BlackBerry radar

BlackBerry Radar Dashboard

User's Guide

August 2017

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1 Overview

As a user, you can retrieve asset information from the BlackBerry Radar Dashboard, but you have very limited access to modifying asset configurations. If you need configuration changes, speak to an admin user of the application.

The BlackBerry Radar Dashboard lets you access asset tracking information through:

- The Dashboard map
- The Dashboard main menu

This guide provides step-by-step directions on how to use the Dashboard map and the main menu to track information about your assets.

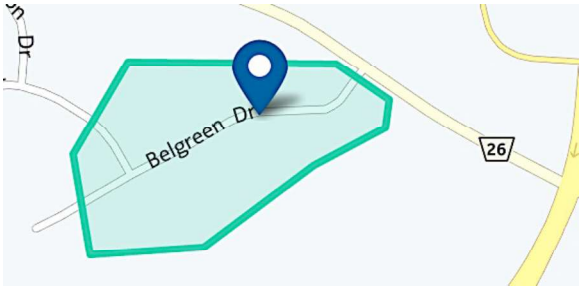
Note: As a user, you can retrieve asset information, but you have very limited access to modifying asset configurations. If you need configuration changes, speak to an admin user of the application.

1.1 The Dashboard map

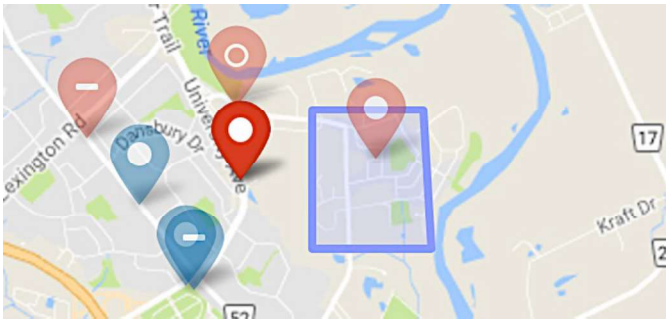
The Dashboard map opens when you sign in to the Dashboard. It presents assets, geofences, and other related information through commonly used map markers and features. You can choose what types of asset information to display on the map using the map layers button  at the upper right corner of the map.

The map layers include:

- **Geofences**: A coloured polygon represents a geofence on the map.



- **Asset markers**: A balloon-shaped marker represents an asset on the map. When an asset is selected, the rest of the asset markers fade into the background.



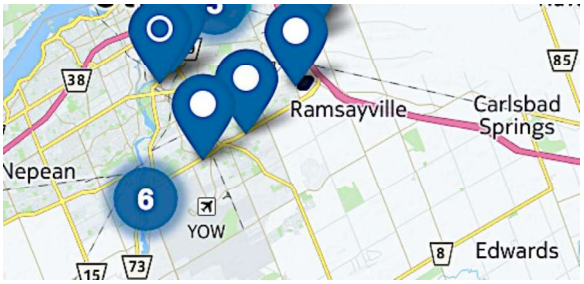
An asset marker reveals the following information about the asset:

- A red marker indicates alarm condition(s) detected.
- A blue marker indicates no alarm conditions.
- A filled circle inside the marker indicates that the asset is carrying cargo.
- An unfilled circle indicates no cargo detected.
- A dash inside the marker indicates that the asset has no cargo-sensing capability.

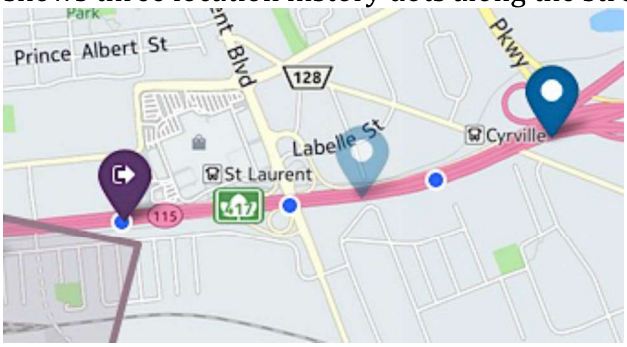
You can filter the display of asset markers by asset class, using the map layers button:

- Reefer trailer asset markers
- Dry trailer asset markers
- Heated trailer asset markers
- Reefer container asset markers
- Dry container asset markers
- Heated container asset markers
- Chassis asset markers
- Flatbed asset markers
- Light vehicle asset markers
- Heavy equipment asset markers
- Other asset markers

