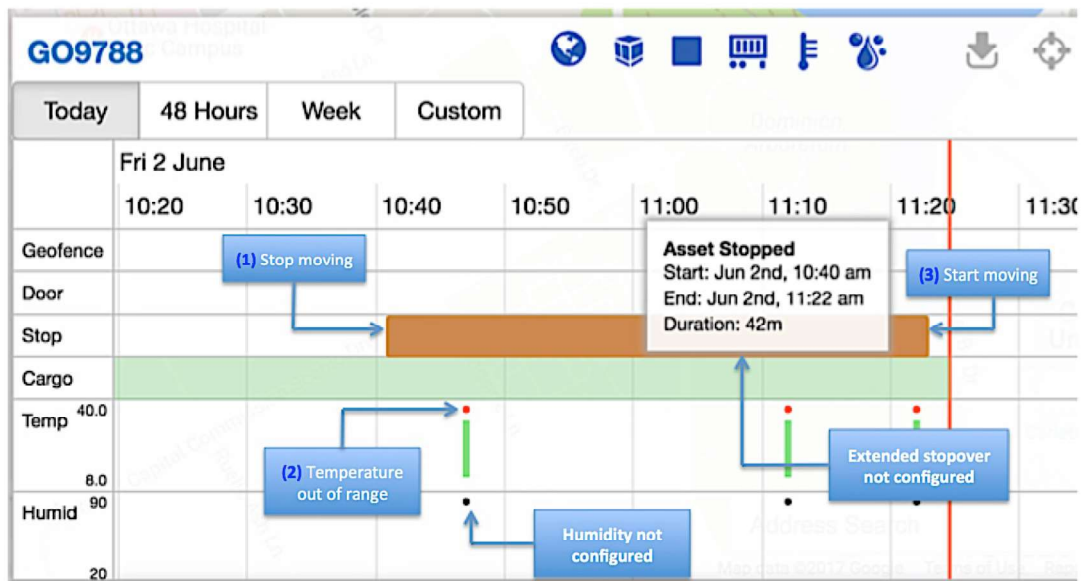
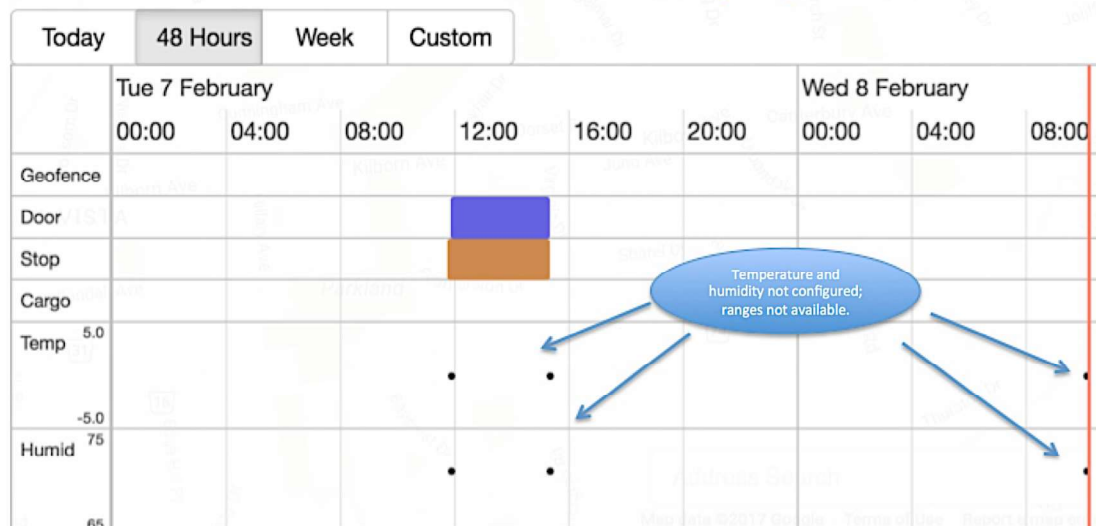




4.8 Temperature and humidity event configuration

Reporting of temperature and humidity out-of-range events requires configuration. If you see temperature or humidity indication similar to the example below, your temperature and humidity alerts are not configured.

