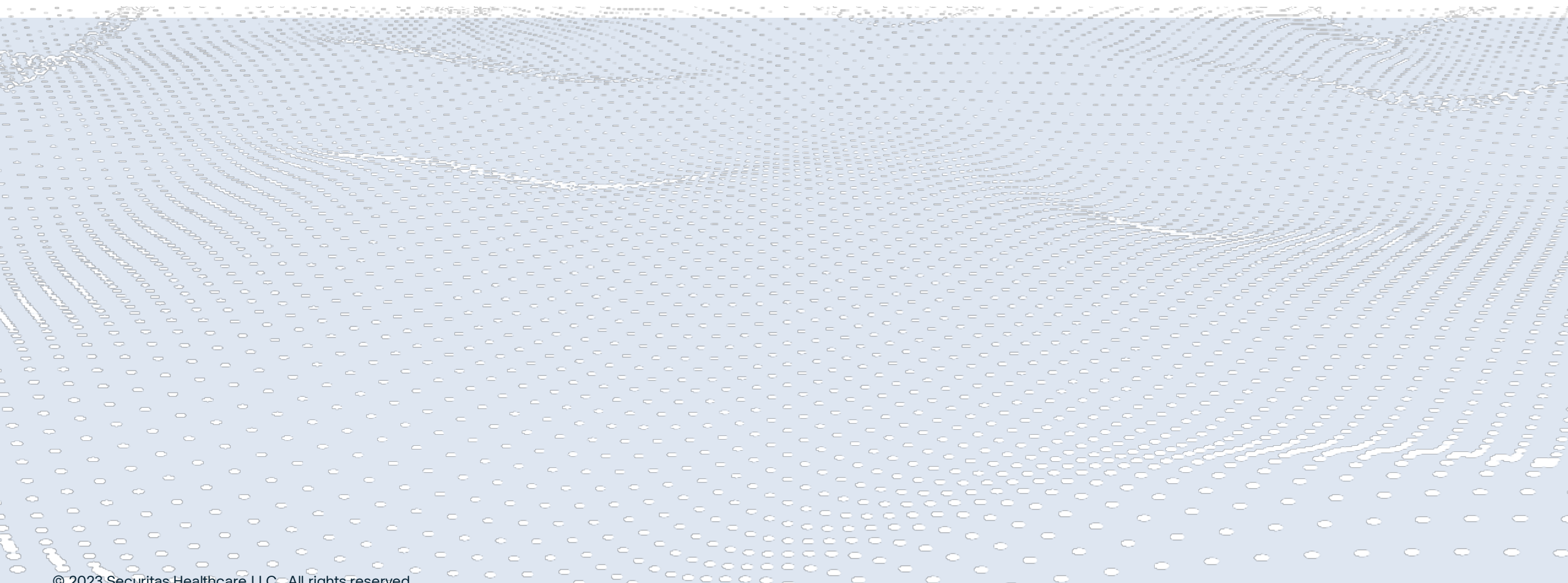




Solution Overview Basics

1



System Components Overview

Tags & Devices



Monitoring



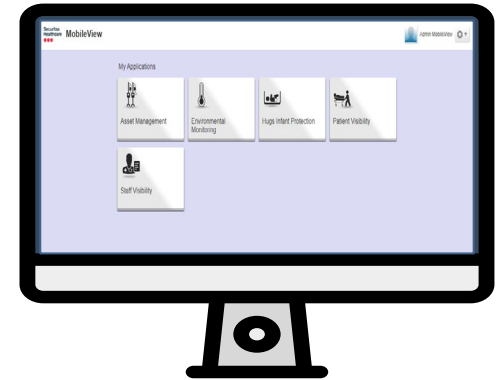
Facility's Existing Wi-Fi network Infrastructure



Location Accuracy



MobileView PC Web Client



Web Browser

Instant Notifier (INF), HTTP post,
dedicated client, email, Web service





Open a supported browser (Google Chrome or Microsoft Edge) and connect to the provide URL



Environmental
Monitoring

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



Click the cogwheel to access:

- Administration
- My Settings
- Change My Password
- Help
- Sign Out

Administration

My Settings

Help

The screenshot shows the Securitas Healthcare login page with fields for User Name and Password, a 'Remember me' checkbox, and 'Forgot Password?' and 'Log In' links. Below the login page is the Environmental Monitoring dashboard. The dashboard header includes the Securitas Healthcare logo, the title 'Environmental Monitoring', a home icon, a search icon, a notification bell, a bar chart icon, a user profile for 'Lisa Summers', and a settings cogwheel icon. The main content area displays a table of 'All Assets' with columns for Asset Name, Location, Alerts, Temperature, RH, and Contact Sensor. The table lists various assets such as Breast Milk, IVT Fridge 2, Lab Freezer 1, OR 1 Room Temp, Pharm Fridge 1 - VFC, Pharm Fridge 2 - VFC, Preop Med Fridge, and SHMC DC-1, each with its current temperature and status.

Asset Name	Location	Alerts	Temperature	RH	Contact Sensor
Breast Milk	Womens Center/Floor 1/Floor ...		-4.82 °C		
IVT Fridge 2	Womens Center/Floor 1/Floor ...		1.4 °C		
Lab Freezer 1	Womens Center/Floor 1/Floor 1		-13.79 °C		
OR 1 Room Temp	Womens Center/Floor 1/Floor ...		22.31 °C		
Pharm Fridge 1 - VFC	Womens Center/Floor 1/Floor ...		-7.49 °C		
Pharm Fridge 2 - VFC	Womens Center/Floor 1/Floor ...		0.86 °C		Closed
Preop Med Fridge	Womens Center/Floor 1/Floor 1		-2.88 °C		
SHMC DC-1	Womens Center/Floor 1/Floor ...		20.12 °C	31.4%	


EM - Core Components

Click an icon on the top menu to access:

Home Screen (EM only)

 View asset status and details


Locator Screen

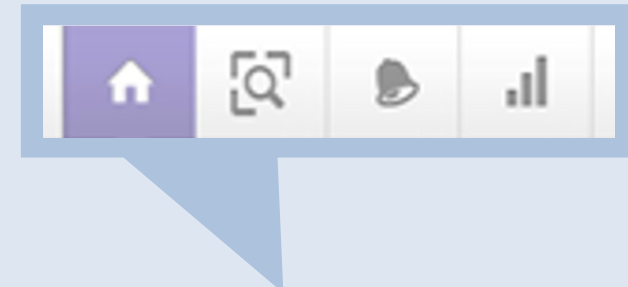
 Search for assets in real time

Alerts Screen

 View alerts in a detailed event pane

Reports Screen

 Customizable reporting



Securitas Healthcare Environmental Monitoring

12/28/20 7:23:39 AM

All Assets All (12) (5) (1) (5) 20 1 - 12 of 12 Filter Results

Asset Name ↑	Location	Alerts	Temperature	RH	Contact Sensor
Breast Milk	Womens Center/Floor 1/Floor ...		-4.82 °C		
IVT Fridge 2	Womens Center/Floor 1/Floor ...		1.4 °C		
Lab Freezer 1	Womens Center/Floor 1/Floor 1		-13.79 °C		
OR 1 Room Temp	Womens Center/Floor 1/Floor ...		22.31 °C		
Pharm Fridge 1 - VFC	Womens Center/Floor 1/Floor ...		-7.49 °C		
Pharm Fridge 2 - VFC	Womens Center/Floor 1/Floor ...		0.86 °C		Closed
Preop Med Fridge	Womens Center/Floor 1/Floor 1		-2.88 °C		
SHMC DC-1	Womens Center/Floor 1/Floor ...		20.12 °C	31.4%	
TSCS Pharm Fridge Door	Womens Center/Floor 1/Floor ...				Closed
Vaccine Freezer 1	Womens Center/Floor 1/Floor ...		-14.3 °C		Closed
WC Fridge 1	Womens Center/Floor 1/Floor ...		-3.94 °C		



End-user interface that serves for navigating between the following four features



Basic Tags Features

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

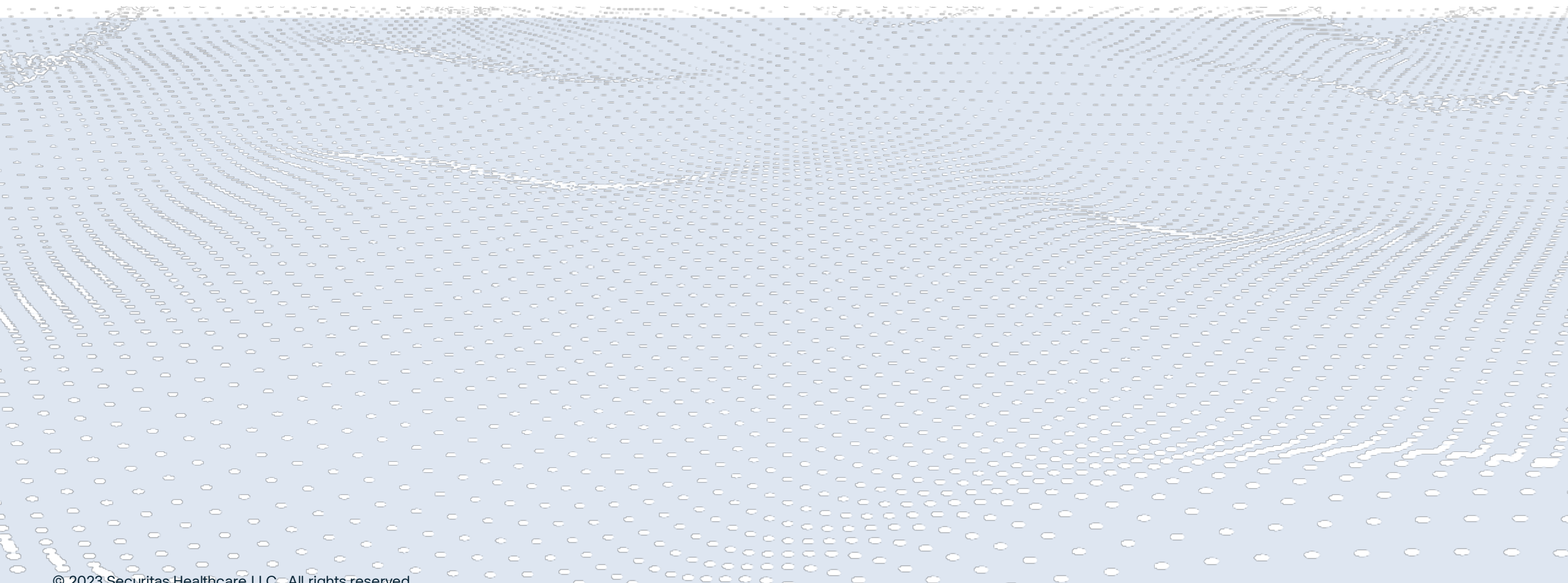
- Battery-powered devices and transmit a radio signal at configured intervals (typically 5-15 min)
- Captures Audit when Check mark is pressed – Logs Min/Max range and current temp readings
- Each one has a MAC address, which allows the tag to be specifically identified