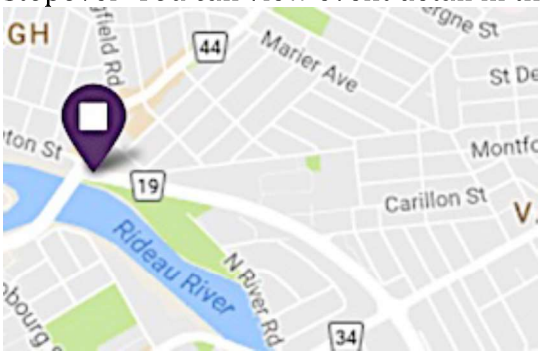
- **Asset clusters**: An asset cluster represents a cluster of assets that congregate around a small map space and that cannot be drawn individually due to space constraint. An asset cluster appears as a blue disk with a white number in the center that denotes the number of assets it represents. The image below shows an asset cluster that represents 6 assets. You can hover over or click on the marker to see details.



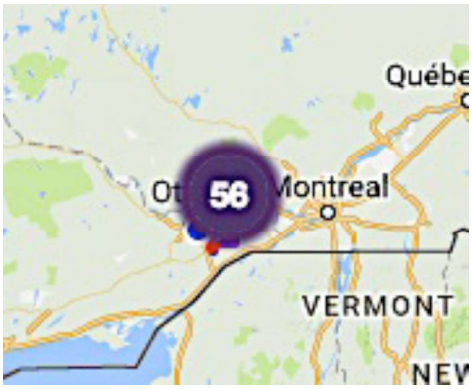
- **Location history dots**: A blue dot indicates the location from which a selected asset has sent a data upload. Only uploads that were performed during the period specified in the asset Timeline view are represented. The image below shows three location history dots along the street the asset is travelling.



- **Event markers**: A purple marker indicates the location from which an asset has recorded an event. The icon inside the marker indicates the type of event recorded. The image below shows an event marker that indicates an extended stopover. You can view event detail in the asset **Timeline** view.

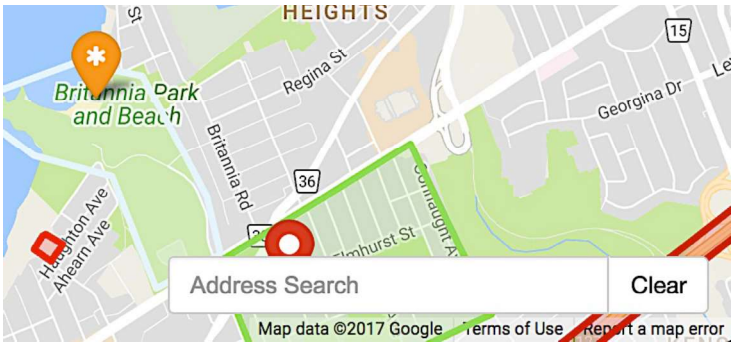


- **Event clusters**: An event cluster represents a cluster of events that congregate around a small map space and that cannot be drawn individually due to space constraint. An event cluster appears as a purple disk with a number in the center that denotes the number of events it represents. The image below shows an event cluster example. You can click on the event cluster to zoom in and see the individual events.



- **Address search results**:

  - Clicking on the yellow marker will display the address that was selected.
  - Typing and selecting a new address in the search field will move the marker to the new location.
  - To clear the marker, click **Clear**, or uncheck the Address search results box from the button



To remove any of the above map layers from the map display, use the dropdown menu from the map layers button .

1.2 The Dashboard main menu

You can access the Dashboard main menu by clicking the BlackBerry button at the upper left corner. Clicking on the menu options, you will find the following views:

- **Reports**: you to create periods that you choose.

- **Modules**: Lists all the BlackBerry Radar modules that belong to your organization, including those that are in service and those that are not. Before you can access the sensor data a module collects, the module must be associated with an asset.
- **Assets**: Displays the list of assets that have been added to the application. You can use this view to locate your assets on the map and review their status details, configuration settings, as well as any events and alerts that have occurred. To do this, your assets must first be associated with modules.
- **Asset Types**: Lists all the asset types that have been defined by your organization.
- **Geofences**: Lists all the geofences that have been defined by your organization. You can register to receive alert messages on the assets that enter and exit these geofences.
- **Alerts**: Lists all the alerts that your organization has enabled. You can register to receive notifications for individual alerts.
- **Users**: Lists all the users from your organization and their roles in the Dashboard application.