Note: Temperature and humidity readings are not available to assets that are associated with Radar-L modules. This configuration doesn't apply to these assets.



Alert configuration is set for each asset type. Check your alert setting under the asset type of your asset. See “Retrieve asset type information.”

If your asset is in a geofence, its event timeline is also affected by the alert settings under that geofence. See “View geofence information.”

To set temperature or humidity alerts, contact your Radar Dashboard administrator. Alternatively, you may configure these alerts for an individual asset in the **Asset** view. Changes made in the Asset view override any other alert configuration for this asset.

1. In the **Asset** view, click the **Options** tab.
2. Check **Override alerting**.
3. Check the Temperature or Humidity box.
4. Move the dials to set the range.

Details Options

☒ Override alerting

This asset should override geofence and asset type alerts on:

☒ Door

☒ Cargo

☒ Low battery

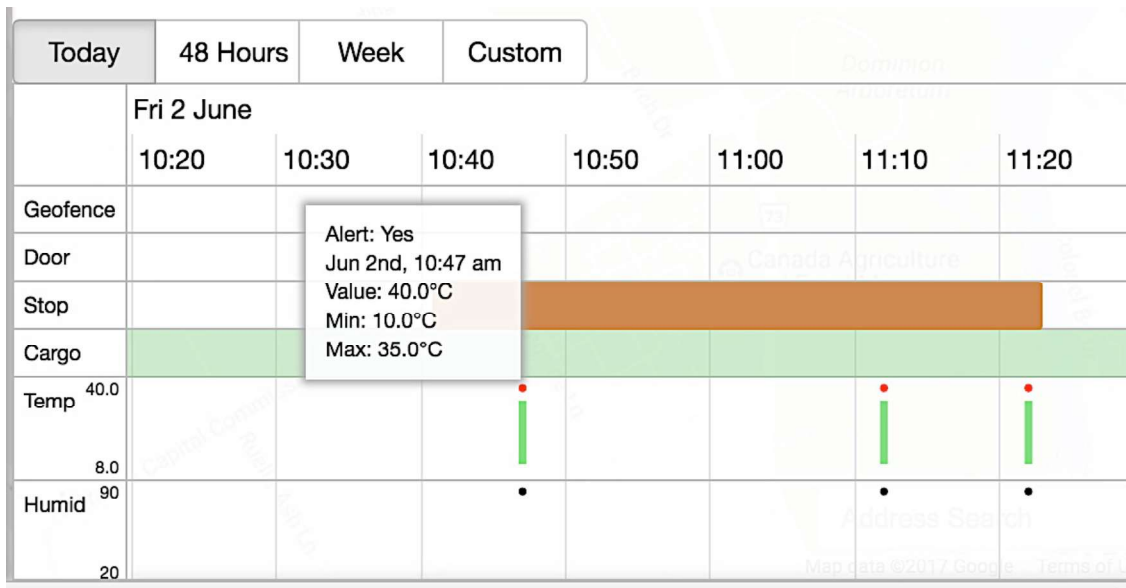
☐ Extended stop over

☒ Temperature outside range

10.0°C 35.0°C

☐ Humidity outside range

In the next example, temperature alert is enabled while humidity is not.



5 Access other asset related information

You can also obtain other asset tracking related information from the Dashboard application, including:

- Geofences
- Subscription to alerts
- Users on the application

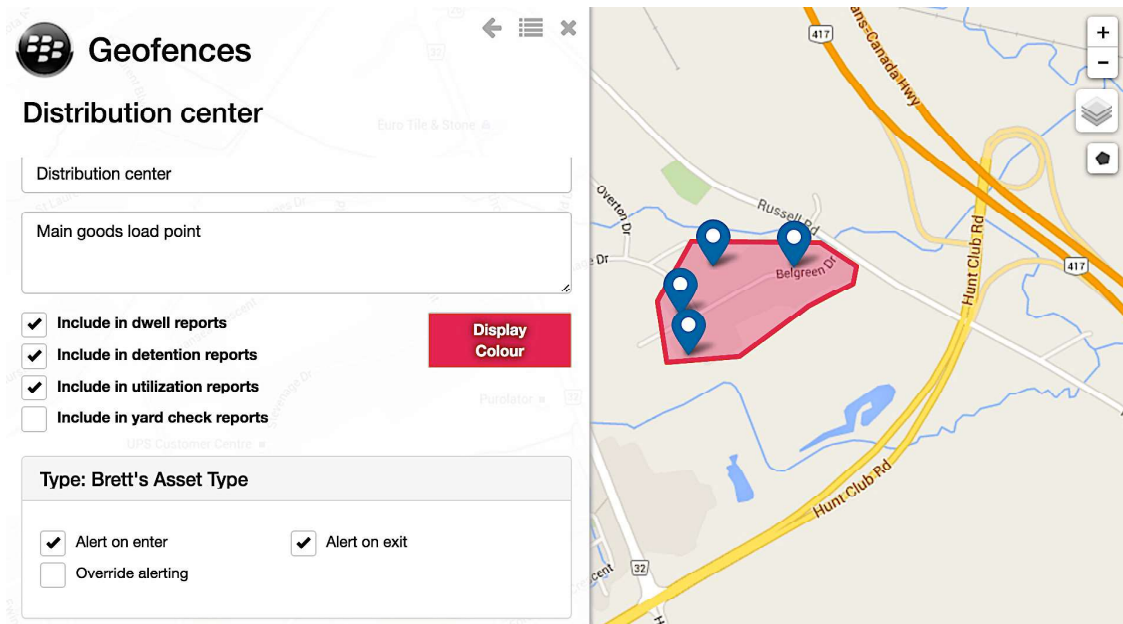
Task	Description
Retrieve geofence information	See what data is uploaded from a geofence and what assets are currently in the geofence
Search for a geofence	Search for a geofence
Subscribe for alert notification	Sign up to receive notification when predefined alert conditions are detected
Unsubscribe from alert notification	Unsubscribe yourself from alert notification
Retrieve the users list	Retrieve the list of users

5.1 View geofence information

A geofence is a virtual region created on a map to represent an actual geographic area. Geofences are used to define areas for which certain types of asset data need to be collected.

Note: Only an admin user can modify geofences and their settings.

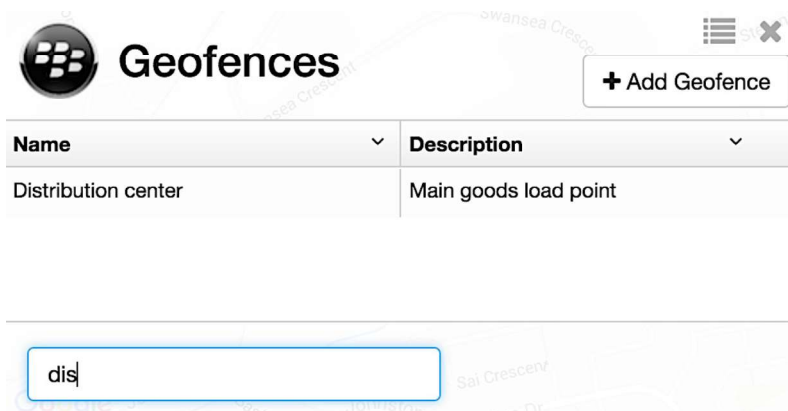
1. Open the **Geofences** view to see the list of geofences.
2. Click on any geofence. This opens the geofence view and locates the geofence on the map.
 - On the map, you can double click the geofence to zoom in.
 - In the geofence view, you can see
 - Which asset reports are included in this geofence (the "Include..." checkboxes)
 - Which alerts are set for each asset type



5.2 Search for a geofence

You can search for any geofence using the geofence name.

1. Open the **Geofences** view.
2. In the Geofence Search field, start typing the name of the geofence. A filtered list that matches the search field will appear in the view.
3. Click the geofence you are looking for. This opens the view of that geofence and locates the geofence on the map.