EM - Tags

2





T15ms Tag

Multi-Sensor
Replaces



T5cs Tag

Dry Contact Sensor



T5m-v Tag

Humidity, temperature
& voltage sensor



T15e Tag, VFC

Temperature prob and
contact sensor
100% CDC Compliant for
VFC



T15h Tag

On-board
Temperature & humidity



T5a Tag

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

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



Pharm Fridge 2

Active/Inactive: ● Active
 Location: 4606 Vine St/Floor 1/West/Pharmacy
 Stationary Asset: Yes

Escalation1: timothy.norris@sbdinc.com
 Escalation2:
 Escalation3:
 NIST Certificate: NIST.jpg#6 - [Download](#)
 NIST Tag?: Yes
 PM Completed:
 Rental Return:
 Rental Time: 00

Certificate of Calibration
 Certificate Number: 374916
 Date of Issue: June 21, 2018

Calibration Performed For:
 STANLEY HEALTHCARE
 130 TURNER STREET
 WALTHAM, MA 02453
 Phone: 800-206-1045
 Contact:

Equipment Information
Asset Number: 000CCCS74675
Manufacturer: STANLEY HEALTHCARE
Model Number: TSA/5100
Description: TEMPERATURE TAG
Serial Number: 000CCCS74675
 Department:
 Owner:
 Location:
 Building:
 Workstation:
 Purchase Order:

Calibration Statistics
 Date Serviced: 06/21/2018
 Date Due: 06/21/2019
 Received Condition: IN TOLERANCE
 Returned Condition: IN TOLERANCE
 Result: PASS
 Interval: 12 MONTHS
 Performed By: MIKE CHANEY
 Performed At: MAT LAB

As Left	Tolerance +	Result	+ / - Unc
0.53	2.00	P	0.1 °C
10.42	11.00	P	0.1 °C
39.96	41.00	P	0.1 °C

Description: FI HUMIDITY GENERATOR

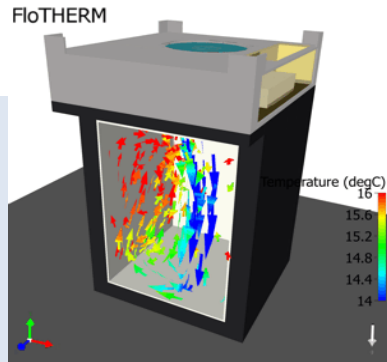


Tag Placement

- 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

- Medical Grade – best accuracy
- Industrial Grade – better accuracy
- Consumer Grade – worst accuracy



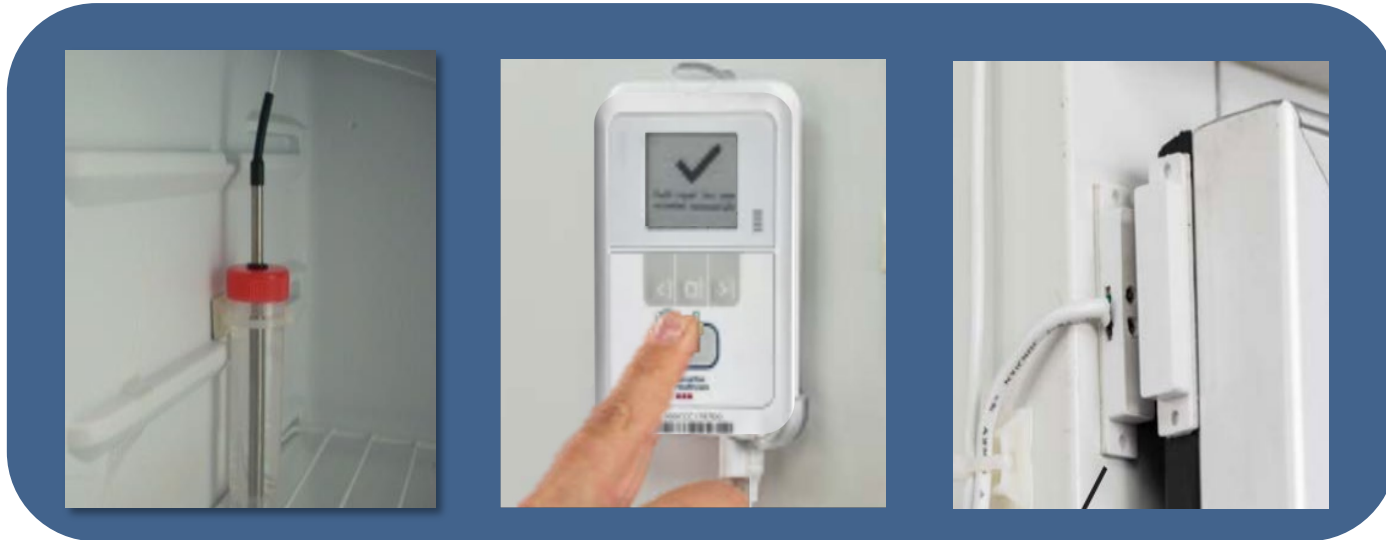
Note: For ultra-cold applications, the probe should be mounted bare



EM Tag: T15e

Designed for Environmental Monitoring Use Cases

- Monitors refrigerators, freezers, warmers etc.
- Temperature monitoring ranges -328°F to $+284^{\circ}\text{F}$ (-200°C to $+140^{\circ}\text{C}$)



Temperature Probe

Bi-Directional TX & Audit Function

Contact Sensor



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



1 Using a small Philips head screwdriver, remove the battery door screw.

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

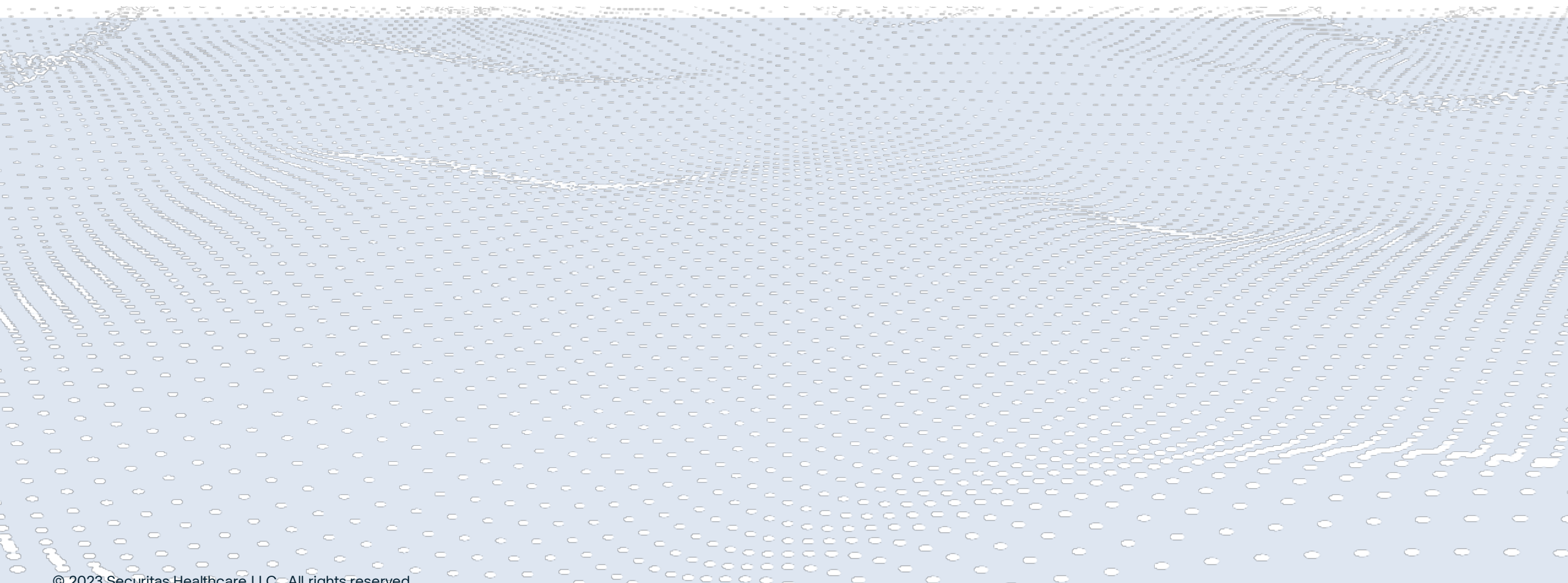
3 Insert new 1.5V Alkaline AA batteries.

4

- 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

3



Home Screen Overview

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

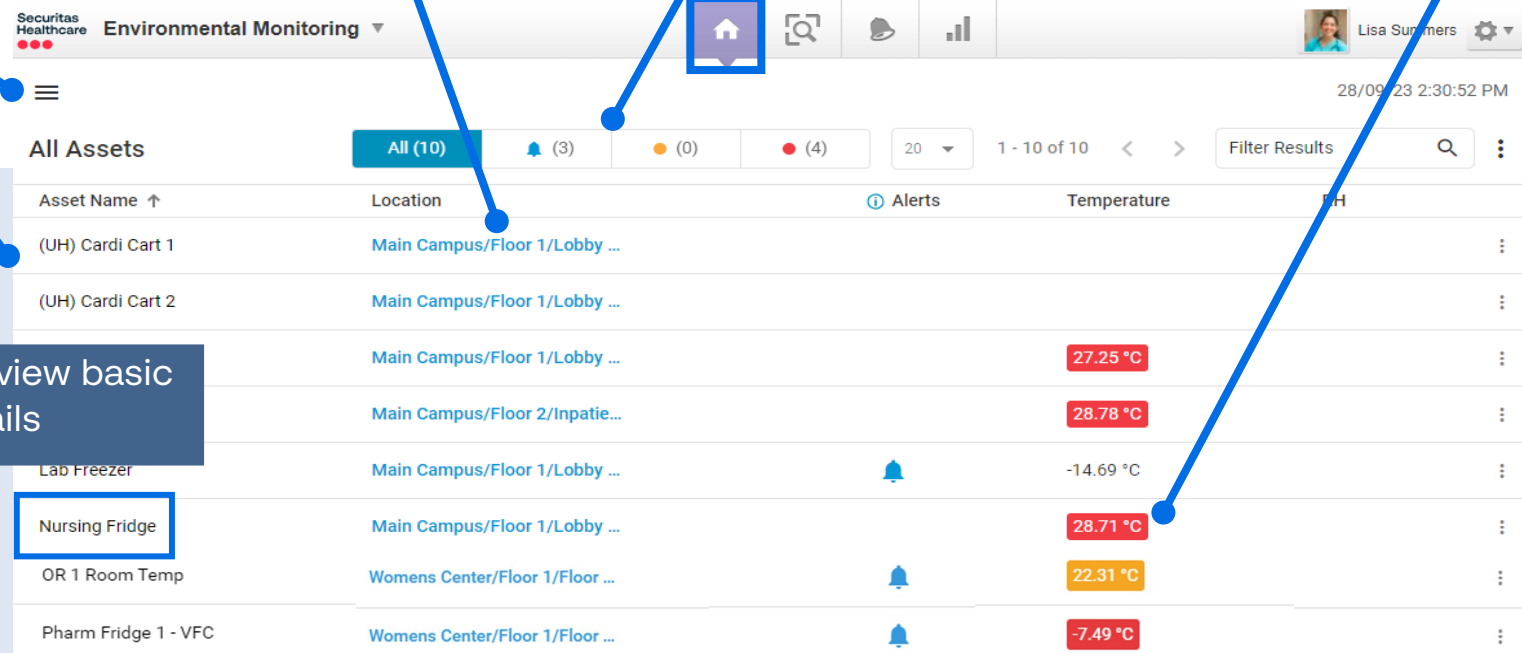
- Configured views list
- A list of EM assets

