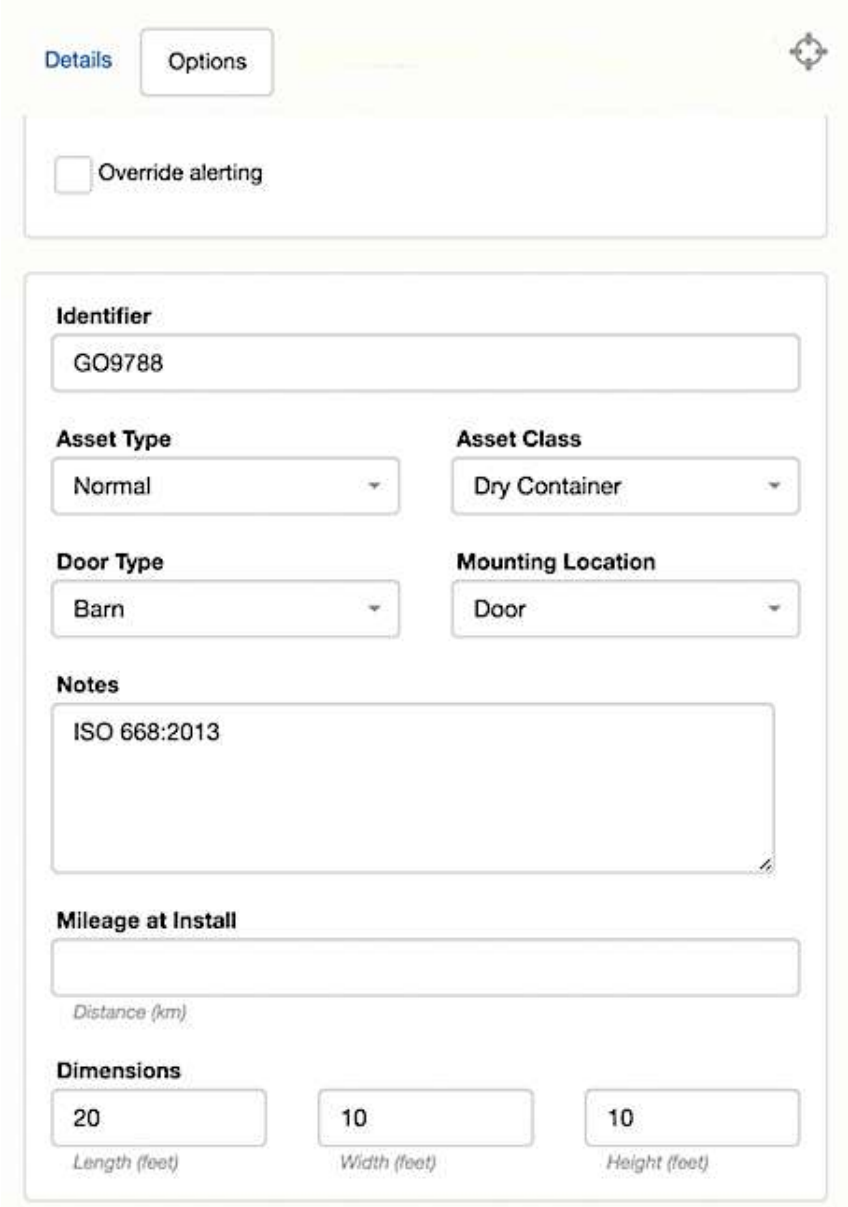


5. The view shows sensor reading values and asset events and alerts during a specified time range.
   - Click any event in the view to locate it on the map.
   - See
6. Toggle on in either view to locate the asset on the map. This also allows you to follow the asset on the map.
7. Click ✖ in the view to close the view. This will extend the view to the full width of the application window. Click the asset ID in the view to bring back the view.
8. To close both views, click ✖ in the view.

3.4 View cargo state information

To find the cargo state of a particular asset:

1. Open the **Assets** view.
2. Click on the asset in the assets list. The asset **Details** tab on the left displays asset information in three sections.
3. In the **Status** section, find cargo state information. When asset is loaded, you will see "Cargo detected" and a cargo percentage number. When cargo is unloaded, the cargo state displays "Cargo emptied" and a cargo percentage of 0%.
4. Cargo state is also shown in the **Timeline** view below the map.
5. Hover over the Cargo event bar in the **Timeline** view to see event detail.

Note: Cargo state information is not available for assets that are associated with Radar-L modules.

3.5 Retrieve asset type information

An asset type defines a common alerting configuration for assets that share that configuration. For example, your organization may have defined an asset type for assets that carry cargo of high value. This asset type may include more alerts that other types, such as alerts that report changes in door state and cargo state, and alerts that report unusual changes in temperature and humidity.

To retrieve an asset type:

1. Open the **Asset Types** view.
2. Click an asset type to view details. The **Alert On** area lists all the alerts configured for this asset type and their applicable values.
    - **Door**: Raise an alert when the door is open.
    - **Cargo**: Raise an alert when cargo is unloaded.
    - **Low battery**: Raise an alert if battery is low.
    - **Extended stopover**: Raise an alert when the asset hasn't moved for the length of time indicated by the selections.
    - **Temperature outside range**: Raise an alert when temperature is outside of the specified range.
    - **Humidity outside range**: Raise an alert when humidity is outside of the specified range.

Note: The alerts configured may not apply to all assets. For example,

- For assets that have the following Asset Class, the "Door" alert doesn't apply:
    - Chassis
    - Flatbed
    - Light vehicle
    - Heavy equipment
- For assets that are associated with Radar-L modules, the following alerts don't apply:
    - Cargo

- Temperature outside range
- Humidity outside range

3.6 Modify asset type

You may modify the asset type of an asset in its **Options** tab.

1. Open the **Assets** view.
2. Click the asset you want to modify.
3. Click **Options** to open the **Options** tab.
4. Select a type from the **Asset Type** dropdown list.
5. Click **Save Changes**.

3.7 Modify asset alert settings

You can modify asset alert settings in the asset view.

Alert settings are defined in each asset type. When you change the alert settings for an individual asset, you change the conditions by which the corresponding events and alerts are raised for this asset. For example, changing the minimum temperature means changing the condition by which the "Temperature Low" event and alert are raised. You can go to the asset type of this asset to review its alert settings.