5.3 Subscribe to alert notification

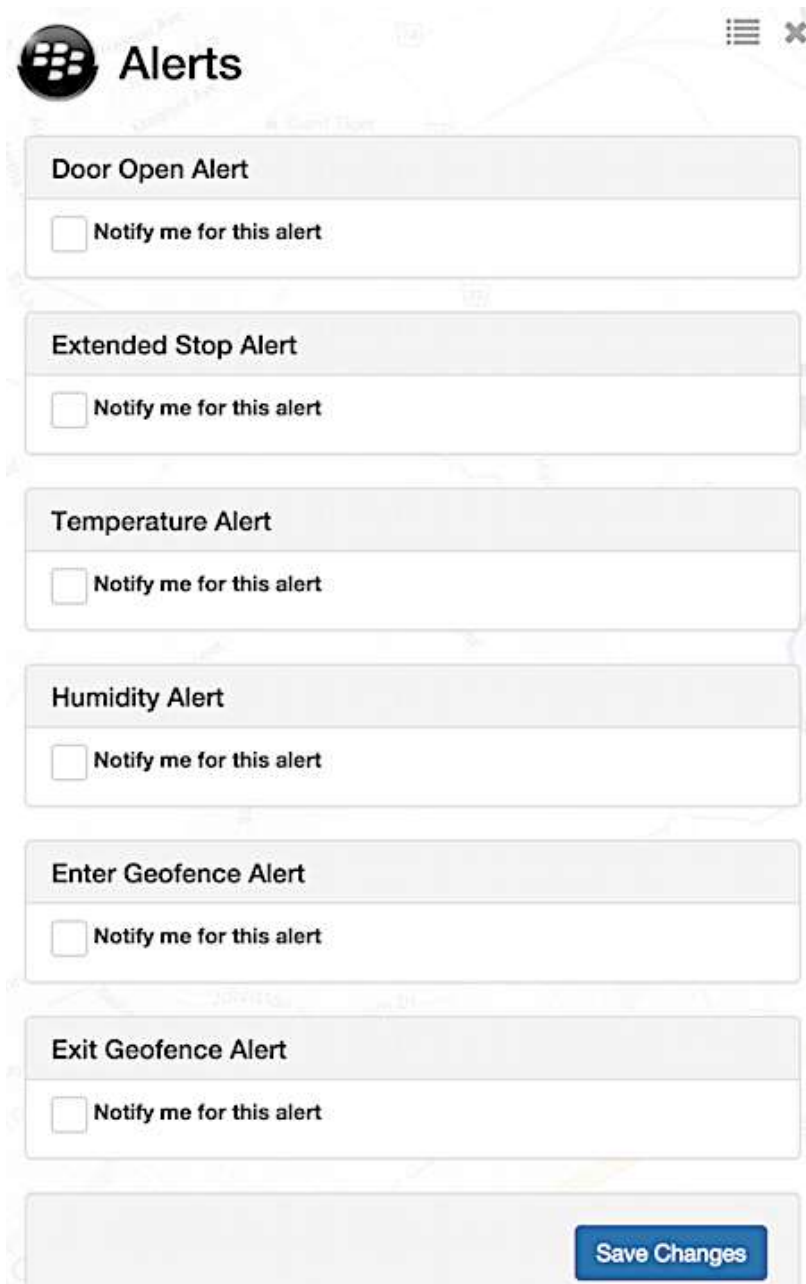
When an asset detects an alert condition, an alert message is sent to its registered users through email. You can subscribe to receive alert notifications.

The conditions that trigger alert notifications are set in each asset type, but can also be overridden in individual assets or geofences. For more information about alerts, see “Events and alerts” in the Admin Guide.

Alert	Description
Door Open	Asset door is open
Extended Stop	Asset stop time has exceeded the time set for extended stopover
Temperature	Temperature is out of the specified range
Humidity	Humidity is out of the specified range
Enter Geofence	Asset has entered the specified geofence
Exit Geofence	Asset has left the specified geofence
Cargo Unloaded	Cargo has been unloaded
Low Battery	Device battery is low

To receive alert notification:

1. Open the **Alerts** view.
2. Check the types of alerts you want to receive.
3. Click **Save Changes**.
4. If you don't receive alert emails, check your spam or junk email folder.