Click a Location link to view an asset on a map

View Pending, Warning or Out of Range alerts

Red vales indicate an asset is out of range

Orange values indicate an asset is a warning level



The screenshot shows the 'Environmental Monitoring' interface. At the top, there's a navigation bar with the Securitas Healthcare logo, a dropdown menu for 'Environmental Monitoring', and user information for Lisa Summers. Below this is a summary row showing 'All (10)' assets, with 3 alerts (blue bell), 0 warnings (orange circle), and 4 out of range (red circle). A table lists assets with columns for Asset Name, Location, Alerts, Temperature, and a menu icon. The 'Nursing Fridge' row is highlighted with a blue box. A callout box points to the 'Nursing Fridge' row, stating: 'Hover over an asset name to view basic details or click to view all details'. Another callout points to the 'Main Campus/Floor 1/Lobby ...' location link in the same row, stating: 'Click a Location link to view an asset on a map'. A third callout points to the red temperature value '28.71 °C', stating: 'View Pending, Warning or Out of Range alerts'. A fourth callout points to the red temperature value '27.25 °C', stating: 'Red vales indicate an asset is out of range'. A fifth callout points to the orange temperature value '22.31 °C', stating: 'Orange values indicate an asset is a warning level'. A sixth callout points to the top-left menu icon, stating: 'Configured views list' and 'A list of EM assets'.

Asset Name ↑	Location	Alerts	Temperature	⋮
(UH) Cardi Cart 1	Main Campus/Floor 1/Lobby ...			⋮
(UH) Cardi Cart 2	Main Campus/Floor 1/Lobby ...			⋮
Lab Freezer	Main Campus/Floor 1/Lobby ...	🔔	-14.69 °C	⋮
Nursing Fridge	Main Campus/Floor 1/Lobby ...		28.71 °C	⋮
OR 1 Room Temp	Womens Center/Floor 1/Floor ...	🔔	22.31 °C	⋮
Pharm Fridge 1 - VFC	Womens Center/Floor 1/Floor ...	🔔	-7.49 °C	⋮

Hover over an asset name to view basic details or click to view all details

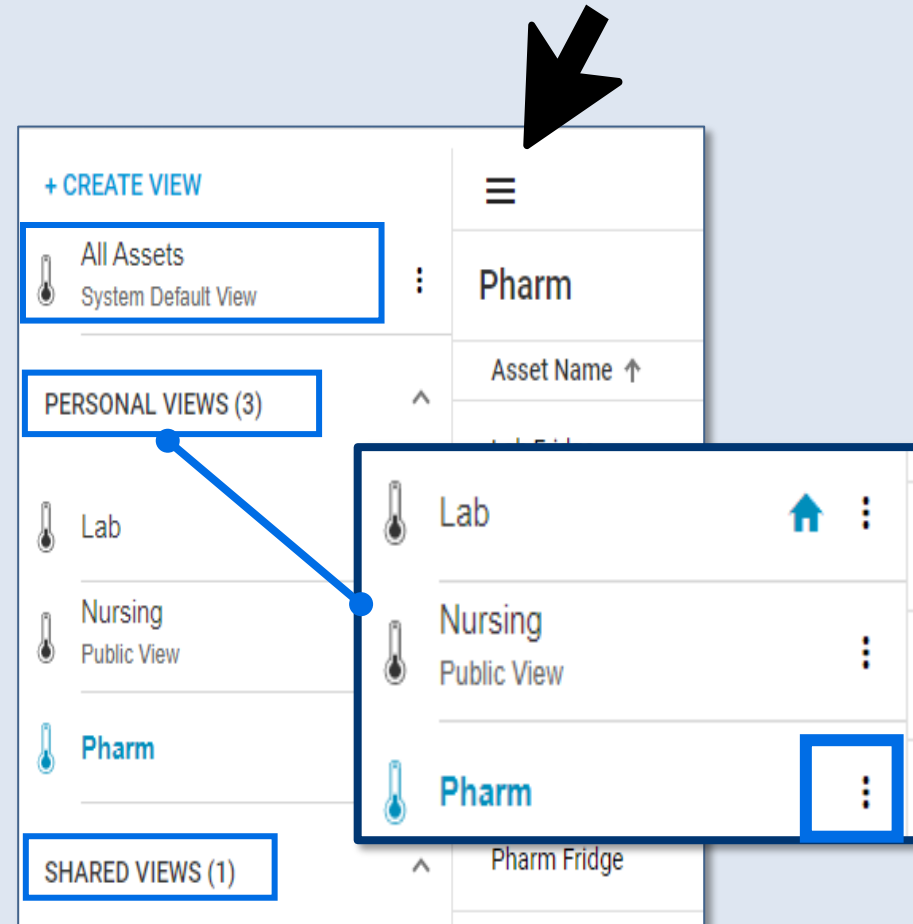


Configure View icon helps to manage view lists according to use cases.

- 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

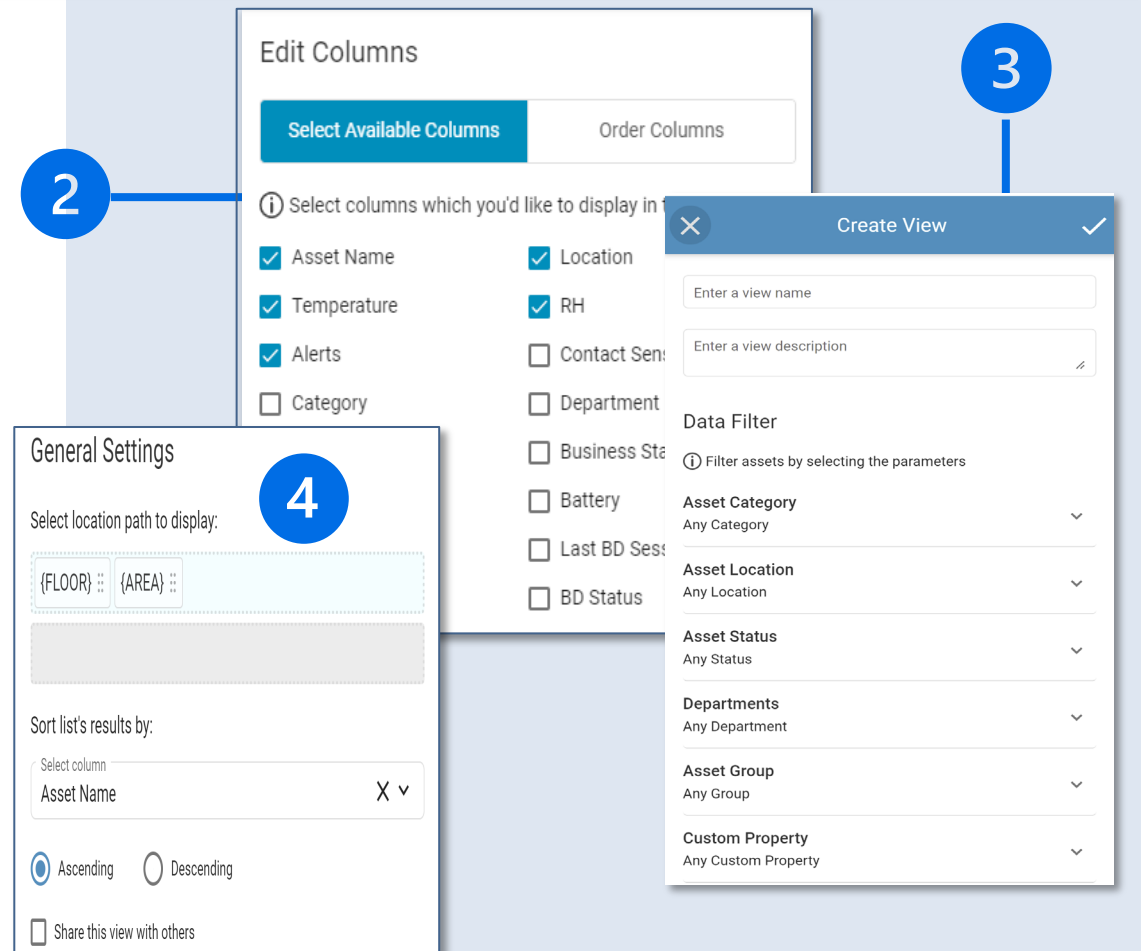
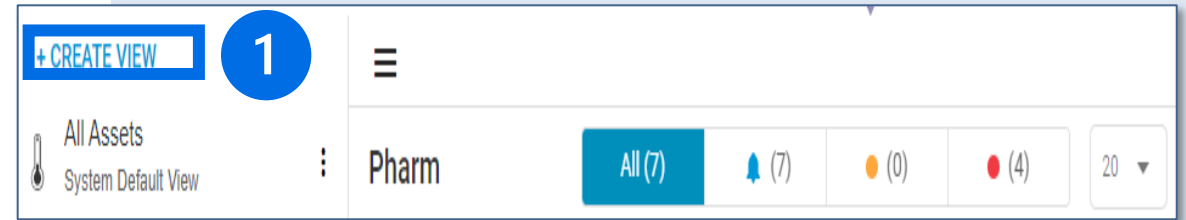


1 From the Home Screen:
- Click +CREATE VIEW

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

4 Under **General Settings** (optional)
- 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

The screenshot shows the 'All Assets' screen with a list of assets. The 'Lab Fridge' asset is selected, and its details are shown in a separate view. The details view includes a back arrow, the asset name 'Lab Fridge', its location 'Main/Floor 1/First', and a temperature reading of 39.75 °F with a range of 34.0 °F to 46.0 °F. Below the details are three tabs: 'Sensors Graph', 'Alerts Log', and 'Asset Details'.

