Monitoring**
- Temperature
- Out of Site
- Tag Battery
- External Power (T15 Tags only)

**Asset Management**
- Out of Site
- Battery Level
- Asset Properties
- PAR Level
- Tamper
### Navigating Alerts Dashboard

The image shows a dashboard interface for monitoring and managing alerts. The interface includes options for selecting events based on various criteria such as priority, type, date range, and location. It also allows the user to bulk-dismiss or add corrective actions to specific events. A maximum of 400 events can be selected at once.

#### Example Events Table

<table>
<thead>
<tr>
<th>Event ID</th>
<th>Priority</th>
<th>Status</th>
<th>Date/Time</th>
<th>Type</th>
<th>Name</th>
<th>Area/Zone</th>
<th>Asset</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>266018097</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 9:54:47 AM</td>
<td>Temperature</td>
<td>High Temp - Level 1</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Nursing Fridge</td>
<td>Insert</td>
</tr>
<tr>
<td>266018218</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 10:01:11 AM</td>
<td>Temperature</td>
<td>High Temp - Level 1</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>IT Equipment Room</td>
<td>Insert</td>
</tr>
<tr>
<td>266183621</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:16:15 PM</td>
<td>Asset Properties</td>
<td>Broken Assets</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Lab Freezer</td>
<td>Insert</td>
</tr>
<tr>
<td>266183622</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:16:16 PM</td>
<td>Asset Properties</td>
<td>Broken Assets</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Nursing Fridge</td>
<td>Insert</td>
</tr>
<tr>
<td>266183623</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:16:16 PM</td>
<td>Asset Properties</td>
<td>Broken Assets</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Pharm Fridge</td>
<td>Insert</td>
</tr>
<tr>
<td>266183624</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:16:16 PM</td>
<td>Asset Properties</td>
<td>Broken Assets</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>IT Equipment Room</td>
<td>Insert</td>
</tr>
<tr>
<td>266183625</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:16:16 PM</td>
<td>Asset Properties</td>
<td>Broken Assets</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Lab Freezer</td>
<td>Insert</td>
</tr>
<tr>
<td>266184079</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:23:34 PM</td>
<td>Temperature</td>
<td>High Temp - Level 1</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>(PH) Cardi Cart 2</td>
<td>Insert</td>
</tr>
<tr>
<td>266184090</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:30:34 PM</td>
<td>Temperature</td>
<td>Critical</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Lab Freezer</td>
<td>Insert</td>
</tr>
<tr>
<td>266184859</td>
<td>Critical</td>
<td>Pending</td>
<td>12/09/23 2:50:54 PM</td>
<td>Temperature</td>
<td>Critical</td>
<td>Main Campus/Floor 1/Lobby &amp; Procedures</td>
<td>Lab Freezer</td>
<td>Insert</td>
</tr>
</tbody>
</table>

#### Instructions

- **Click to bulk-dismiss or add corrective actions**
- **Maximum of 400 events can be selected at once**
- **Click to add individual corrective actions**

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Alerts – Adding Corrective Actions

From the Alerts screen you can enter the action taken to remedy the situation that triggered the event:

1. Select the event and click Insert
   - Complete all administrator-required fields

2. Change event from Pending to Dismissed
   - Save and close event

3. Click View/Add to reopen corrective actions window
Reports Screen

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Reports allows you to retrieve detailed data about current states and past events. There are two types:

**Instant Reports**
- Templates for creating one-time on-demand reports

**Saved Reports**
- List of saved reports to be generated either on-demand or scheduled, then sent via email

These reports can be for a single asset you are monitoring, an entire department’s assets, or any combination.

Reports can show up to 5 years of data within a 3-month period.
To create an instant report:
1. Click the Instant Report tab
2. Click a report section title from the pane
3. Select the template
4. Name the report and select type (PDF, CSV, HTML)
5. Enter the report parameters, Columns, Output Sorting
   - Fields vary based on report type selected
6. Click the Generate button to create the report
To create a saved report:

1. Clicked the Saved reports tab and select a report
2. Click the Add Saved Report icon
3. Complete the following:
   - Report Details
   - Report Specifications
   - Output Options
   - Access Control
4. Saved reports are now listed in the Reports panel

To manually generate a report:

3. Select the report and click generate to retrieve the newest data
Battery Reports

Generates a list of assets and shows the last reported tag battery level and current location.