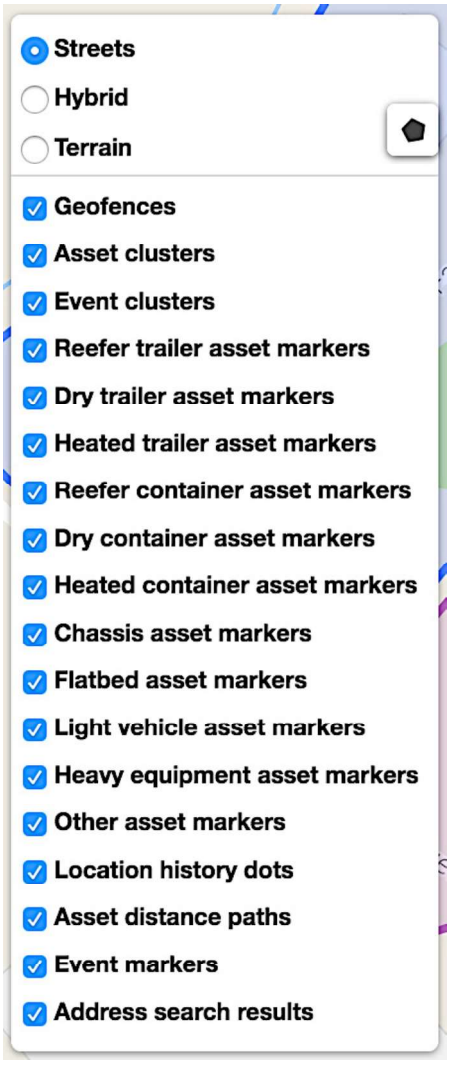
Note: Use Google Chrome to launch the BlackBerry Radar Dashboard. Other browsers are not supported.

2 Browsing the map

The BlackBerry Radar Dashboard allows you to retrieve information related to your assets.

2.1 Map settings

The Dashboard map supports a number of map views and layers. A map view is a map displayed according to a certain viewpoint, such as a 'Streets' view or a 'Terrain' view. A map layer is a collection of information that can be either displayed on the map or turned off; for example, "Geofences" is a map layer that can be turned on or off by checking or unchecking the box.



The Dashboard map displays one map view and any number of map layers at a time. By default, it displays the **Streets** view and has all map layer options turned on, as shown in the example above. You can switch to any other view and uncheck any

map layers that you don't need. Note that the selections you make here are not saved. When you sign out and sign in again, the map display will revert to default settings.