Asset Name ↑	Location	Alerts	Temperature	RH	Contact Sensor
Breast Milk	Womens Center/Floor 1/Floor ...		-4.82 °C		
IVT Fridge 2					
Lab Freezer 1					

Lab Fridge
Main/Floor 1/First
39.75 °F
34.0 °F to 46.0 °F

Sensors Graph | Alerts Log | Asset Details

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

Sensor Graph Tab allows you to easily view and handle alerts and filter data

Graphs can be downloaded as an image or CSV

PharmFridge 1 - VFC
Womens Center/Floor 1/Floor 1/Pharmacy

Sensors Graph Alerts Log Asset Details

Sensors Data Show Alerts Show Manual Audit (VFC) 12H Day **Week** Month Date Range 11/21/20 - 11/28/20

Full Screen
Print
Download Image
Download CSV

Temp out of Range (30 min)

Event Log:

- Out of Normal Condition 11/25/20 8:31:15 PM
- Alert Triggered 11/25/20 8:31:15 PM
- Back in Normal Condition 11/25/20 9:05:15 PM

Out of Normal Condition - Total Duration:
34 Minutes

Dismiss

Corrective Actions:

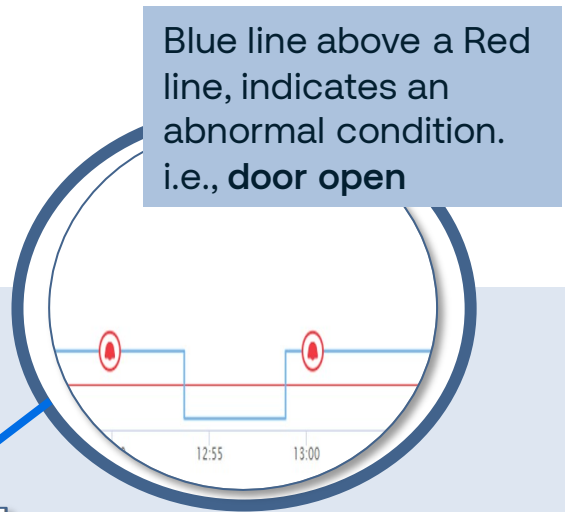
Add Note

Select Taken Action

+ ADD

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

Reading Sensor Graph



Blue line above a Red line, indicates an abnormal condition. i.e., door open

Alerts Log Tab

The 'Alerts Log' tab shows Pending and Dismissed alerts for following events:

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

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

Click an event name to open the 'Event Log' details

The screenshot shows the 'Alerts Log' tab for 'Pharm Fridge 1 - VFC'. The interface includes a header with the asset name and location, a 'Sensors Graph' button, and an 'Alerts Log' button. Below this, there are filters for 'Pending (217)' and 'Dismissed (46)', a dropdown for '100' items, and a date range selector for '11/14/20 - 11/28/20'. A table lists alerts with columns for 'Event Name', 'Priority', 'Alert Triggered Time', and 'Corrective Actions'. One alert is highlighted: 'Low temp' with a 'High' priority, triggered on '09/18/22 06:54:16'. Below the table, the 'Event Log' details are shown, including 'Out of Normal Condition' and 'Alert Triggered' events. The 'Event Additional Details' section shows 'Reason: Temperature event conditions have been met' and 'Event Type: Temperature'. The 'Corrective Actions' section has an 'Add Note' field and a 'Select Taken Action*' dropdown with a '+ ADD' button. A 'Dismiss' button is also visible. At the bottom, a summary bar shows 'Out of Normal Condition - Total Duration: 37 Minutes' with '+ ADD' and 'Dismiss' buttons.

Click +Add to enter Corrective Actions
Click 'Dismiss' to dismiss the alert

🕒 Out of Normal Condition - Total Duration: 37 Minutes



Asset Details Tab

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

Pharm Fridge
Main/Floor 1/First

Sensors Graph Alerts Log **Asset Details**

General Details: **1** Description: **2** Condition Monitoring: **5**

Status: In Use
Categories: Pharm Refrigerators
Primary Category: Pharm Refrigerators
Department: Pharmacy
Last Modified: 05/08/22 10:38:53 AM
Active/Inactive: Active
Stationary Asset: Yes

Description: Fridge had door sensor tag and temp tag.

Custom Properties: **3**
Alert Email: default@mail.com
Medication Temp Test: No

Tags: **4**

- T5a / Tag ID: 000CCC45D301
FW 4B0.24
39%
05/08/22 10:37:09 AM
- T5cs / Tag ID: 000CCC13DE33
FW 4C8.24
71%
05/08/22 10:32:55 AM

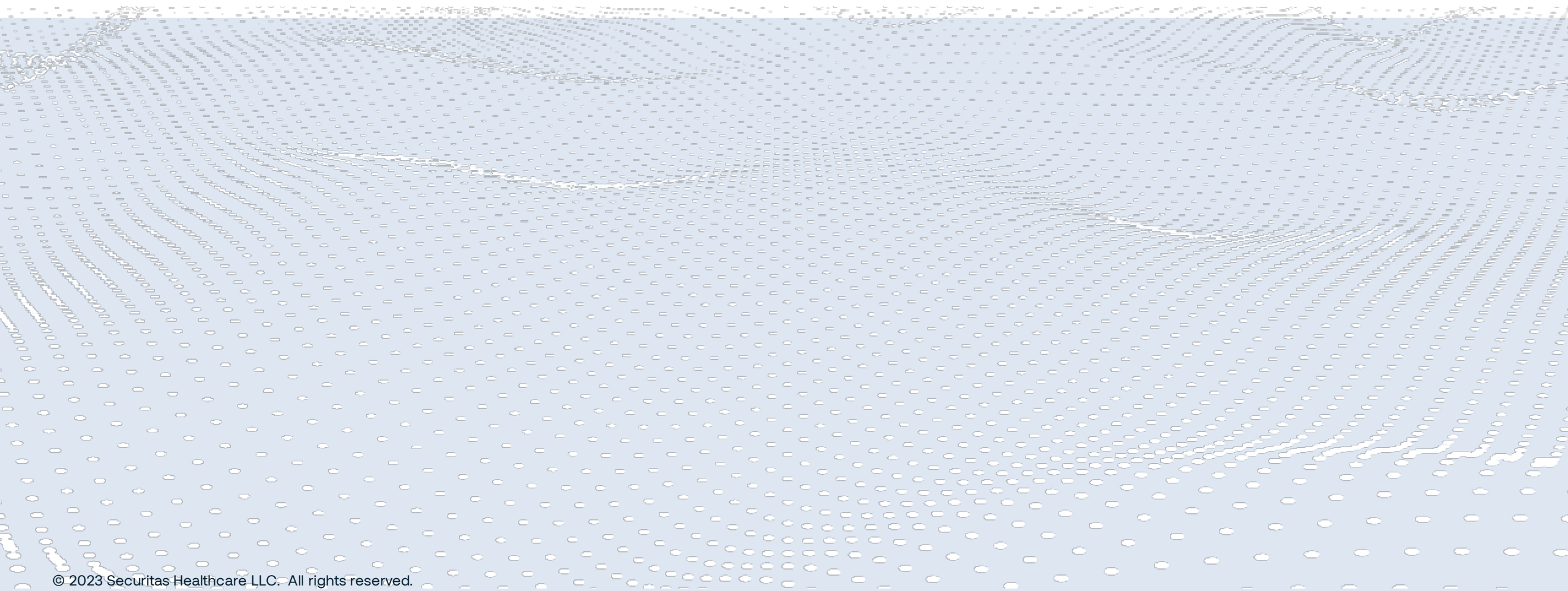
Temperature Thresholds Summary
OK 34°F<=T<=46°F
Warning Not defined
Critical T<34°F or 46°F<T

Contact Sensor Summary
OK Door closed
Critical Door open

32.72 °F
34.0 °F to 46.0 °F

Locator Screen

4





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



Securitas Healthcare

Lisa Summers

What type of search would you like to do?

- Favorites** Select this option to use one of your favorite searches.
- Find Specific Asset** If you know the name, ID, serial number or tag ID of the asset or person you need, select this option.
- Advanced Search** Search for assets or people by category, location, group, department, custom property and status using this option.



Locator – Favorites

1. Click Favorites to view favorite list

2. Click a search name to run the search

From the search results screen

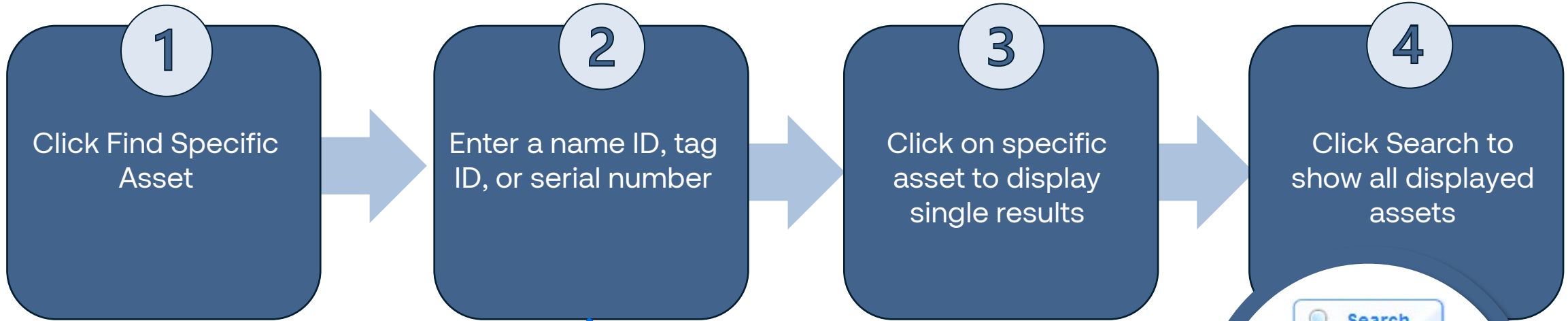
3. Click Add to Favorites

4. Enter a name and check to share

Name	Location	Status	Last Update
Pharm Fridge	Main Campus/Floor 1/Lobby & Procedures	Broken	12/09/23 12:05:00 PM
Pharm Freezer	Main Campus/Floor 1/Lobby & Procedures	In Use	12/09/23 12:01:47 PM
OutP Freezer	Main Campus/Floor 2/Inpatient care		12/09/23 11:53:35 AM
OR 2 (75 to 8... (+1)	Main Campus/Floor 1/Lobby & Procedures		12/09/23 11:51:13 AM
Nursing Fridge	Main Campus/Floor 1/Lobby & Procedures	Broken	12/09/23 12:04:18 PM
Lab Freezer	Main Campus/Floor 1/Lobby & Procedures	Broken	12/09/23 5:09:37 AM
IT Equipment Room	Main Campus/Floor 2/Inpatient care	Broken	12/09/23 11:54:42 AM
Equipment Room	Main Campus/Floor 1/Lobby & Procedures		06/06/23 11:37:25 AM
(UH) Cardi Cart 2	Main Campus/Floor 1/Lobby & Procedures		12/09/23 12:02:01 PM
(UH) Cardi Cart 1	Main Campus/Floor 1/Lobby & Procedures	In Room	12/09/23 12:01:02 PM