Note 1: For an asset that is associated with a Radar-L module, only the following alerts may be available for configuration:

- Door
- Low battery
- Extended stop over

Note 2: For any asset of the following Asset Class, the "Door" alert is not applicable:

- Chassis
- Flatbed
- Light vehicle
- Heavy equipment

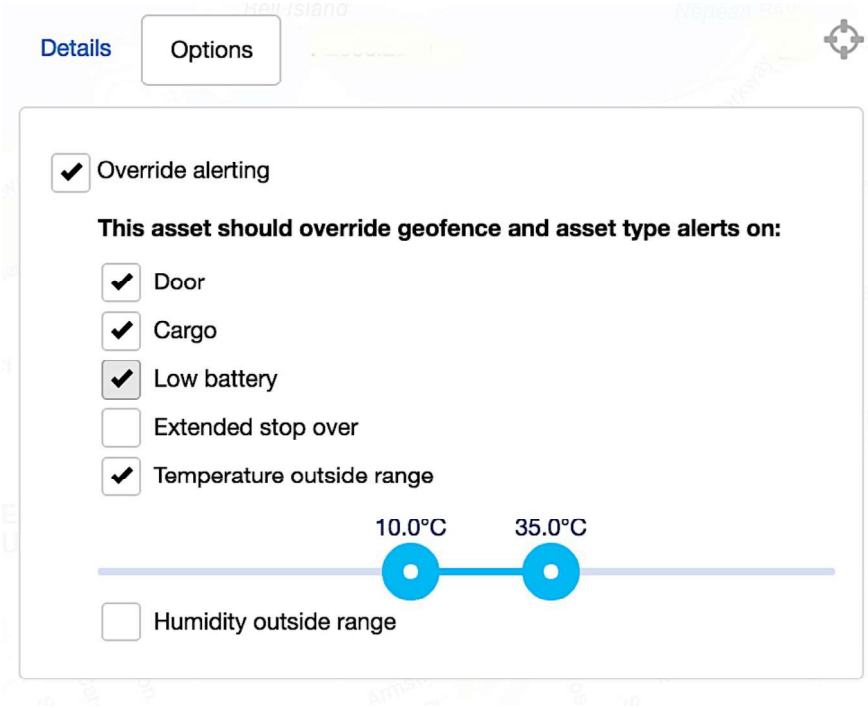
For more information about events and alerts, see "Events and alerts" in the Admin Guide.

1. Open the **Assets** view.
2. Click the asset you want to modify.
3. Click **Options** to open the **Options** tab.
4. Check the **Override alerting** box. This opens a new list of alert boxes. Note that alerts set here will override the alerts set in the asset type or the geofence. Check all the boxes that you want to override alerting for; modify the values under the alerts as needed.
   - **Door**: Raise an alert when the door is open.
   - **Cargo**: Raise an alert when cargo is unloaded.

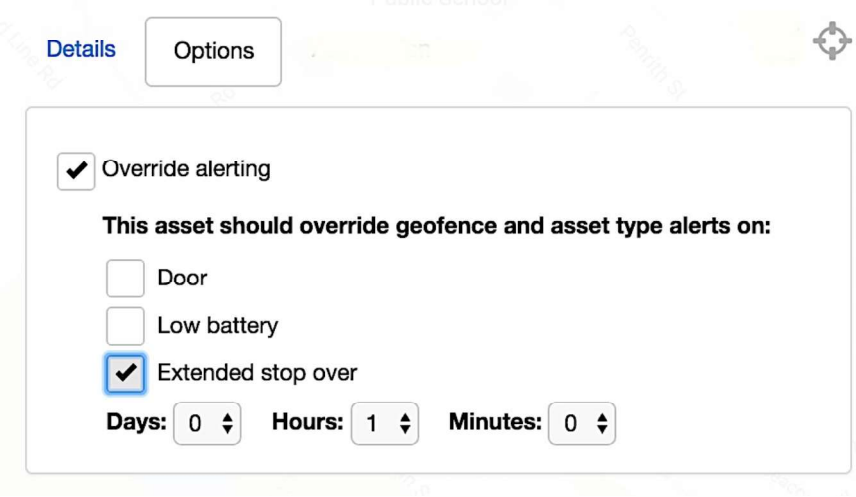
- **Low battery**: Raise an alert if battery is low.
- **Extended stop over**: Raise an alert when the asset hasn't moved for the length of time indicated by the selections. Click each box and select the value you need from the dropdown list.
- **Temperature outside range**: Raise an alert when temperature is outside of the specified range. Click and drag the blue dials to modify the temperature range.
- **Humidity outside range**: Raise an alert when humidity is outside of the specified range. Click and drag the blue dials to modify the humidity range.

5. Scroll down and click **Save Changes**.

Asset alerting override example with a Radar module:



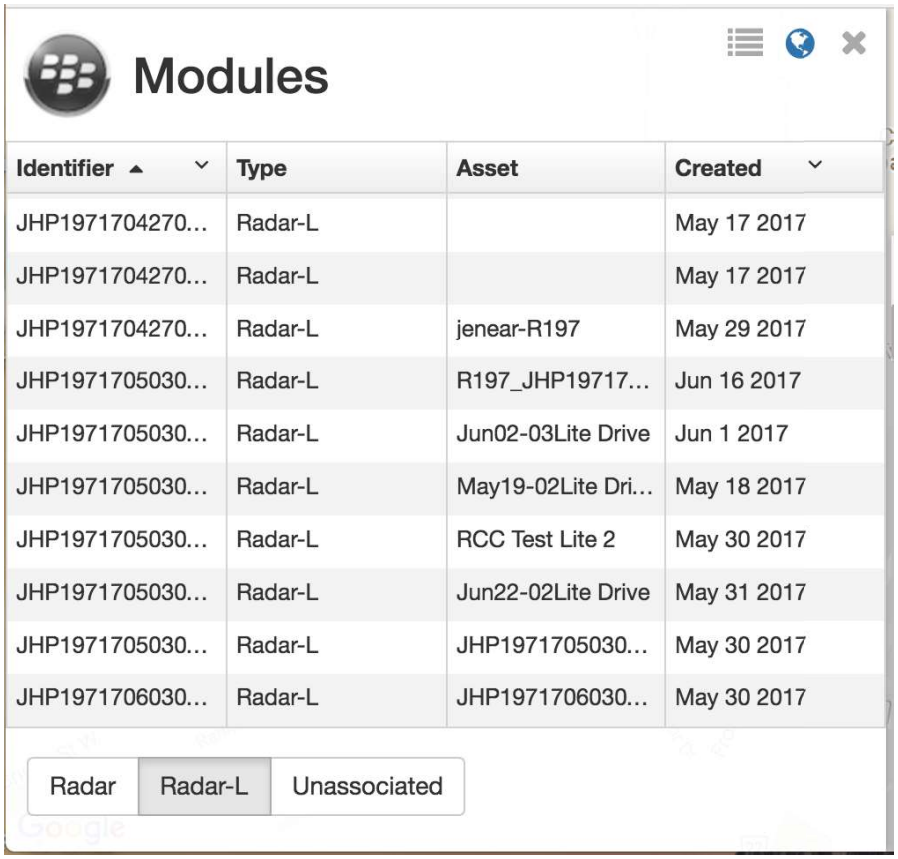
Asset alerting override example with a Radar-L module:



3.8 Retrieve modules and pairing information

After a BlackBerry Radar module is physically installed on an asset, the module identifier (serial number) must be paired with the asset in the BlackBerry Radar Dashboard. The **Modules** view lists all modules, their module types, as well as their associated assets.

1. Open the **Modules** view to see the list of modules. Modules are listed under the **Identifier** column. The **Type** column indicates the module type: Radar or Radar-L. A module's associated asset is listed in the **Asset** column.
2. You can filter the modules list using the module type or association buttons at the bottom.


Modules
Identifier
Type
Asset
Created
JHP1971704270...
Radar-L
May 17 2017
JHP1971704270...
Radar-L
May 17 2017
JHP1971704270...
Radar-L
jenear-R197
May 29 2017
JHP1971705030...
Radar-L
R197_JHP19717...
Jun 16 2017
JHP1971705030...
Radar-L
Jun02-03Lite Drive
Jun 1 2017
JHP1971705030...
Radar-L
May19-02Lite Dri...
May 18 2017
JHP1971705030...
Radar-L
RCC Test Lite 2
May 30 2017
JHP1971705030...
Radar-L
Jun22-02Lite Drive
May 31 2017
JHP1971705030...
Radar-L
JHP1971705030...
May 30 2017
JHP1971706030...
Radar-L
JHP1971706030...
May 30 2017
Radar
Radar-L
Unassociated

4 Understanding events and alerts

The Event Timeline view provides a bird's-eye view of all events that have occurred with a given asset during a specified time range. It allows one to easily call out areas to focus on and identify correlations between the events, for example, identifying times when an asset has breached the temperature thresholds that have been set.

The user can easily define which parameters are visible in the timeline view and choose a custom range or quickly access a predetermined range with a simple tab choice.

4.1 The Event Timeline view

Depending on the type of module an asset is associated with, and the Asset Class of the asset, you may see a different Timeline view in different assets.

A BlackBerry Radar module allows your asset to monitor and report the following events:

- Geofence
- Door state
- Asset movement
- Cargo state
- Temperature
- Humidity

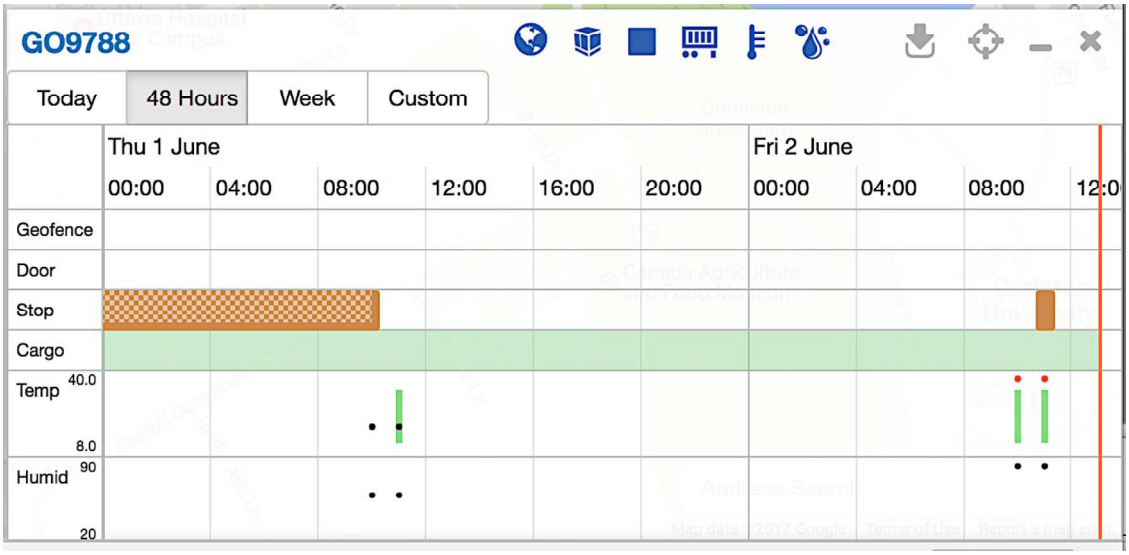
A Radar-L module allows your asset to monitor and report the following events:

- Geofence
- Door state
- Asset movement

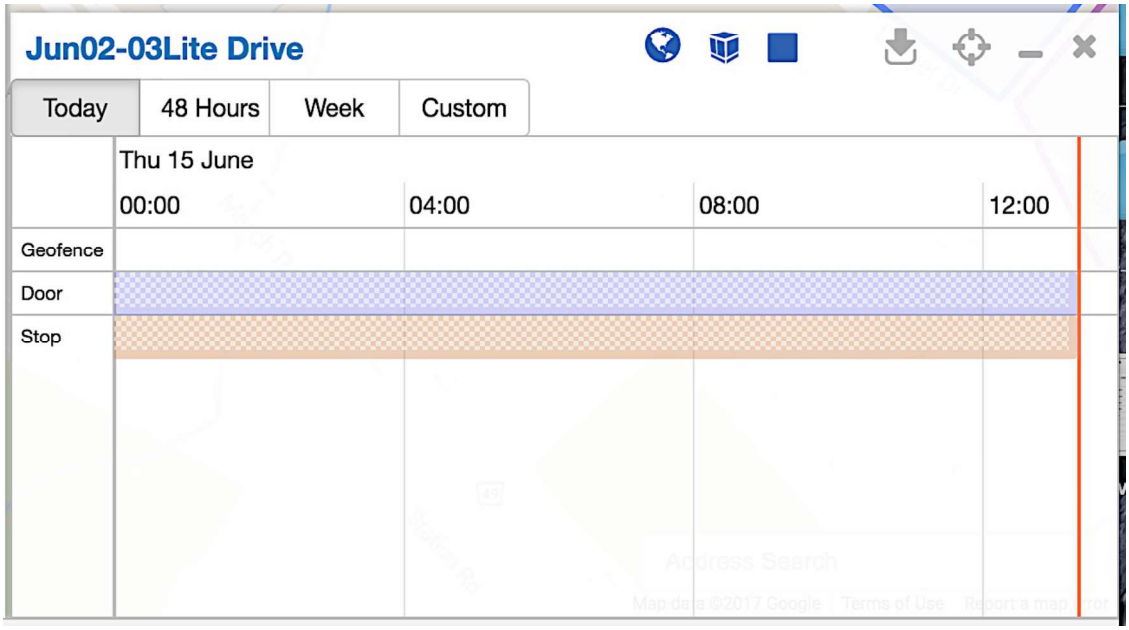
The "Door" events are not applicable to assets of the following Asset Class:

- Chassis
- Flatbed
- Light vehicle
- Heavy equipment

Timeline view - BlackBerry Radar



Timeline view - BlackBerry Radar-L



For a detailed description of the Event Timeline view, see:

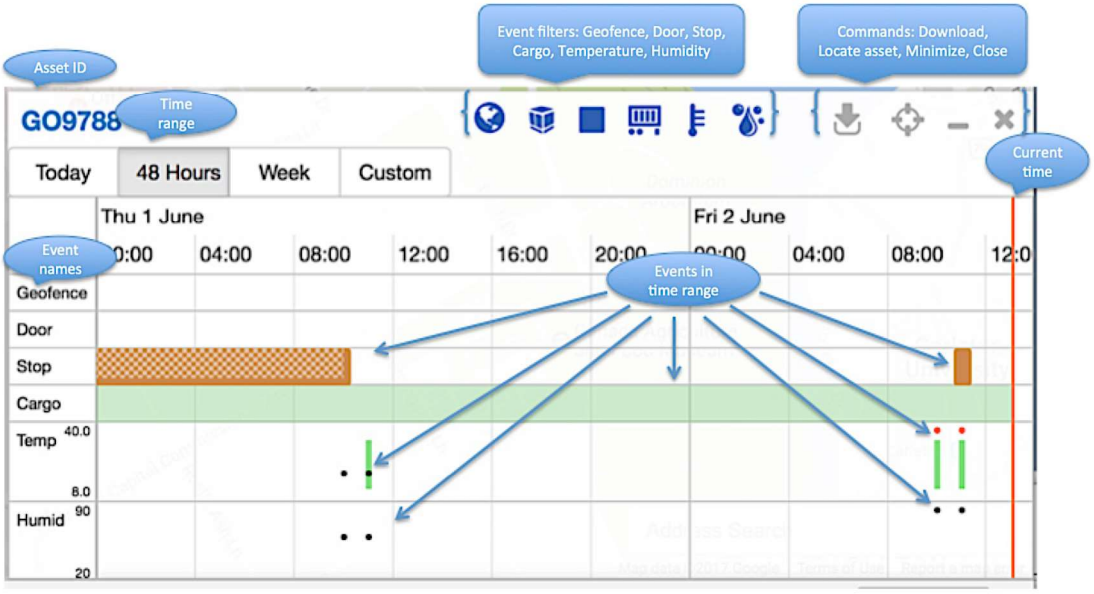
- View the Event Timeline
- Interpret the Event Timeline

4.2 View the Event Timeline

You can open the Event Timeline view in one of the following ways:

- Click the asset marker on the map, or
- Select the asset in the **Assets** view.

The Timeline view opens at the lower half of the application window.



The Timeline view shows:

- The asset identifier at the upper left corner.
- Event filter buttons at the top of the Timeline view:
  - 
  - If you asset is associated with a Radar-L module, you may see only the first three event buttons.
  - If your asset has the following Asset Class, the "Door" button is not applicable.
    - Chassis
    - Flatbed
    - Light vehicle
    - Heavy equipment
  - Click any button to hide corresponding events from the timeline. See "Filter events" for more information.
- Event timeline commands at the upper right corner:
  - : Download events in timeline. Button turns blue when selected; remains grey otherwise.
  - : Locate the asset on the map. Button turns blue when selected; remains grey otherwise.
  - : Minimize Timeline view.
  - : Close Timeline view.
- Time range buttons. Click to select a preferred range. Default range is Today.
- Events retrieved.

- The Radar module presents geofence, door, stop, cargo, temperature, and humidity readings and events.
- The Radar-L module presents geofence, door, and stop events.

The example above includes Stop, Cargo, and Temperature events as well as Humidity values. See "Interpret the Timeline view" for more information.