2.2 Modify map settings

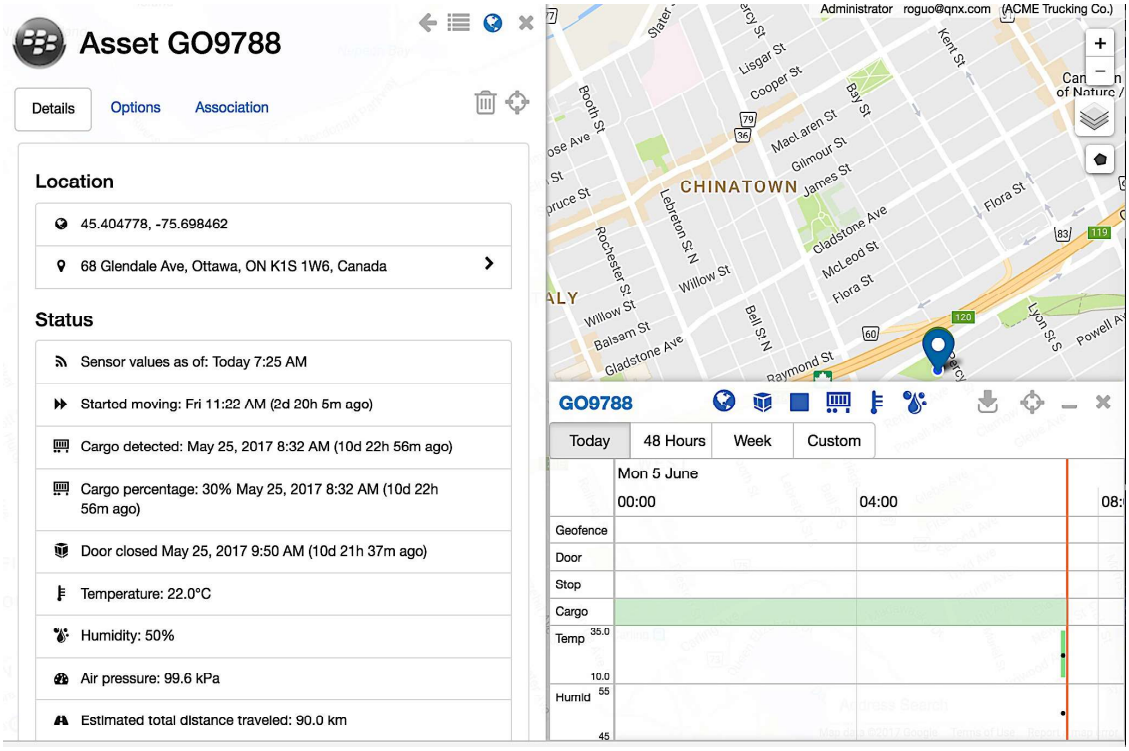
1. Click the map layers button to open the list of map layers.
2. Set the map to a view of your choice by clicking one of the radio buttons.
    - **Streets**: Default road map view
    - **Hybrid**: Combined view of satellite images and names of locations such as streets and towns
    - **Terrain**: Map view that shows terrain information such as mountains and valleys
3. To display the map layers you need, check the corresponding checkboxes; to hide the map layers you want to ignore, uncheck the boxes.

For a detailed description of the map layers, see The Dashboard map.

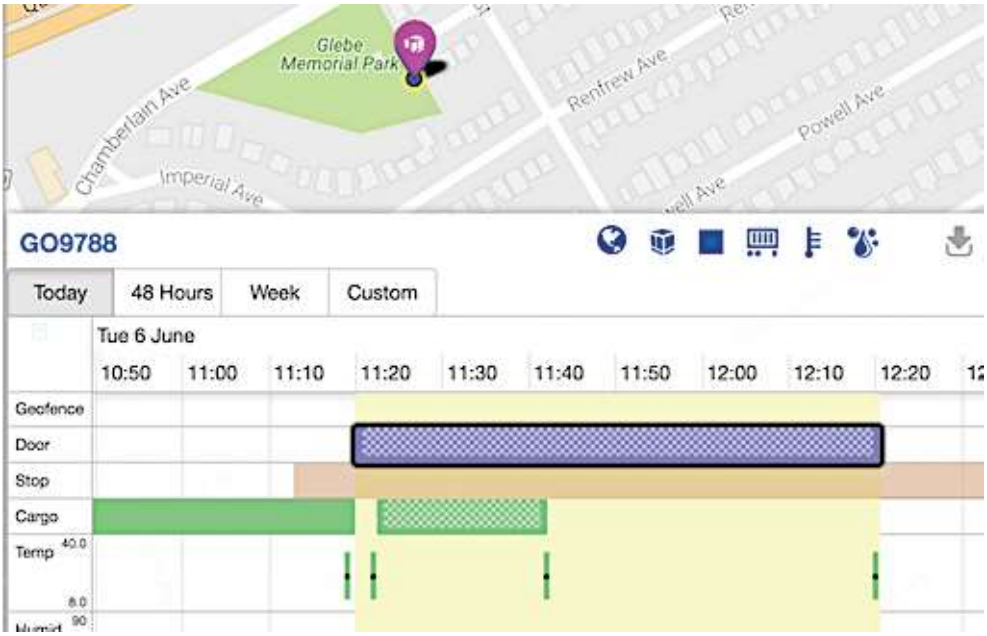
2.3 Browse asset information on the map

You can find a lot of information directly from the Dashboard map.