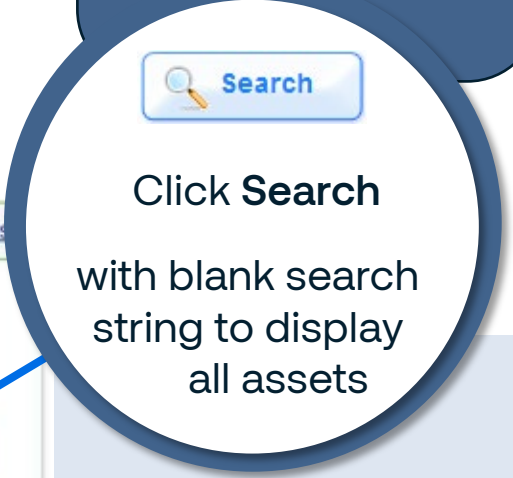


Find Specific Asset



Find Specific Asset My Settings

Start typing the **Name**, **ID**, **Tag ID** or **Serial Number** of the asset you are looking for. You can select one of the suggested values, or click the "Search" button to execute your search.

 Search



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



- 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

The screenshot shows the 'Search Results' interface. On the left, there are navigation buttons: 'Favorites', 'Find Specific Asset', 'Advanced Search', and 'Back to Search'. Below these is a 'Search Criteria' section with a tree view of categories like 'Asset Management', 'Cardi Carts', 'Environmental Monitoring', etc. The main area displays a table of search results with columns for Category, Name, Location, Status, and Last Update. A 'List' tab is highlighted at the top right, and a 'Map' tab is also visible. Callout 1 points to the 'List' tab. Callout 2 points to the 'Location' column. Callout 3 points to the 'Status' column. Callout 4 points to the 'Details' link in the table row for '(UH) Cardi Cart 2'. Below the table, there are two 'Status Selection' pop-up windows. The first shows a menu with options: Available (checked), Broken, In Maintenance, and In Use. The second shows the 'Asset Properties' panel for '(UH) Cardi Cart 2', including fields for Name, Status (Broken), Categories (Cardi Carts, Asset Management), and Description.



1 The Map tab displays single results on a map

- In settings this can be changed
- Single assets display icon only

2

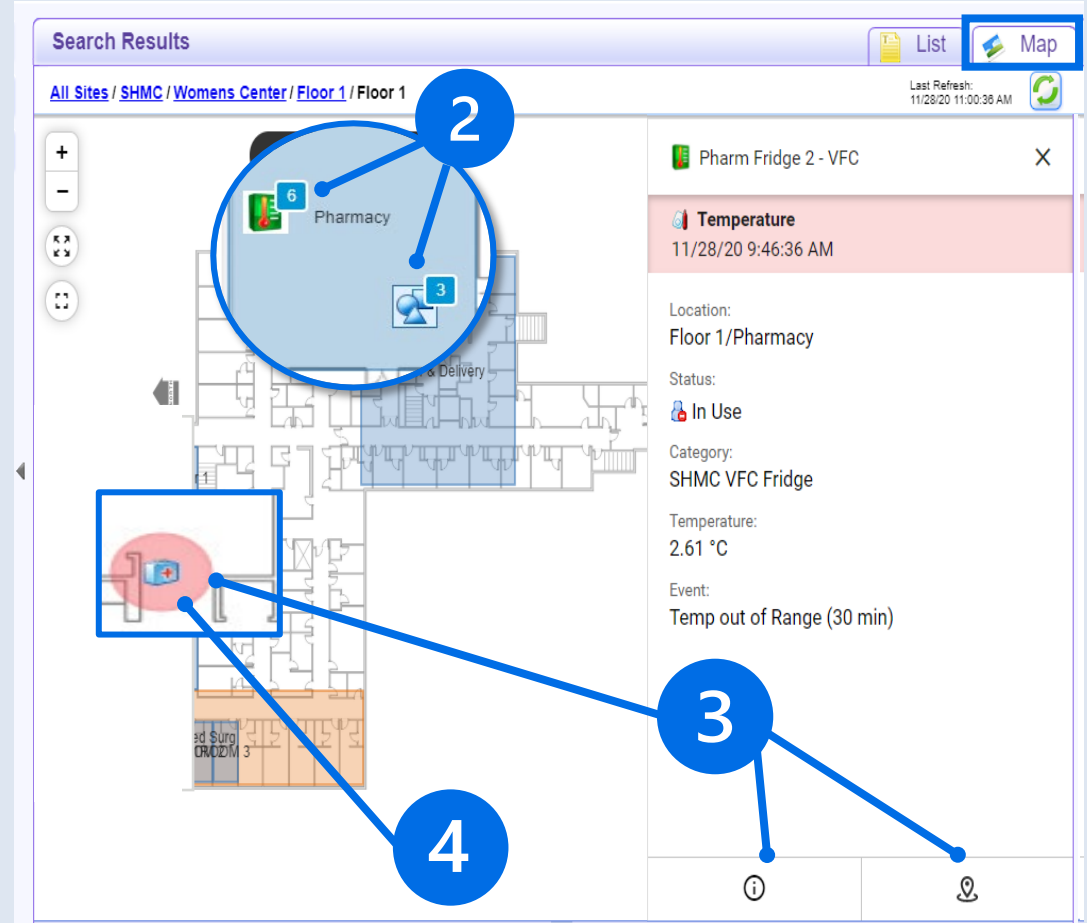
- Multiple assets display the number of assets
 - Same category - One asset icon
 - Different categories - Multi-asset icons

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

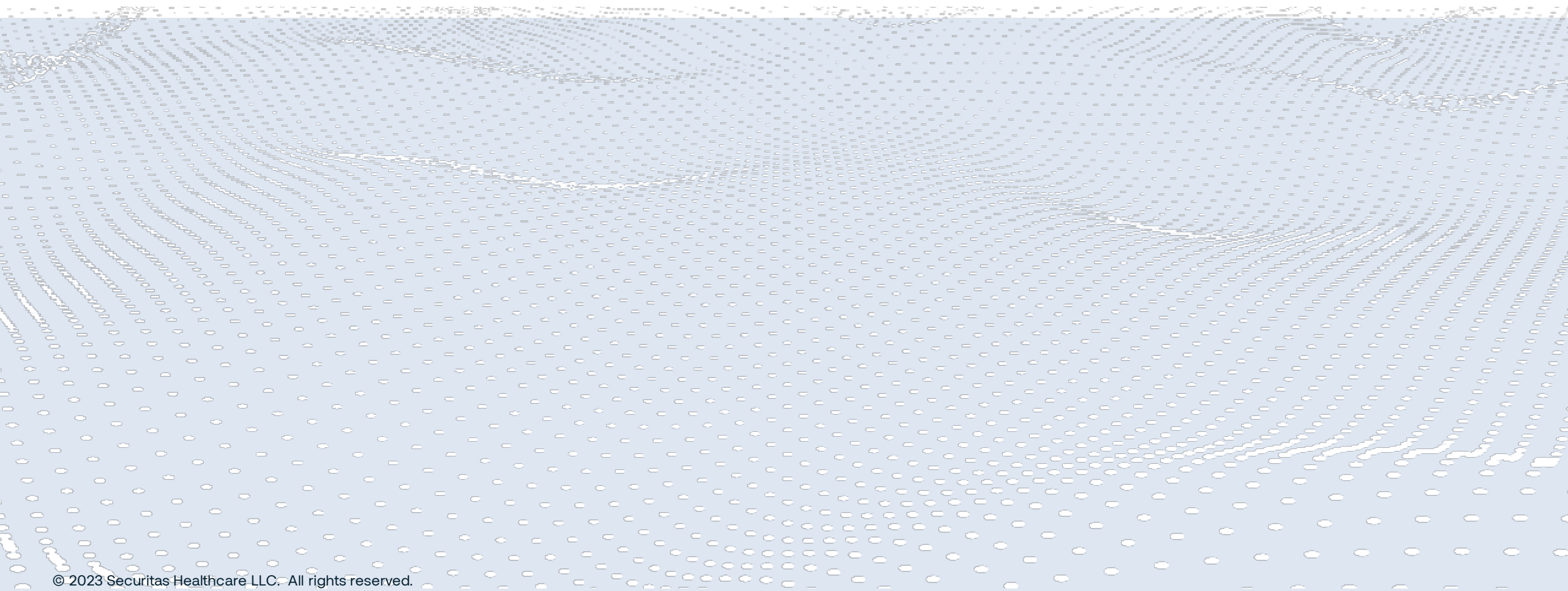
4 Alerting assets display as:

- Blue - low
- Yellow - Medium
- Orange - High
- Red - Critical



Alerts Screen

5



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

Environmental Monitoring

Filter: Show Pending, Time Range 24 Hours, Priority All, Type All, Location All, Asset, Event Name

Event ID	Priority	Status	Date	Type	Name	Area/Zone	Asset	Corrective Action
42507020	Critical	Pending	11/28/20 1:06:36 PM	Temperature	Temp out of Range (30 min)	Womens Center/Floor 1/Floor 1/Pharmacy	Pharm Fridge 2 - VFC	Insert
42501015	Critical	Pending	11/28/20 11:26:36 AM	Temperature	Temp out of Range (30 min)	Womens Center/Floor 1/Floor 1/Pharmacy	Pharm Fridge 2 - VFC	Insert
42424992	Critical	Pending	11/28/20 9:46:36 AM	Temperature	Temp out of Range (30 min)	Womens Center/Floor 1/Floor 1/Pharmacy	Pharm Fridge 2 - VFC	Insert
42420307	High	Pending	11/28/20 8:28:28 AM	Temperature	Temp out of Range (15 min)	Womens Center/Floor 1/Floor 1/Data Center 1	SHMC DC-1	Insert

Temp out of Range (30 min)