Alerts

☐ Door Open Alert
Notify me for this alert

☐ Extended Stop Alert
Notify me for this alert

☐ Temperature Alert
Notify me for this alert

☐ Humidity Alert
Notify me for this alert

☐ Enter Geofence Alert
Notify me for this alert

☐ Exit Geofence Alert
Notify me for this alert

Save Changes

5.4 Unsubscribe from alert notification

To remove yourself from alert notifications:

1. Open the **Alerts** view.
2. Uncheck the types of alert you want to unsubscribe yourself from.
3. Click **Save Changes**.

5.5 Retrieve users list

To see what users are allowed on the BlackBerry Radar Dashboard, click the **Users** option on the main menu.

The **Users** view lists all the users that have access to the application, both dispatchers and administrators. This is a quick way to find an admin user if you need assistance.

6 Generating asset data reports

You can use the **Reports** option on the BlackBerry Radar Dashboard main menu to create four types of reports about your asset data. Each report presents the requested asset data in graphs and tables.

- **Dwell Report:** Summarizes asset dwell time in the yards and over the time period that you select. Dwell time refers to time when an asset stays idle in a yard.
- **Detention Report:** Summarizes asset detention time in the geofences and over the time period that you select. Detention time refers to time when an asset is detained in a client geofence.
- **Yard Check:** Summarizes state of assets in selected yard(s) at a selected time.
- **Cargo Utilization Report:** Summarizes utilization status of your assets in selected geofences over a specified period.



6.1 General report features

Creating a report takes two clicks: Click **Reports** from the Dashboard main menu, and then click one of the new report buttons in the **Reports** view (the green **+** above).

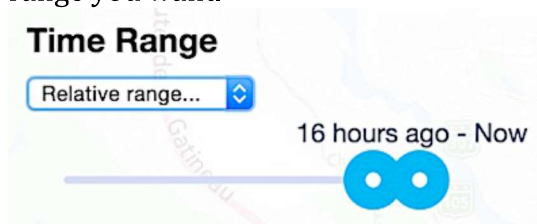
The Dashboard may have an enormous amount of asset data available. The following features help you generate and store just the data you need for each report:

- Set a time range
- Include only geofences you need
- Save a report
- Modify or delete a report

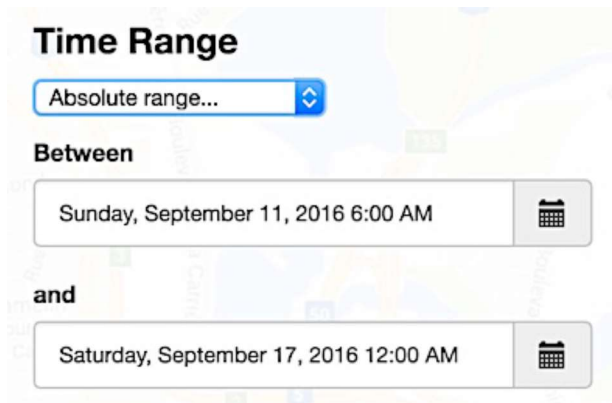
6.1.1 Set a time range

With the exception of yard check, which is based on a specific time, each report has a **Time Range** option at the upper left corner. The default time range is "Today"—your report will include asset data from midnight till the time the report is created. You can select a different range from the dropdown list, including:

- A range from "Today" to "Past year"
 - Click "Today" to display a dropdown list
 - Select any of the available ranges in the list.
 - Note that a saved report is regenerated each time you open it. Therefore, the time range you select from this list is relative to the time you view the report. For example, a time range of "Yesterday" means yesterday relative to the day you open the report, not a specific date. To save a report for a fixed time range, select "Absolute range..."
- Relative range: Select Relative range..., and click and drag the blue dials to a range you want.



- Absolute range: Select a time range using the calendars provided:
 - Under **Between**, click , then click to select the start date, hour, and time from the menu.
 - Under **and**, click , then click to select the end date, hour, and time.
 - Click the back and forward arrows to see more choices.



The exact time range of the report is shown under the report name.

6.1.2 Select geofences or asset types

A report may include an **Included Geofences** or **Included Asset Types** section. This section allows you to select interested geofences or asset types so as to filter the assets included in the report.

By default, **Automatic** is selected, which includes all asset types, or all geofences that have the “Include in ... reports” option of the geofence checked. To select specific asset types or geofences, use the **Custom** button.