- On the map, clicking any asset marker will:
    - Highlight the asset on the map
    -
- The **Asset** view displays the **Details** tab. You can open other tabs to see more information.
- The **Timeline** view contains sensor reading details and events and alerts that happen in a specified time range.
- You can locate the asset on the map using the button in either view. This button works as a toggle. Click to toggle it on (button turns blue); click again to toggle it off (button turns grey).
    - When toggled on (button is blue), the selected asset is brought to the center of the map and your map view automatically follows the asset as it moves. You cannot move away from the asset on the map when the button is blue.
    - When toggled off (button is grey), the map view releases its focus on the asset and you can move to another part of the map.
- Click in the **Timeline** view to close both views.



- For any asset cluster marker,
  - Hovering your mouse over it without clicking will highlight a rectangular area, outlining the location of the clustered assets.
  - Clicking it, you'll zoom in and see the individual assets in the cluster.
  - When you click the zoom out button, an asset cluster may be formed.
- Clicking any event marker on the map highlights the event in the **Timeline** view as well as other events that happen during the same time period. Similarly, clicking any event in the Timeline highlights the event in both the map and the Timeline view. The example below shows a Door event and details in the **Timeline** view.



2.4 Event markers

the Admin Guide.

Event Marker	Description
	Battery low
	Battery OK
	Cargo detected
	Cargo unloaded (empty)
	Door open
	Door closed
	Extended stopover
	Entry into geofence

	Exit from geofence
	Movement started
	Movement stopped
	Humidity out of specified range, or humidity back in range (marker in green)
	Temperature out of specified range, or temperature back in range (marker in green)

3 Retrieving asset information

All assets are listed in the **Assets** view. You can sort the asset list by clicking column **Identifier**, **Type**, or **Created.** You can search for a specific asset and find detailed information about that asset by clicking anywhere in the asset row.

This section describes the following tasks in detail:

Task	Description
Download installation worksheet	Download the installation worksheet.
Search for an asset	Search for an asset by asset ID or by sensor data
View asset information	Retrieve information about an individual asset
View cargo state information	View cargo status information
Retrieve asset type information	Retrieve asset data and alert settings
Modify asset type	Modify the asset type
Modify asset alert settings	Modify alert configuration for an asset
Retrieve module and pairing information	See which module is associated with which asset

3.1 Download installation worksheet

The installation worksheet lists all the assets in the Dashboard application that are not yet associated with any module. If you have just added your assets to the application, those assets will appear on the installation worksheet. You can use this worksheet to help matching asset identifiers to module identifiers.

The worksheet is available for your convenience; you can use any worksheet that works best for you.

1. Open the **Assets** view.
2. Check **Only show unassociated assets** to get a list of assets not yet associated with any modules.
3. Click **Worksheet.**
4. Click **PDF Worksheet** to get the worksheet in PDF format or click **CSV Worksheet** to get the worksheet in CSV format.
5. Click **Close.**
6. Open the downloaded worksheet and print it.
7. Click  to go back to the main menu.

3.2 Search for assets

There're two ways to search for assets: search by asset ID and search by sensor data. Search by asset ID lets you find an individual asset by typing the asset identifier into the Asset Search field. You can do this either at the lower left corner of the map, or in the **Assets** view. Search by sensor data lets you find assets that share certain sensor data characteristics, such as assets that are not loaded.

The **Assets** view contains the complete list of all the assets that your administrator has entered into the BlackBerry Radar Dashboard. Many of these assets are already associated with BlackBerry Radar devices and are viewable on the map. Some assets, however, may represent containers that do not yet have a Radar module installed, and are therefore, not viewable on the map.

Search by asset ID will find any asset in the BlackBerry Radar Dashboard, regardless of its association with a Radar module.

Sensor search only works for those assets that are associated with a module, because the search is based on asset data received from the sensors on the Radar module.

3.2.1 Search by asset ID

Using the **Asset Search** field, you can filter through the complete assets list.

1. Click  and then click **Assets** to open the **Assets** view.
2. In the **Asset Search** field, start typing the asset identifier. A filtered list will appear that matches the partial or complete asset identifier you have entered.