Event Type: Temperature
Priority: Critical
Status: Pending

Event Name: Temp out of Range (30 min)
Event Description: Alerts when temp thresholds have been violated.
Date: 11/28/20 1:06:36 PM
Asset's location: Womens Center/Floor 1/Floor 1/Pharmacy
Asset: Pharm Fridge 2 - VFC
Categories: SHMC VFC Fridge
Temperature: -0.06 °C

Asset Management

Filter: Show Pending, Time Range 24 Hours, Priority All, Type All, Location All, Asset, Event Name

Event ID	Priority	Status	Date	Type	Name	Area/Zone	Asset	Corrective Action
286184595	Critical	Pending	12/09/23 2:32:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	(UH) Card Cart 1	Insert
286183656	Critical	Pending	12/09/23 2:16:38 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	(UH) Card Cart 2	Insert

Broken Assets

Event Type: Asset Properties
Priority: Critical
Status: Pending

Event Name: Broken Assets
Event Description: Asset status has been marked as broken due to repair need.
Date: 12/09/23 2:32:15 PM
Asset's location: Main Campus/Floor 1/Lobby & Procedures
Asset: (UH) Card Cart 1
Categories: Card Carts



Navigating Alerts Dashboard

Maximum of 400 events can be selected at once

Click to bulk-dismiss or add corrective actions

All Temperature Humidity

Show: Pending | Time Range: 24 Hours | Priority: All | Type: All | Location: All | Asset: | Event Name: | Search

Results 1 - 10 of 10 Last Refresh: 12/09/23 3:49:11 PM

<input type="checkbox"/>	Event ID	Priority	Status	Date ↑	Type	Name	Area/Zone	Asset	Corrective Action
<input type="checkbox"/>	286018097	Critical	Pending	12/09/23 9:58:47 AM	Temperature	High Temp - Level 1	Main Campus/Floor 1/Lobby & Procedures	Nursing Fridge	Insert
<input type="checkbox"/>	286018218	Critical	Pending	12/09/23 10:01:11 AM	Temperature	High Temp - Level 1	Main Campus/Floor 2/Inpatient care	IT Equipment Room	Insert
<input type="checkbox"/>	286183621	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	Lab Freezer	Insert
<input type="checkbox"/>	286183622	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	Nursing Fridge	Insert
<input type="checkbox"/>	286183623	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	Pharm Fridge	Insert
<input type="checkbox"/>	286183624	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 2/Inpatient care	IT Equipment Room	Insert
<input type="checkbox"/>	286183656	Critical	Pending	12/09/23 2:16:38 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	(UH) Cardi Cart 2	Insert
<input type="checkbox"/>	286184079	Critical	Pending	12/09/23 2:23:34 PM	Temperature	High Temp - Level 1	Main Campus/Floor 1/Lobby & Procedures	Lab Freezer	Insert
<input type="checkbox"/>	286184990	Critical	Pending	12/09/23 2:38:34 PM	Temperature	Temperature Critical	Main Campus/Floor 1/Lobby & Procedures	Lab Freezer	Insert
<input type="checkbox"/>	286184989	Critical	Pending	12/09/23 2:38:34 PM	Temperature	High Temp	Main Campus/Floor 1/Lobby & Procedures		Insert

Click to add individual corrective actions

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

Event ID	Priority	Status	Date	Type	Name	Area/Zone	Asset	Corrective Action
286018097	Critical	Pending	12/09/23 9:58:47 AM	Temperature	High Temp - Level 1	Main Campus/Floor 1/Lobby & Procedures	Nursing Fridge	Insert
286018218	Critical	Pending	12/09/23 10:01:11 AM	Temperature	High Temp - Level 1	Main Campus/Floor 2/Inpatient care	IT Equipment Room	Insert
286183621	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	Lab Freezer	Insert
286183624	Critical	Pending	12/09/23 2:16:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 2/Inpatient care	IT Equipment Room	Insert
286183656	Critical	Pending	12/09/23 2:16:38 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	(UH) Cardi Cart 2	Insert

Add Corrective Action

Alert Details

Event: Broken Assets Asset: Lab Freezer
 Location: Main Campus/Floor 1/Lobby & Procedures Time: 12/09/23 2:16:15 PM

Corrective Action

Recommendations:

Change Alert Status To: Pending (highlighted) / Dismissed

Action Taken: Asset moved to FM for repairs
 Asset status changed to in Maintenance

Notes:

Actions Taken So Far: None

Save and Close Cancel

Add Corrective Action

Alert Details

Event: Broken Assets Asset: (UH) Cardi Cart 2
 Location: Main Campus/Floor 1/Lobby & Procedures Time: 12/09/23 2:16:38 PM

Corrective Action

Recommendations:

Change Alert Status To: Pending

Action Taken: Asset moved to FM for repairs
 Asset status changed to in Maintenance

Notes:

Actions Taken So Far: None

Save and Close Cancel

286018097	Critical	Dismissed	12/09/23 9:58:47 AM	Temperature	High Temp - Level 1	Main Campus/Floor 1/Lobby & Procedures	Nursing Fridge	View/Add
286184595	Critical	Dismissed	12/09/23 2:32:15 PM	Asset Properties	Broken Assets	Main Campus/Floor 1/Lobby & Procedures	(UH) Cardi Cart 1	View/Add

Reports Screen

6



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

Instant Reports

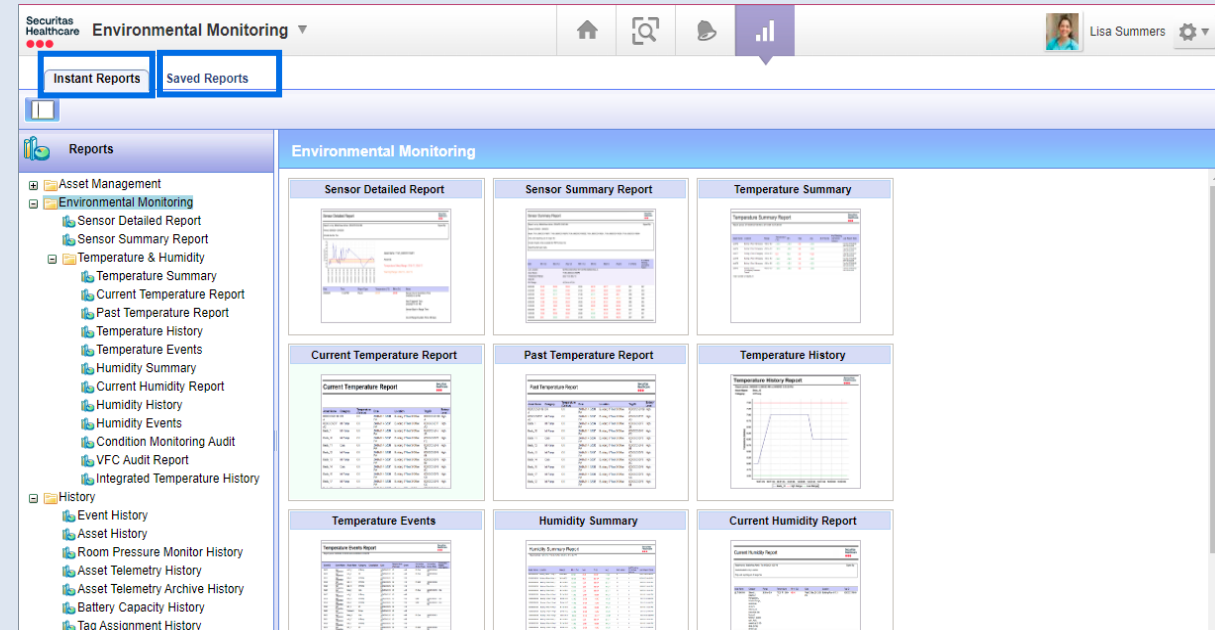
- Templates for creating one-time on-demand reports

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.





Instant Reports

- 1** To create an instant report:

 - Click the Instant Report tab
- 2**

 - Click a report section title from the pane
 - Select the template
- 3**

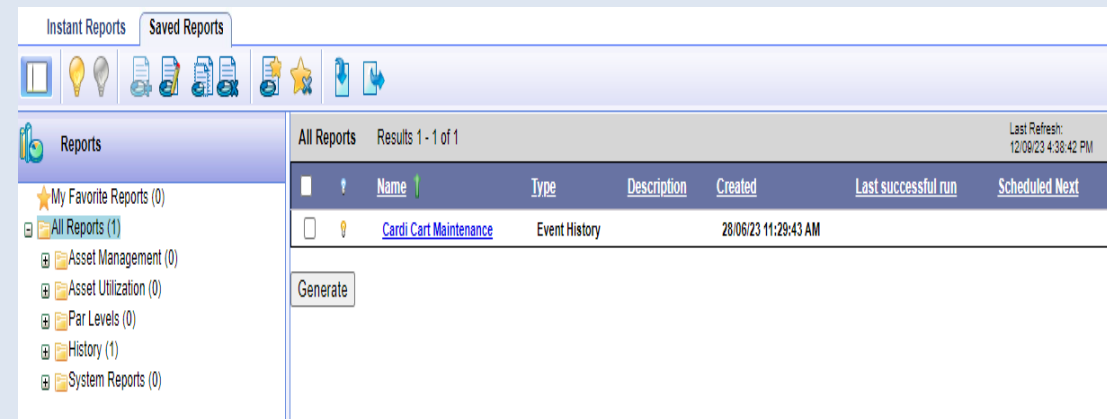
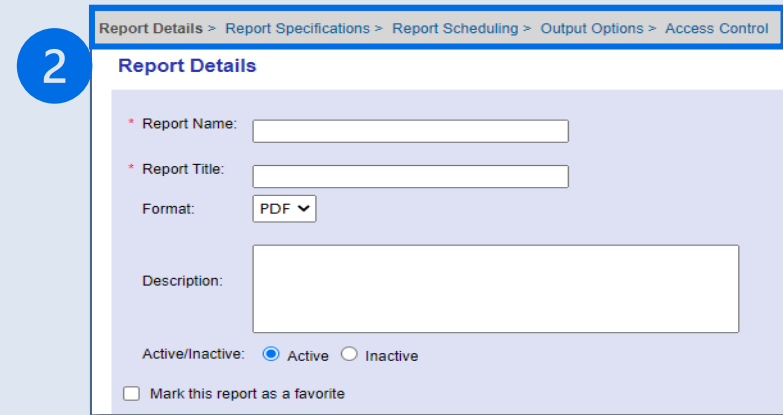
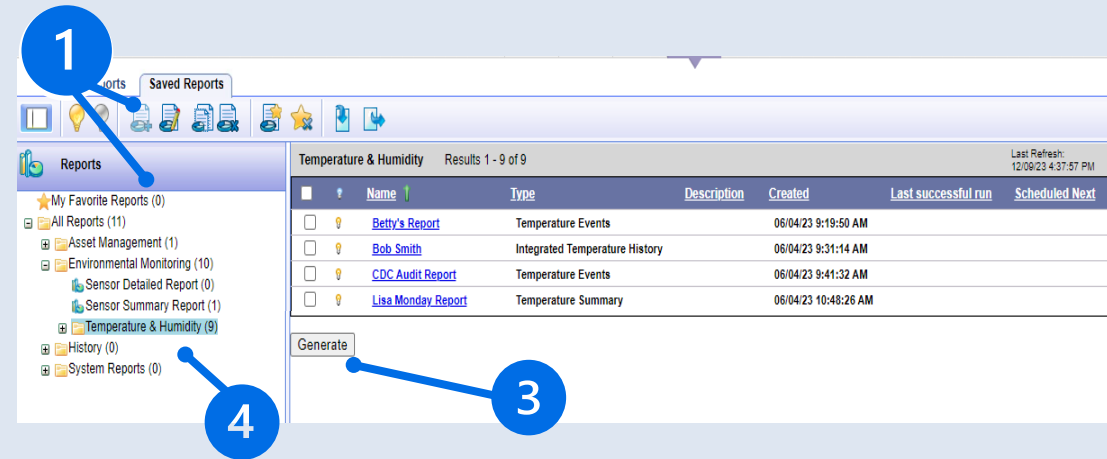
 - Name the report and select type (PDF, CSV, HTML)
 - Enter the report parameters, Columns, Output Sorting
 - Fields vary based on report type selected
- 4**