- The **Battery/PWR** column shows the tags power source
- Tag models that use **battery power** only display general levels (High, Medium, Low)
- Tags that use both external and battery power display:
  - **Not PWRD** indicates that the tag is running on battery power only
  - **PWRD** indicates that the tag is using an external power source and battery

**Best Practice:**
- Schedule a weekly report
- Check battery level during PM or calibration checkups
- Replace batteries below a certain threshold
EM – Report Types
Temperature Reports

Summary Reports
- Display current, minimum, maximum and average levels registered by tags over time
- Very good for troubleshooting which Assets are alerting

Current Reports
- Display the latest levels reported for each asset in the selected asset group, department, or category

History Reports
- Graph of upper and lower temperature threshold limits on a specific asset
- Data can be used for audits
- The best for temperature readings for a single asset
Past Temperature Report

- Shows a snapshot of temperature readings taken at a specific moment
- Can select all or specific assets

<table>
<thead>
<tr>
<th>Asset Name</th>
<th>Category</th>
<th>Range</th>
<th>Temperature Range</th>
<th>Date</th>
<th>Location</th>
<th>Tag ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central RX</td>
<td>Refrigerator</td>
<td>2.0 °C / 35.6 °F to 6.0 °C / 46.4 °F</td>
<td>5.6 °C / 42.3 °F</td>
<td>04/30/18 6:31:42 PM</td>
<td>Outpatient Memorial Hospital Outpatient Memorial Hospital</td>
<td>00000005494496</td>
</tr>
<tr>
<td>Chemo Refrigerator</td>
<td>Refrigerator</td>
<td>2.0 °C / 35.6 °F to 8.0 °C / 46.4 °F</td>
<td>5.25 °C / 41.45 °F</td>
<td>04/30/18 8:01:30 PM</td>
<td>Saint Lukes Hospital/Main Hospital/MNH</td>
<td>00000005494494</td>
</tr>
</tbody>
</table>

Total number of results: 2
Temperature Event Reports

This report displays a list of events triggered by temperature readings that violate predefined acceptable limits.

- It can be retrieved by severity levels
- Includes the corrective actions taken in response to each alert
- Can monitor for malfunction. When a temperature report is not received for a configurable amount of time the alert will fire
- A message appears in Instant Notifier
- Alerts viewer indicating the event fired due to no temperature report being received
Condition Monitoring Archive Reports

- Includes temperature/humidity logs over required period
- Data is kept in database for up to 1200 days (no need for archive)
  - Can be used to support regulatory body audits and replace manual temperature logs

<table>
<thead>
<tr>
<th>Date</th>
<th>Temperature</th>
<th>RH in [%]</th>
<th>Range</th>
<th>Asset Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>04/06/18 12:39:11 AM</td>
<td>-31.16 °C / -24.03 °F</td>
<td>&lt;20.0 °C / 4.0 °F</td>
<td>Blood Freezer, Hosp Lab Svs, Rm 1609A</td>
<td></td>
</tr>
<tr>
<td>04/06/18 12:31:08 AM</td>
<td>-31.10 °C / -24.14 °F</td>
<td>&lt;20.0 °C / 4.0 °F</td>
<td>Blood Freezer, Hosp Lab Svs, Rm 1609A</td>
<td></td>
</tr>
<tr>
<td>04/06/18 12:25:52 AM</td>
<td>-30.04 °C / -23.89 °F</td>
<td>&lt;20.0 °C / 4.0 °F</td>
<td>Blood Freezer, Hosp Lab Svs, Rm 1609A</td>
<td></td>
</tr>
<tr>
<td>04/06/18 12:20:51 AM</td>
<td>-30.70 °C / -23.41 °F</td>
<td>&lt;20.0 °C / 4.0 °F</td>
<td>Blood Freezer, Hosp Lab Svs, Rm 1609A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>04/06/18 12:38:40 AM</td>
<td>-31.07 °C / -25.55 °F</td>
<td>&lt;20.0 °C / 4.0 °F</td>
<td>Blood Chem Freezer, Hosp Lab Svs, Rm 1602D</td>
<td></td>
</tr>
</tbody>
</table>
Integrated Temperature History Report

- Temperatures logged over a predefined period
- 1-24 readings per device each day (customizable)
- Details alerts that were triggered due to temperature being out of permitted range
- Includes corrective actions

Can be used to support regulatory body audits and replace manual logs
VFC Audit Report

Used to show VFC Audit history (BD and UD deployments) and offline data.

Offline data (BD deployments only) is data that was not uploaded to MobileView in real-time (due to network failures) and was uploaded during a BD session or a manual sync. Offline data is indicated with an asterisk (*).

Can be used to support regulatory body audits and replace manual logs.
Summary Sensor Reports

Summary Reports – Displays a summary of sensor data (current, min, max and average)

- MKT (Mean Kinetic Temperature) readings
- The number of pending alerts and corrective actions
- Only units reporting out of range, limits the report to units that report levels below or above the acceptable range
Detailed Sensor Reports

Detailed Reports – Displays a detailed history of sensor data received from an asset during a selected period

- All Events related to the Asset(s)
- Sensor values – Temp, humidity and contact sensor values
- In and Out-of-range
  - Black text – In range
  - Orange text – Warning
  - Red text – Critical