3.2.2 Search by sensor data

Using the **Sensor Search** button, you can perform searches on the assets that have sensor data. Sensor data is grouped into the following search criteria:

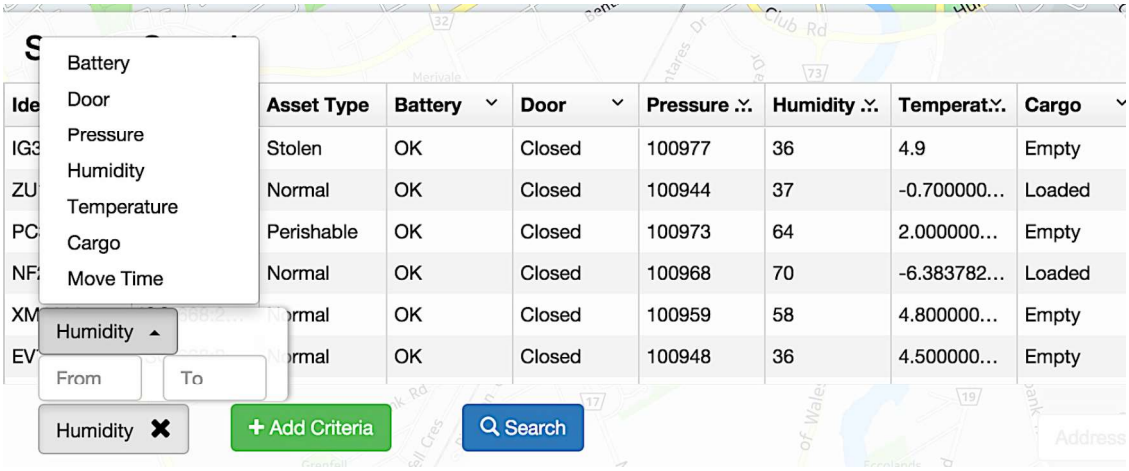
Criteria	Description
Battery	State of the battery: OK or Not OK (needs replacement)
Door	State of the door: Open or Closed
Pressure	Air pressure range
Humidity	Humidity range in percentage
Temperature	Temperature range
Cargo	State of cargo: Detected (carrying cargo) or Empty (not carrying cargo)

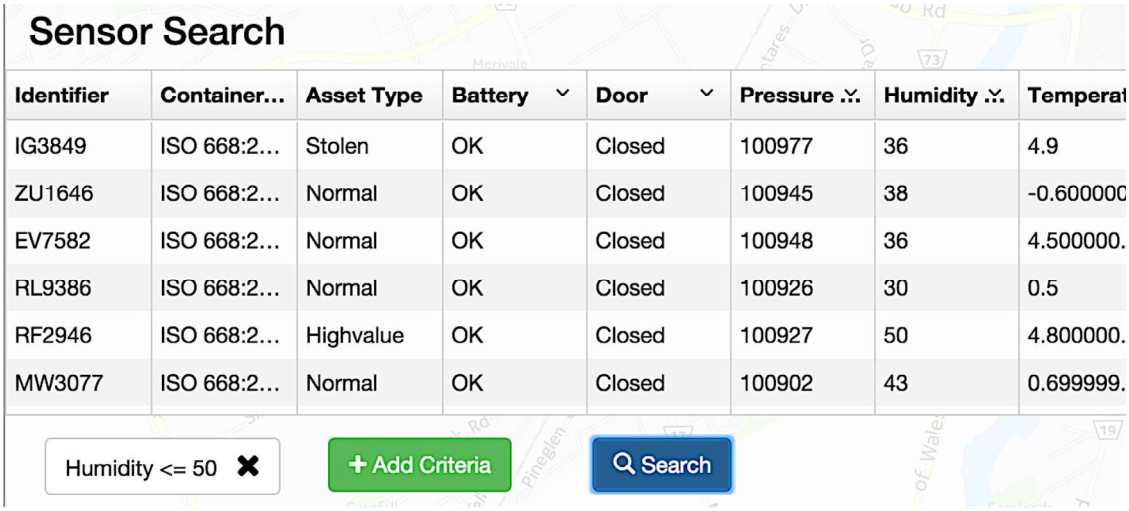
To search by sensor data:

1. In the **Assets** view, click **Sensor Search**.

1. Enter your search criteria:
    1. Click **Add Criteria.**
    2. Click **Criteria….**
    3. Click the dropdown button to display a list of criteria.
    4. Select a criterion from the list.
    5. Depending on the criterion selected, you can do one of the following:
        - Click the button to toggle the criterion value
        - Enter a range of values
    6. Click on the criterion button to accept your value(s).
    7. Repeat previous steps to add more criteria, or click the ✖ button next to a criterion to remove it.
3. Click **Search.**
4. Each time you make changes to the search criteria, click **Search** again.