 - Click the Generate button to create the report

The screenshot shows the 'Instant Reports' interface. On the left, a navigation pane lists various report categories under 'Environmental Monitoring'. The main area displays a grid of report thumbnails. A configuration window is open on the right, showing fields for 'Report Title', 'Format' (set to PDF), and 'Parameters'. The 'Parameters' section includes 'Category' and 'Group' dropdowns, and three 'Custom property' dropdowns with 'AND' operators. The 'Column Selection' section has two columns: 'Available' and 'Selected', with 'Copy All', 'Copy', 'Remove', and 'Remove All' buttons. The 'Output Sorting' section has an 'Order By' dropdown set to 'Parent Category' and radio buttons for 'Ascending' (selected) and 'Descending'. A 'Generate' button is at the bottom of the configuration window.

To create a saved report:

- 1 - Clicked the Saved reports tab and select a report
- Click the Add Saved Report icon
- 2 - Complete the following:
 - Report Details
 - Report Specifications
 - Report Scheduling
 - Output Options
 - Access Control
- 3 To manually generate a report:
 - Select the report and click generate to retrieve the newest data
- 4 Saved reports are now listed in the Reports panel



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

Battery Level Report

Report run by: MobileView Admin, 23/10/18 10:17:45 PM Signed By:

Category: All Assets

Include tags which are not associated with assets: Yes

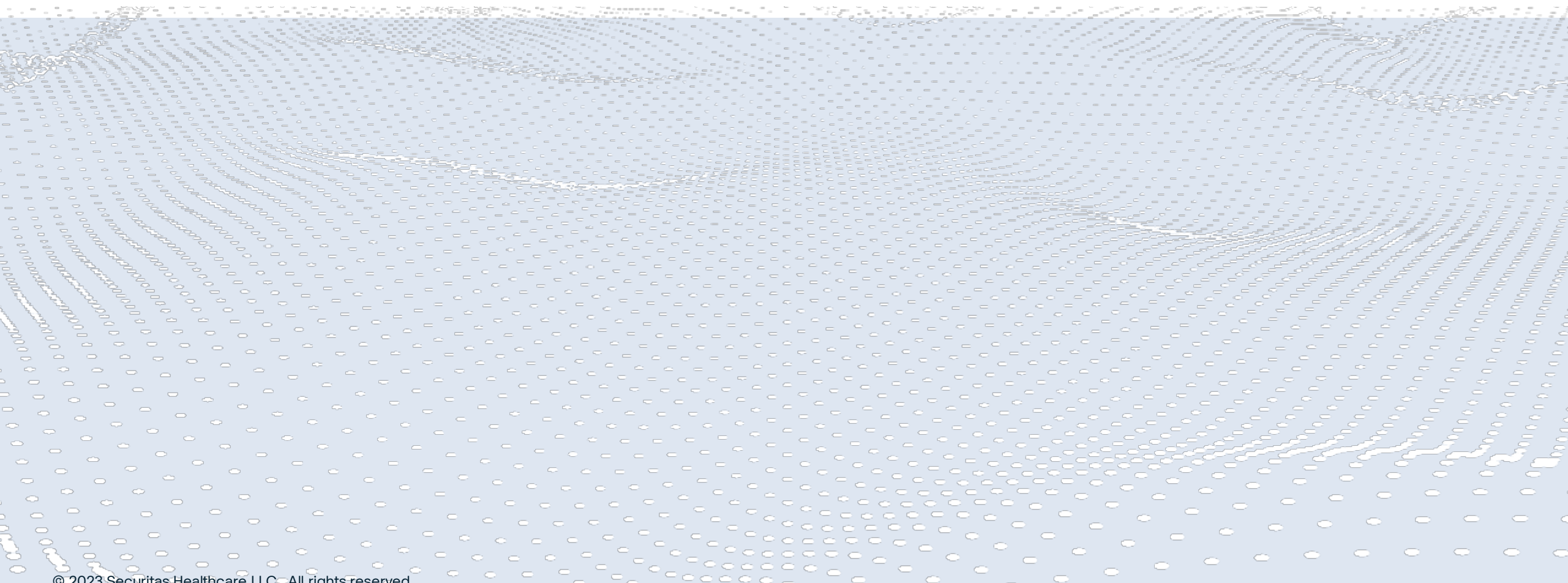
For tags which do not report remaining capacity: All tags (no filter)

For tags which report remaining capacity: All tags (no filter)

Tag Battery Level Distribution

Tag ID	Tag Model	Asset Name	Battery / PWR	Last Report Date	Last Battery Replacement Date	Estimated Remaining Battery Capacity (%)	Estimated Remaining Battery Life	Estimated Replacement Date
Period Time:		Remaining battery life between 6 months and 1 year						
Total:		1						
000CCC45DB5E	Pharm Fridge 3		Medium	03/16/20 11:35:29 AM		46.0	9 months	Dec, 2020
000CCC17638D	T15e	VFC Fridge 1	High / Not PWRD	03/16/20 11:34:18 AM		96.200005	2 year(s) and 2 month(s)	May, 2022
000CCC45D1EF	Lab Fridge		Medium / PWRD	03/16/20 11:34:27 AM		63.5	1 year(s) and 4 month(s)	Jul, 2021

EM – Report Types



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

Temperature Summary

Report run by: MobileView Admin, 11/29/17 12:46:14 AM

Signed By:

Period: 11/28/17 4:50:00 PM - 11/29/17 12:46:13 AM

Category: MCC

Assets located in: Any Location

Only units reporting out of range: No

Asset Name	Current Location	Range	Temperature (°F)	Min	Max	Avg	# of Alerts	# of Alerts Pending Corrective Action	Last Report Date
Cath Lab East 1	RRMC/Floor 2	36.0 °F to 46.0 °F	42.8	42.7	43.7	43.1			04/30/18 2:57:33 PM
Main OR Room 1	RMC/Floor 2/OR 1	68.0 °F to 74.0 °F	69.2						
Main OR Room 2	RMC/Floor 2/OR 2	68.0 °F to 74.0 °F	69.9						

Temperature History

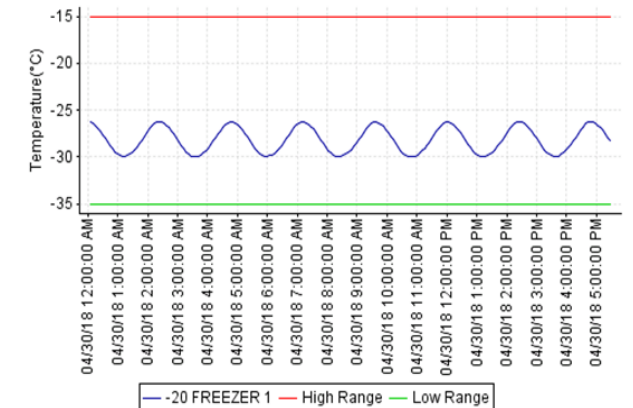
Report run by: MobileView Admin, 04/30/18 5:32:28 PM

Signed By:

Period: 04/30/18 12:05:00 AM - 04/30/18 5:32:27 PM

Asset: -20 FREEZER 1

Asset Name: -20 FREEZER 1
 Asset ID:
 Description:
 Category: SLH-Medication Freezers
 Range: -35.0 °C / -31.0 °F to -15.0 °C / 5.0 °F
 Department: SLH IDS



Current Temperature Report

Report run by: MobileView Admin, 16/03/20 11:05:29 AM

Department: SHMC-Pharmacy

Assets located in: Any Location

Only units reporting out of range: No

Asset Name	Category	Range	Temperature (°C)	Date
Nutrition Fridge 1	SHMC-Nutrition Fridge	2.0 °C to 8.0 °C	19.18	16/03/20 11:05:29 AM
Nutrition Fridge 2	SHMC-Nutrition Fridge	2.0 °C to 8.0 °C	-1.6	16/03/20 10:56:58 AM
Pharm Fridge 2	SHMC-Med Fridge	2.0 °C to 8.0 °C	3.09	16/03/20 10:56:58 AM
Pharm Fridge 3	SHMC-Med Fridge	2.0 °C to 8.0 °C	19.53	16/03/20 11:05:29 AM
VFC Fridge 1	SHMC-VFC Fridges	2.0 °C to 8.0 °C	1.41	16/03/20 11:05:29 AM

Total number of results: 5

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

Past Temperature Report

Report run by: MobileView Admin, 04/30/18 5:33:57 PM

Signed By:

Period: 04/30/18 5:35:00 PM

Asset: Central RX Refrigerator, Chemo Refrigerator

Assets located in: Any Location

Only units reporting out of range: No

Asset Name	Category	Range	Temperature	Date	Location	Tag ID
Central RX Refrigerator	CMH-Medication Refrigerators	2.0 °C / 35.6 °F to 8.0 °C / 46.4 °F	5.9 °C / 42.63 °F	04/30/18 5:31:42 PM	Cushing Memorial Hospital/Cushing Hospital/MH2	000CCC45A938
Chemo Refrigerator	SLH-Medication Refrigerators	2.0 °C / 35.6 °F to 8.0 °C / 46.4 °F	5.25 °C / 41.45 °F	04/30/18 5:31:50 PM	Saint Lukes Hospital/Main Hospital/MH B	000CCC459E43

Total number of results: 2

04/30/18 5:33:59 PM

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

Temperature Events

Report run by: Admin MobileView, 09/27/22 13:24:28

Signed By:

Period: 09/24/22 00:05:00 - 09/27/22 13:24:27

Event Occurred in: Any Location

Event Status: Pending, Dismissed

Event Name	Asset Name	Category	Date	Temperature (°C)	Event Condition	Reason	Corrective Action
Temp out of Range - 15 min	VFC Fridge 1	SHMC-VFC Fridges	16/03/20 11:22:18 AM	1.25	< 2.0 OR > 8.0	Temperature event conditions have been met	MobileView Admin (16/03/20 11:24:17 AM) Action Taken: Moved Contents Description: Relocated contents to pharm fridge 4.
Temp out of Range - 15 min	Pharm Fridge 3	SHMC-Med Fridge	16/03/20 11:22:15 AM	19.53	< 2.0 OR > 8.0	Temperature event conditions have been met	MobileView Admin (16/03/20 11:24:52 AM) Action Taken: Closed Door Description: Noticed door was opened/@ closed and re-checked seal.
Temp out of Range - 30 min	Lab Freezer 1	SHMC-Bone Freezer	16/03/20 11:21:49 AM	-14.29	< -30.0 OR > -25.0	Temperature event conditions have been met	MobileView Admin (16/03/20 11:25:16 AM) Action Taken: Contacted Maintenance Description: Contacted maintenance - second notification.