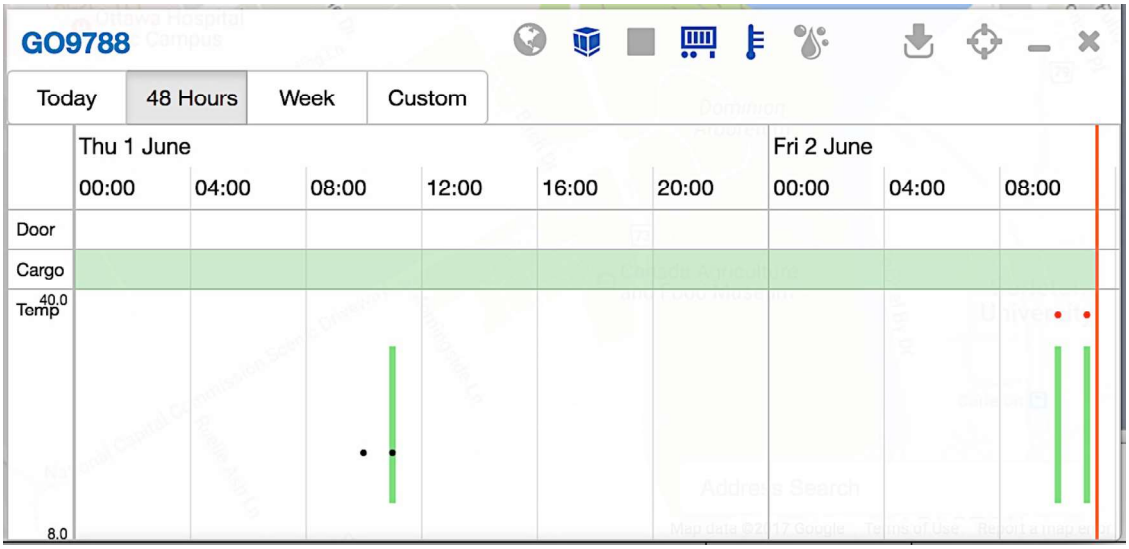
4.3 Filter events

You can filter events on the timeline using the event buttons at the top of the Timeline view. By default, the Event Timeline view includes all events. The event buttons are toggles. You can click any button to show or hide the corresponding events from the display graph.

The following table describes the event buttons:

Event button	Description
	Geofence: The geofence that the asset is in.
	Door: Asset door state change (Door Open). Not applicable to some asset classes such as chassis.
	Stop: Asset not moving. Includes Extended Stopover alert when configured.
	Cargo: Asset cargo state change (Cargo Detected). Not available in Radar-L modules.
	Temperature: Temperature reading as well as temperature events and configured temperature range, if available. Not available in Radar-L modules.
	Humidity: Humidity reading as well as humidity events and configured humidity range, if available. Not available in Radar-L modules.

The following example has Geofence, Stop, and Humidity events filtered out. The corresponding buttons change colour to grey and the events are hidden from the graph.



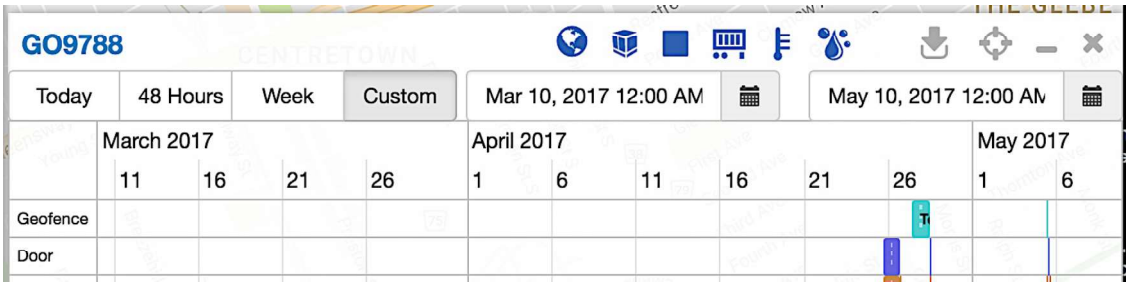
4.4 Set event time range

By default, the Event Timeline view displays all events and alerts that have occurred today. You can select a different time range -- the past 48 hours, the past week, or a custom range. The Timeline view supports a custom range of up to two months.

1. To select a custom time range, click **Custom**.
2. Click the calendar button on the left.
3. Select the start time: select the date, hour, and minute in each window that appears.
4. Use the arrow buttons to see more choices.
5. Click on the right.
6. Select the end time: select the date, hour, and minute in each window that appears.

Note: The maximum time range you can select is two months. If you select a time range larger than two months, the Timeline view automatically adjusts the range to two months.

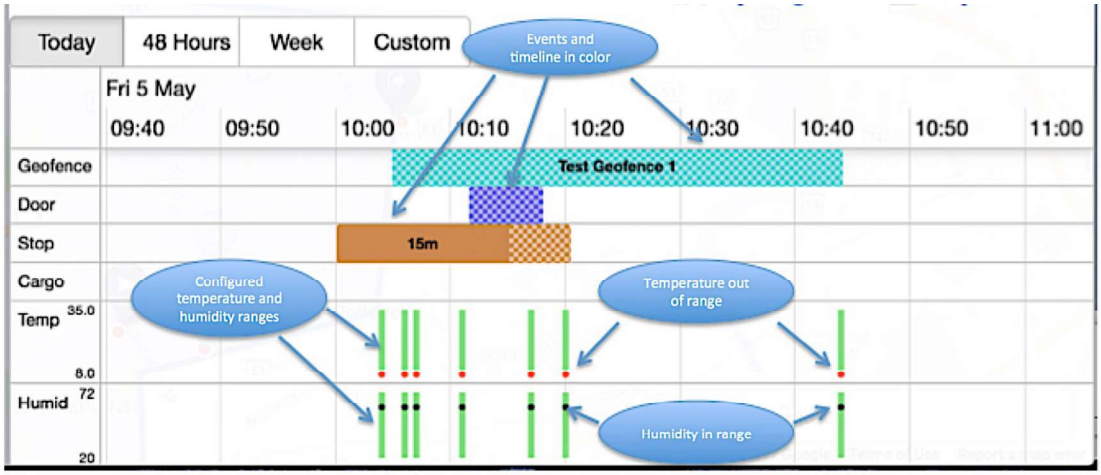
Here's an example of a custom-selected time range:



4.5 Interpret the Timeline view

The event timeline presents the history of an asset's events and alerts in colour and along a selected time range. You can select any time range, up to a period of two months, to see the events and alerts that occurred in it. Move your cursor over any event to see details.