The following examples demonstrate the search process.

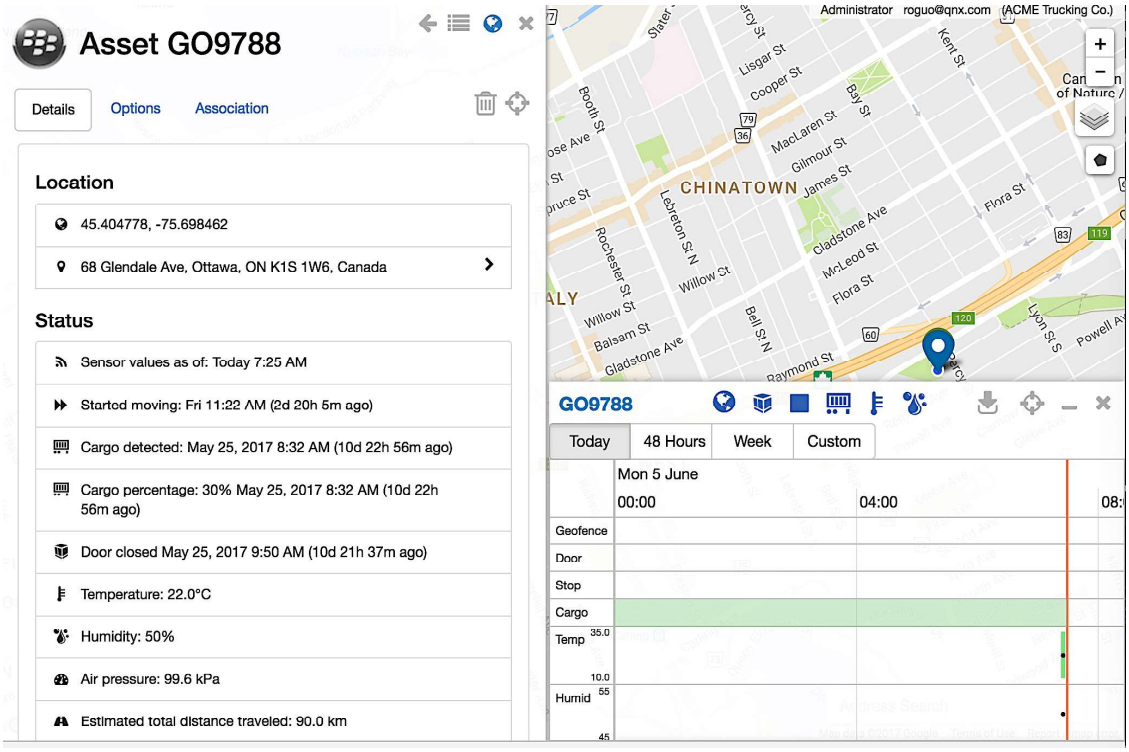




3.3 View asset information

To find information about a particular asset:

1. Click and then click **Assets** to open the **Assets** view.
2. Click your asset in the assets list. This opens two view:
   - The **Asset** view on the left, displaying the **Details** tab
   - The **Timeline** view at the bottom



3. The **Details** tab displays asset information in three sections: **Location**, **Status**, and **Details**. Note that due to differences in hardware configuration, information in the **Status** area is different between assets that are associated with Radar modules and assets that are associated with Radar-L modules.
   - **Location**: The location of the asset. This may include:
     - GPS location
     - Name of the geofence if the asset is in one
     - Address of the asset location
   - **Status**: The latest sensor readings. For an asset that is associated with a Radar module, this may include:
     - Latest sensor reading time
     - Asset movement
     - Cargo state
     - Door state

    - Battery state
    - Environmental readings including temperature, humidity, and air pressure
    - Estimated distance that the asset has travelled
    - Alerts that have been triggered. Any alerted condition is highlighted in a red warning message indicating both the alert and the expected value.
- **Status**: For an asset that is associated with a Radar-L module, this may include:
    - Latest sensor reading time
    - Asset movement
    - Door state
    - Battery state
    - Estimated distance that the asset has travelled
    - Alerts that have been triggered regarding the above conditions.
- **Details**: Asset details including:
    - Asset properties such as asset type and dimensions
    - The module associated with this asset

4. Click **Options** to open the **Options** tab and view asset data settings.