- 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

Date	Temperature	RH in [%]	Range	Asset Name
Asset Name: Blood Freezer, Hosp Lab Svcs, Rm 1609A				
Range: <-20.0 °C / -4.0 °F				
Asset ID: 000CCC713CA3				
Category: Hedrick-Blood/Chem Freezers, Hedrick-Temperature				
04/30/18 12:36:11 AM	-31.16 °C / -24.09 °F		<-20.0 °C / -4.0 °F	Blood Freezer, Hosp Lab Svcs, Rm 1609A
04/30/18 12:31:05 AM	-31.19 °C / -24.14 °F		<-20.0 °C / -4.0 °F	Blood Freezer, Hosp Lab Svcs, Rm 1609A
04/30/18 12:25:59 AM	-30.94 °C / -23.89 °F		<-20.0 °C / -4.0 °F	Blood Freezer, Hosp Lab Svcs, Rm 1609A
04/30/18 12:20:51 AM	-30.79 °C / -23.41 °F		<-20.0 °C / -4.0 °F	Blood Freezer, Hosp Lab Svcs, Rm 1609A
Asset Name: Blood/Chem Freezer, Hosp Lab Svcs, Rm 1609D				
Range: <-20.0 °C / -4.0 °F				
Asset ID: 000CCC550DF4				
Category: Hedrick-Blood/Chem Freezers, Hedrick-Temperature				
04/30/18 12:35:49 AM	-31.97 °C / -25.55 °F		<-20.0 °C / -4.0 °F	Blood/Chem Freezer, Hosp Lab Svcs, Rm 1609D



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

Integrated Temperature History				
Report run by: MobileView Admin, 03/16/20 11:30:00 AM				Signed By:
Period: 03/13/20 - 03/16/20				
Category: SHMC-VFC Fridges				
Regular reports: Show only reports which occurred at - 03:00, 15:00				
Show events: Yes				
Show corrective actions for events: Yes				
Date	Time	Type	Description	Temperature (°C)
Range:		2.0 °C to 8.0 °C		
Device:		VFC Fridge 1		
03/14/20	3:04:24 AM	Regular Report		2.32
03/14/20	3:04:23 PM	Regular Report		0.22
03/15/20	3:04:22 AM	Regular Report		1.02
03/15/20	3:04:20 PM	Regular Report		1.82
03/16/20	3:04:19 AM	Regular Report		1.32
03/16/20	8:52:19 AM	Alert! Temp out of Range - 15 min	Notifies when temperatures are reported out of range for 15 minutes.. Temperature when alert fired: 1.66	1.66
03/16/20	8:55:19 AM	Alert! Temp out of Range - 30 min	Alerts when temp thresholds have been violated (second offense).. Temperature when alert fired: 1.61	1.61
03/16/20	11:10:34 AM	Corrective Action (Temp out of Range - 30 min)	MobileView Admin : Adjusted Thermostat	
03/16/20	11:18:09 AM	Corrective Action (Temp out of Range - 15 min)	MobileView Admin : Contacted Maintenance : Second alert: Contacted Facilities Maintenance.	
03/16/20	11:20:19 AM	Alert! Temp out of Range - 30 min	Alerts when temp thresholds have been violated (second offense).. Temperature when alert fired: 1.25	1.25
03/16/20	11:22:18 AM	Alert! Temp out of Range - 15 min	Notifies when temperatures are reported out of range for 15 minutes.. Temperature when alert fired: 1.25	1.25
03/16/20 11:30:01 AM				Page 1 of 2



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

VFC Audit Report				
Report run by: MobileView Admin, 03/16/20 11:42 AM			Signed By:	
Period: 03/02/20 11:45 AM - 03/16/20 11:42 AM				
Category: SHMC-VFC Fridges				
Audit Time	Asset Name	Last Reported Temperature (°C)	Min Reported Temperature (°C)	Max Reported Temperature (°C)
03/03/20 9:27 AM	VFC Fridge 1	17.17	15.16	19.54
03/04/20 9:00 AM	VFC Fridge 1	1.27	-0.69	17.7
03/04/20 3:06 PM	VFC Fridge 1	3.67	-0.88	4.19
03/05/20 5:30 PM	VFC Fridge 1	2.18	-0.87	4.46
Total number of results: 4				



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

Sensor Summary Report

Report run by: Pamela Zukowski, 09/01/23 3:08 PM

Period: 08/25/23 - 09/01/23

Include Graphs (Only available

Asset Name: Vaccine1

Tag Id: 000CCC000007

Category: Vaccine Refrigerator

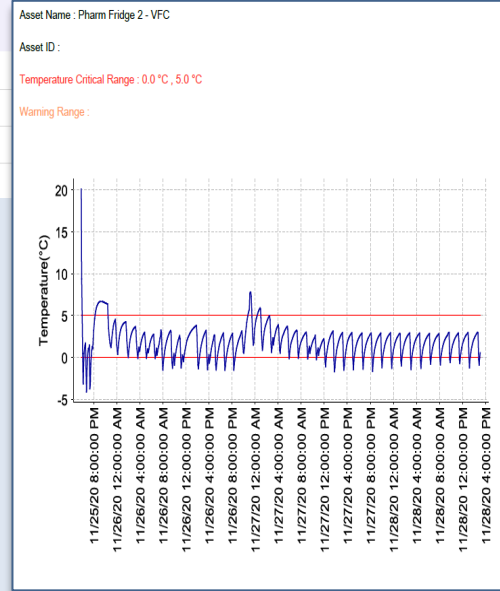
Current Location: SHMC/Main

Temperature Range: 35.6 °F to

Current Status: ACTIVE

Date	Min (°F)	Max (°F)	Avg (°F)	MKT (°F)	Min(%)	Max(%)	Avg(%)	# of Alerts	# of Alerts Pending Corrective Action
08/29/23	41.0	41.0	41.0	41.0					
08/28/23	41.0	41.0	41.0	41.0					
08/27/23	41.0	41.0	41.0	41.0					
08/26/23	41.0	41.0	41.0	41.0					
08/25/23	-1.52	7.79	1.83	1.82				16	16
08/24/23	-4.1	20.09	3.61	3.57				6	6

Last Location:	SHMC/Main Hospital/Basement/Pharmacy			
Asset Name:	Vaccine1			
Temperature Range:	35.6 °F to 46.4 °F			
Asset ID:				
RH Range:				
08/31/23	39.92	39.92	39.92	39.92
08/30/23	39.92	39.92	39.92	39.92
08/29/23	39.92	39.92	39.92	39.92
08/28/23	39.92	39.92	39.92	39.92





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

Sensor Detailed Report

Report run by: Pamela Zukowski, 09/01/23 3:01 PM

Period: 08/25/23 - 09/01/23

Include Events: Yes

Include Readings: Yes

Include Graphs (Only available for PDF format): Yes

Include Manual Audit (VFC): Yes

Reporting Intervals: Every 1 hour

Asset Name: OR2

Tag Id: 000CCC000002

Category: OR 18 to 22 C, 40 to 60 %

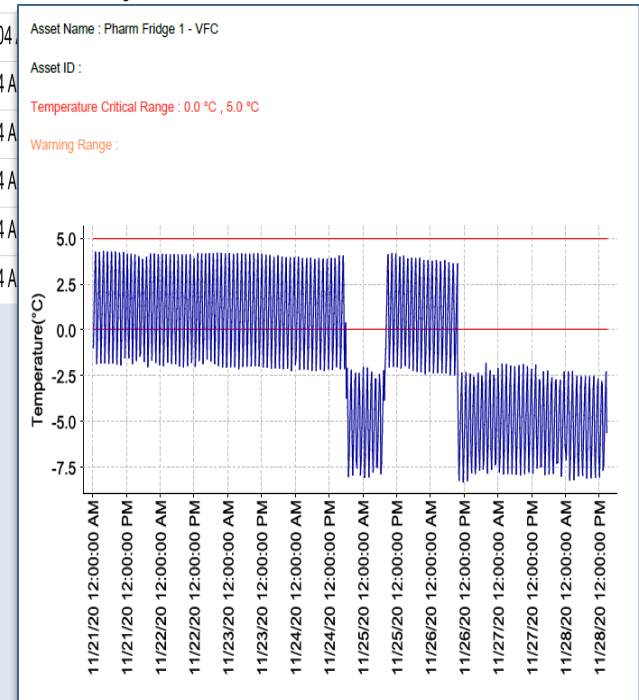
Current Location: SHMC/Main Hospit.

Temperature Range: 64.39 °F to 71.5°

RH Range: 40.0 to 60.0

Current Status: ACTIVE

Date	Time	Report Type	Temperature (°F)	RH in [%]	Notes
09/01/23	2:04 PM	Regular	68.0	49.0	
09/01/23	1:04 PM	Regular	68.0	49.0	
09/01/23	12:04 PM	Regular	68.0	49.0	
09/01/23	11:04 AM	Regular	68.0	49.0	
09/01/23	10:04 AM				
09/01/23	9:04 A				
09/01/23	8:04 A				
09/01/23	7:04 A				
09/01/23	6:04 A				
09/01/23	5:04 A				



Securitas Healthcare