- **Automatic:** Include all. For geofences, the selected geofences must have the corresponding “Include in ... report” option selected in the Geofence view.
- **Custom:**
 - Click **Custom**.
 - Click in the Select ... area below.
 - Select from the dropdown list.
 - Repeat the above steps to select more geofences or asset types.

Note: You can include up to 1,000 geofences in each report type.

6.1.3 Save the report

You may save the report for viewing later. Type in the report name field to overwrite the default name. You can always click the edit button  next to the report name to rename it later. Click **Save Changes**. Your report will be saved and available on the Reports view, under its report type and with a blue icon.



6.1.4 View a saved report

You can open any saved report in the **Reports** view by clicking on it. Click < **Go Back** to close the report and return to the **Reports** view.

6.1.5 Refresh a report

To refresh a report, click < **Go Back** to close it, and then reopen it in the **Reports** view.

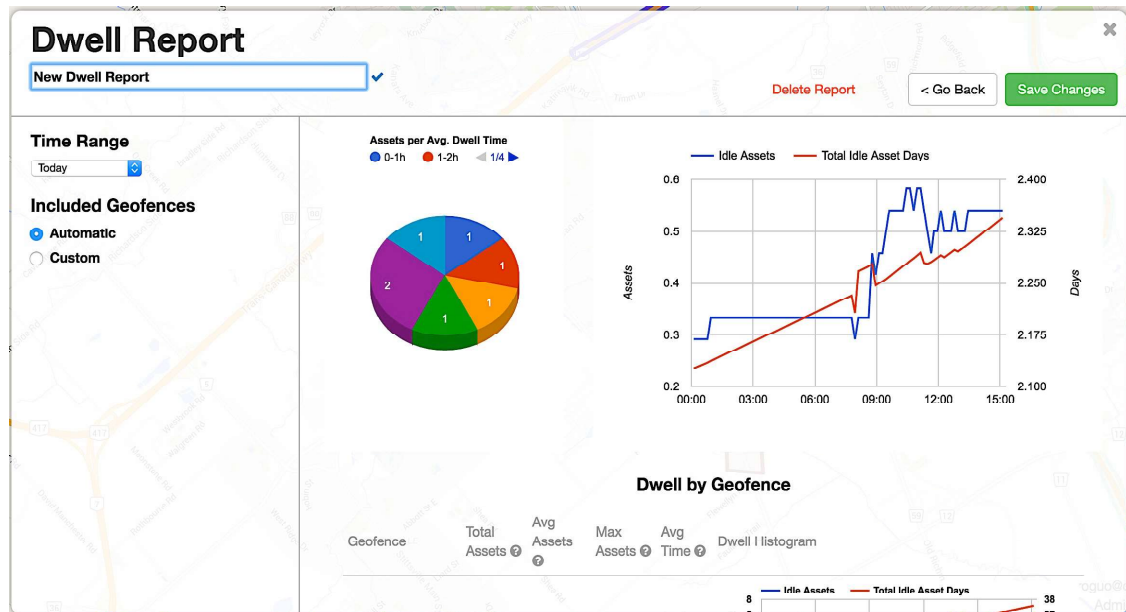
6.1.6 Modify or delete a report

You can modify or delete any saved report.

- In the **Reports** view, click a saved report to open it.
- Click **Edit Report**.
- To modify the report,
 - Click  next to the report name to rename the report.
 - Edit the time range or geofence selections.
 - Click **Save changes**.
 - Click < **Go Back** to return to the **Reports** view.
- To delete the report,
 - Click **Delete Report**.
 - Click **Yes** in the confirmation dialog box.

6.2 Dwell report

A dwell report gives you a summary of the dwell time of your assets in your selected time range and geofences.