The example below explains the event details:

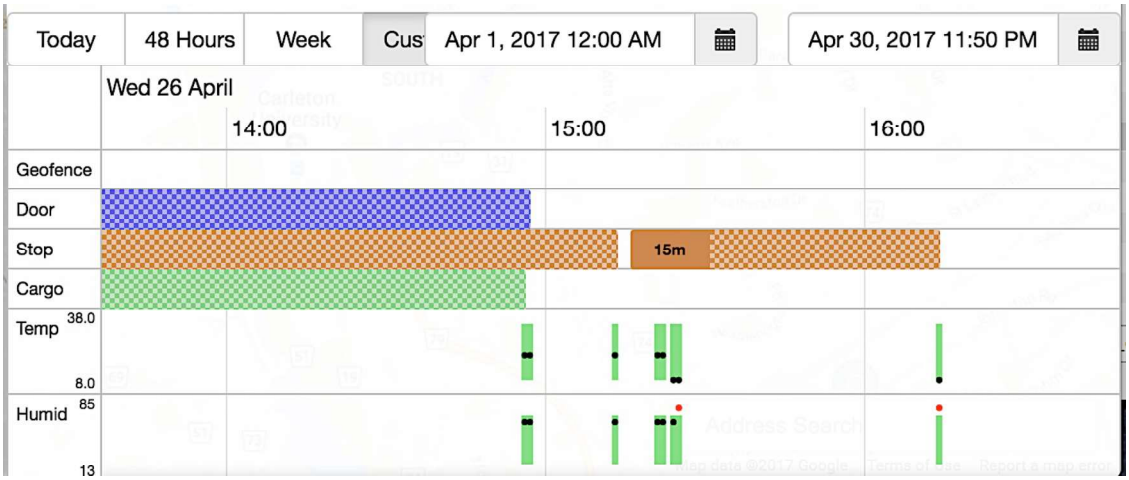


4.5.1 Zooming in and out

Within the selected time range, you can zoom in or out as you do in the map:

- Place your cursor inside the graph
- Use your mouse scroll wheel or trackpad scroll gesture to zoom in or out
- When zoomed in, click and drag across the display to see other sections of your timeline.

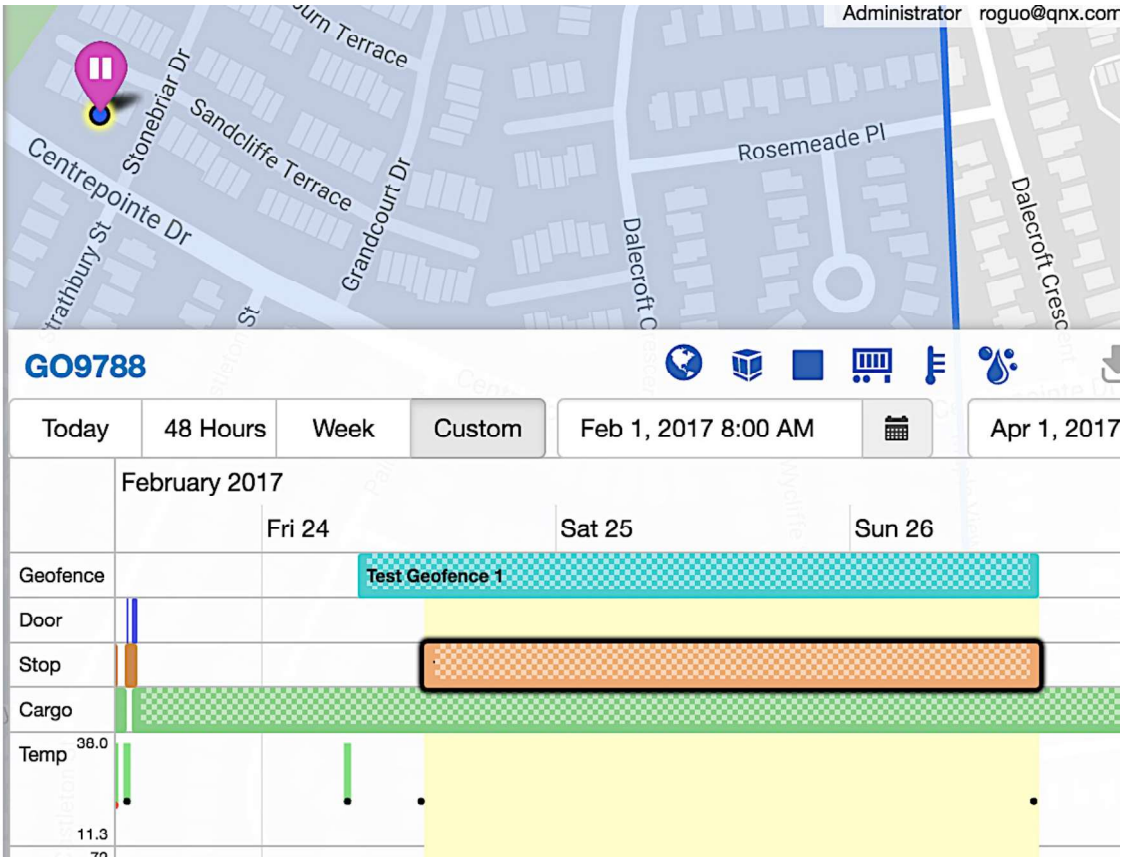
This is helpful especially when you have a long timeline. The example below has a timeline of 30 days, and is zoomed in to highlight one afternoon.



4.5.2 Zooming in on a specific event

To zoom in on a specific event, you can click the event in your Timeline view. This will:

- Highlight the time period when that event is active, along with any other events that might be happening at the same time
- Zoom in on and highlight the event on the map



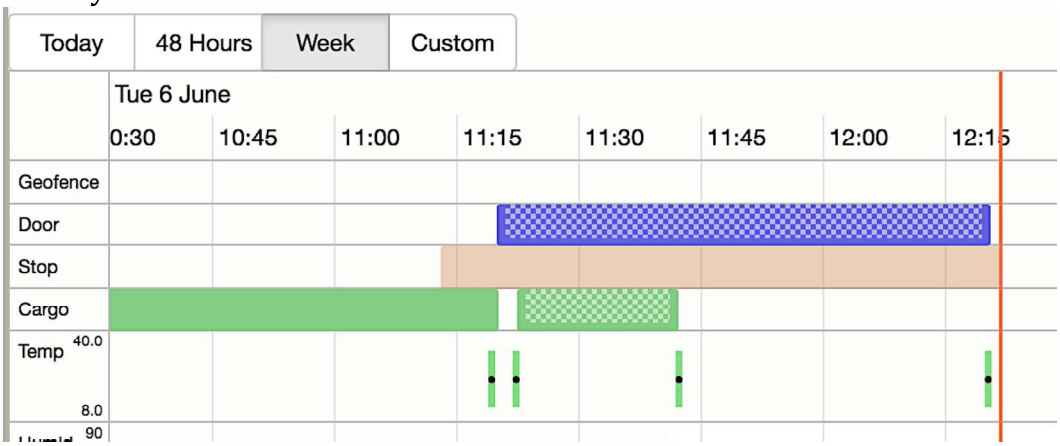
When you click on a current event on the map, you will see similar results.