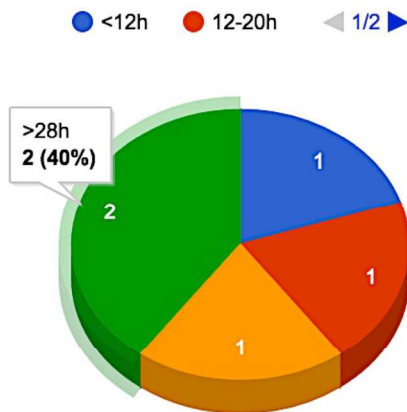


The dwell report is generated and updated as you change your selections of time range and geofences. It presents dwell time information in three ways:

- Pie chart: Shows ranges of assets' average dwell time and number of assets in each time range
- Histogram: Shows the average number of idle assets and their total idle time through the selected time range
- Dwell by Geofence table: Shows asset dwell time in each selected geofence through the selected time range

6.2.1 Pie chart: number of idle assets and their average dwell times

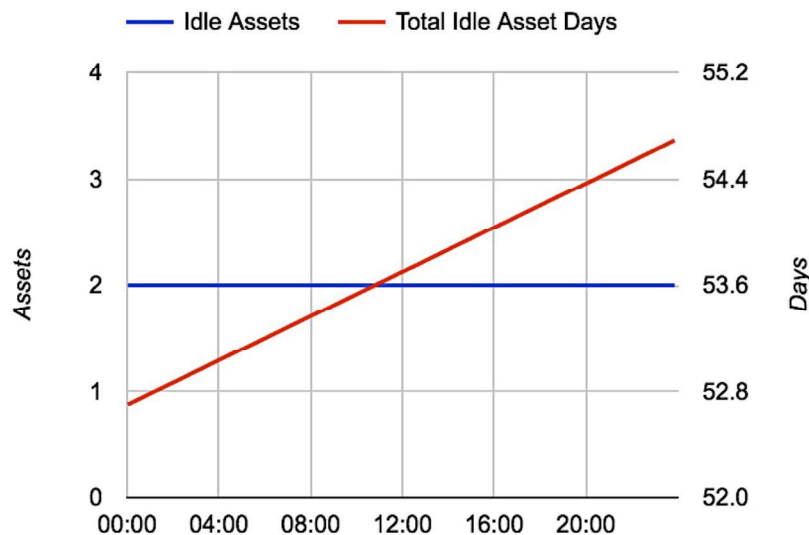
The pie chart groups the average dwell time of each asset across all selected geofences into ranges and presents each time range with its number of idle assets. Each colour represents a range of dwell time as indicated in the legend above the chart. Hover your cursor over a colour, and you'll see the percentage that number and colour represents.



6.2.2 Histogram: idle assets and dwell time over time

The histogram to the right of the pie chart depicts the changes in the number of idle assets and the assets' idle time through the selected time period. The histogram presents data from all selected geofences. In the histogram,

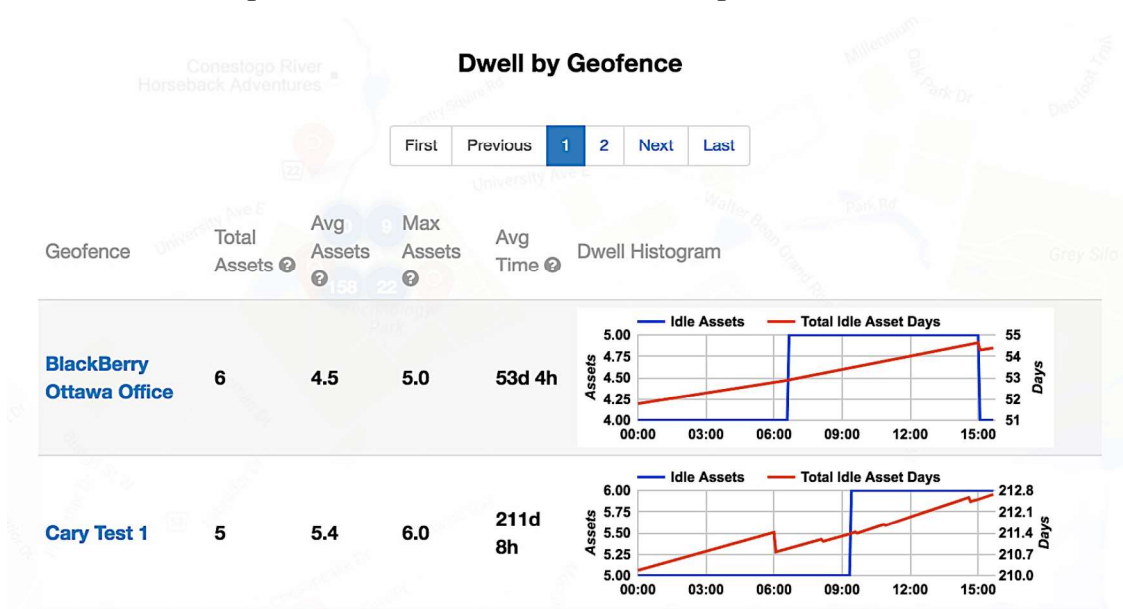
- X-axis: The progression of time
- Left y-axis: The number of idle assets
- Right y-axis: The range of measured dwell time
- Blue line: Number of idle assets in the selected geofences through the selected time period
- Red line: Total idle time recorded for all assets in the selected geofences through the selected time period