4.5.3 How events are interpreted

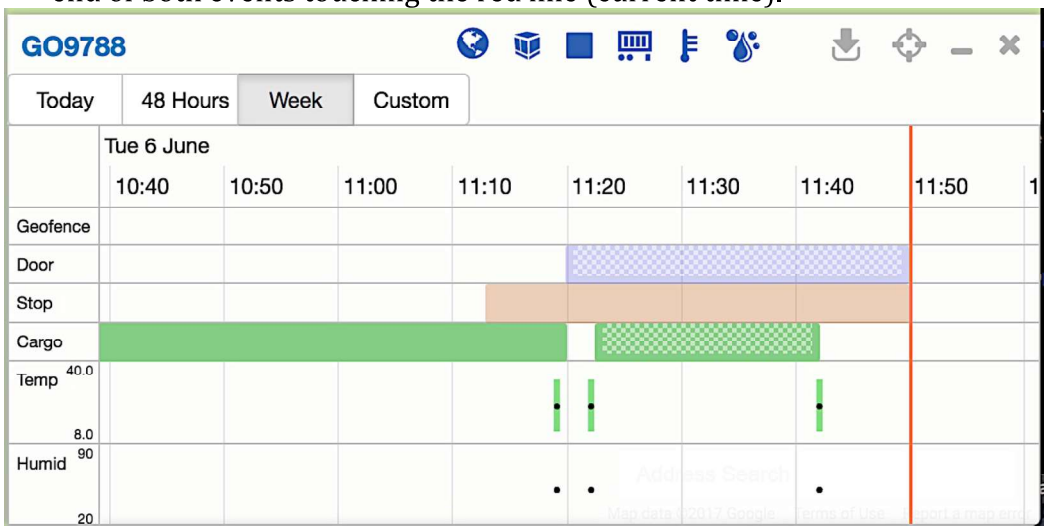
Two types of representation are used to describe the events in the Timeline view:

- Horizontal bars represent Geofence, Door, Stop, and Cargo events:
  - Length of the bar indicates the duration of the event.
  - A bar in a solid colour indicates that alert condition is either not detected or not configured. For example, in the image above, the second "Stop" bar means that a 15-minute extended stopover alert was configured and that the alert was triggered when the 15-minute threshold was crossed.
  - A bar with a checkerboard pattern indicates that an alert has been triggered. Length of the checkerboard indicates the duration of the alert state.

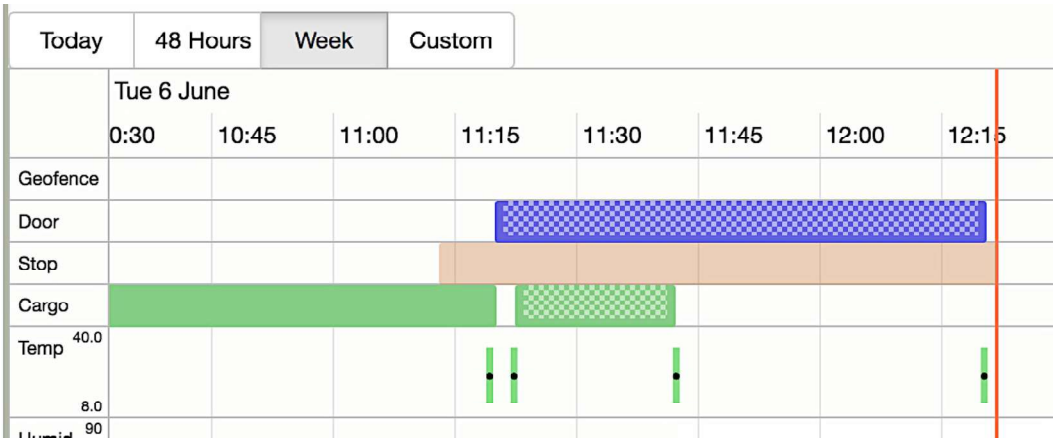
- The "Cargo" event is shown with a checkerboard pattern if cargo alerting is enabled when the cargo is unloaded. In the example below, the second "Cargo" bar indicates that cargo alerting was enabled and triggered, whereas the first bar indicates no alert condition. **Note**: "Cargo" events are only available to assets with Radar modules.



- Bar shows a lighter shade when the event is on going; note that in the example, both the "Door" event and the "Stop" event are on-going, the right end of both events touching the red line (current time).



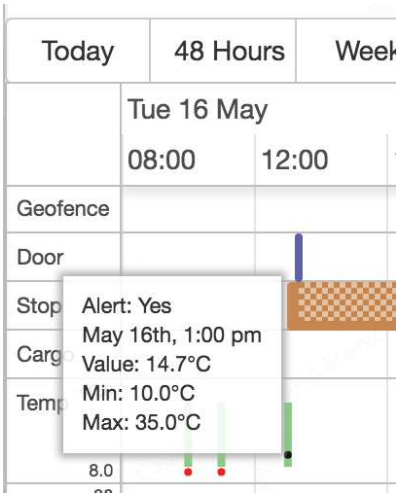
- Bar takes on a deeper shade when the event is completed. Note that in this example, the "Door" event is completed.



- You can hover over any bar to see event detail.

- Vertical bars and dots along the bars represent Temp (temperature) and Humid (humidity) information. Note that this information is only available for assets with Radar modules.
  - The green vertical bar represents the configured temperature or humidity alert range.
  - The red or black dot indicates the temperature or humidity value, as well as its position along (in range), or distance from (out of range) the configured range. In the examples below,
    - The Temp red dot below indicates that temperature fell to 8 degrees, out of the configured range of 10 - 35 degrees.

    - The Temp black dot indicates that temperature returned to configured range.



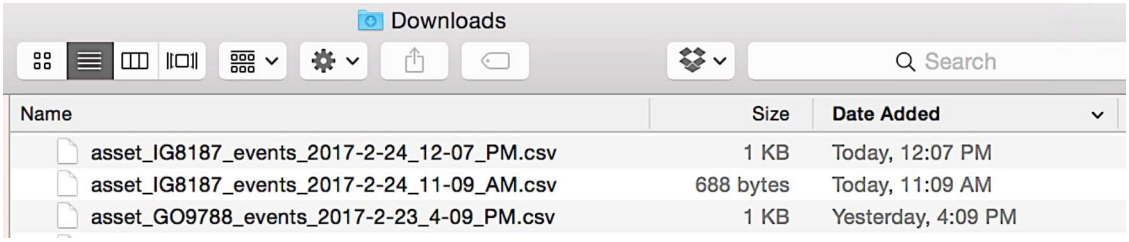
- You can hover over any red or black dot to see details, including the configured range and the reported value.

If you don't see the green vertical bar in the temperature or humidity area in your timeline, you don't have them configured for this asset. To check temperature or humidity event configuration, see "[redacted]".

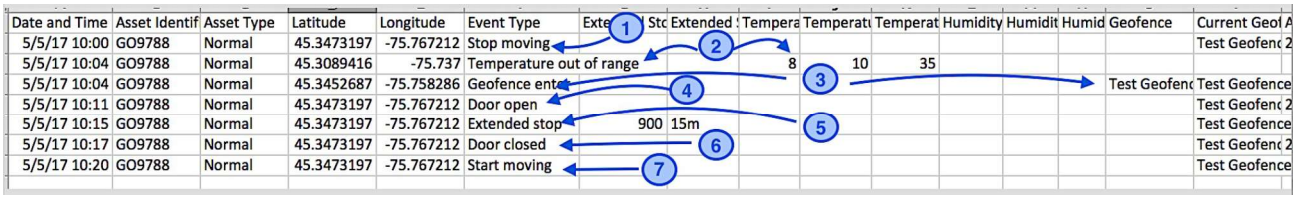
4.6 Download events in Timeline

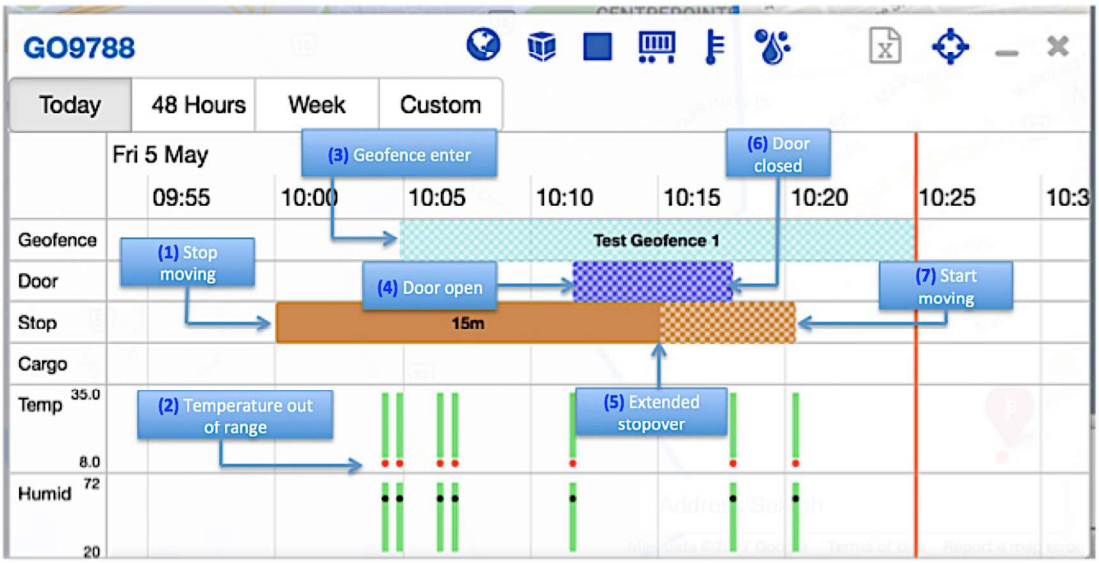
You can download the events in the selected timeline in a comma-separated values (.csv) file. This file presents the timeline of events in tabular format and can be opened in spreadsheet software such as Microsoft Excel.

1. Click  .
2. Go to your downloaded file location. The downloaded file is a .csv file with a file name of "asset_[id]" followed by the date and time of the download; for example, this Downloads folder contains a few event files for Assets IG8187 and GO9788:



Below is a downloaded CSV file and its corresponding Timeline view. The numbers in blue in both pictures indicate the corresponding sequence of events.





4.7 Events that require configuration

For the following events and alerts to be reported in either the downloaded CSV file or the Timeline view, they must be configured.

- Extended stopover
- Humidity out of range
- Humidity back in range
- Temperature out of range
- Temperature back in range

Note: For assets that are associated with Radar-L modules, only "extended stopover" (when configured) is available.

Note that in the example above, the "Extended Stopover" alert was configured as 15 minutes and the alert was raised when the threshold was crossed. In the example below, the "Extended Stopover" alert was not configured. As a result, the "Stop" event didn't trigger any alert (no checkerboard in the "Stop" event bar). Note also the configured temperature alert and unconfigured humidity alert.

Date and Time	Asset Identif	Asset Type	Latitude	Longitude	Event Type	Extend	Extended	Tempera	Temperat	Temperat	Humidity	Humidity	Humidity T	Ge
6/2/17 10:40	GO9788	Normal	45.3934475	-75.719061	Stop moving									
6/2/17 10:47	GO9788	Normal	45.3934475	-75.719061	Temperature out of range			40	10	35				
6/2/17 11:22	GO9788	Normal	45.4047778	-75.698462	Start moving									