6.2.3 Dwell time by geofence

This section presents assets dwell time information by geofence. Data is shown in a table that includes:

- Geofence: Geofence name
- Total Assets: The total number of assets that have been idle in the geofence during the selected time period
- Avg Assets: The average number of assets that have been idle in the geofence during the selected time period
- Max Assets: The highest number of assets in the geofence that have been idle at any one time during the selected time range
- Avg Time: Total idle time of all assets in a geofence averaged over the selected time range
- Dwell Histogram: Histogram depicting the trend of asset idle time in the selected geofence over the selected time range



If you have a large number of geofences, they will be displayed on multiple pages with “Previous” and “Next” buttons that help you navigate between pages.

For each geofence, you can:

- Click the geofence name to see “Selected Geofence” information about the idle assets within that geofence
- Hover over the red or blue line in the histogram to see more information

6.2.4 Selected geofence

This section shows the trend of idle assets as well as information about each idle asset in a selected geofence, over the selected time period, including:

- A histogram that shows the trend of the numbers of idle assets by asset type

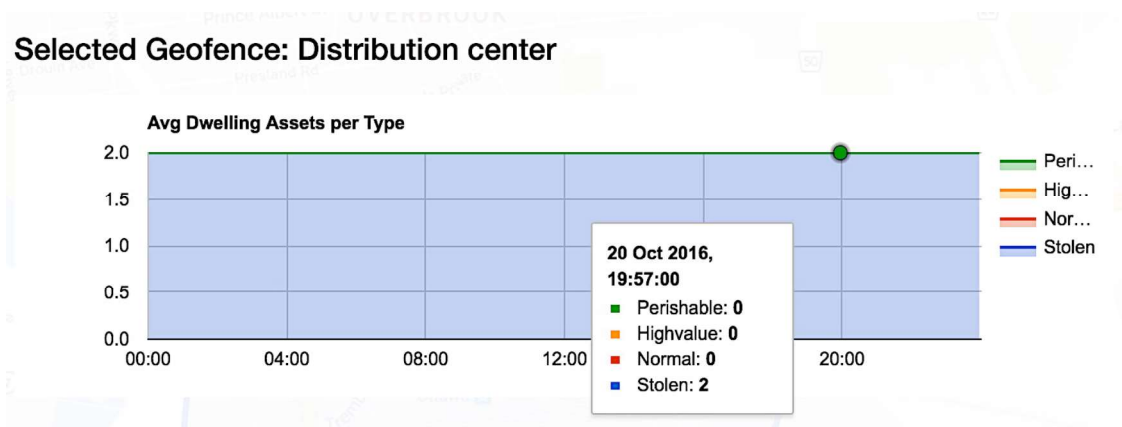
- A table that lists details about each idle asset

6.2.4.1 Histogram: Avg Dwelling Assets per Type

This histogram is a stacked area chart, describing the trend in the numbers of dwelling assets in each asset type over the selected time period.

In the sample screen image below,

- The x-axis indicates the progress of time.
- The y-axis indicates the average number of idle assets per asset type through the selected time period.
- Each colour represents a different asset type, as indicated in the legend.
- Hovering over the coloured lines will bring up detailed information about each asset type at the selected time.



6.2.4.2 Assets in Geofence

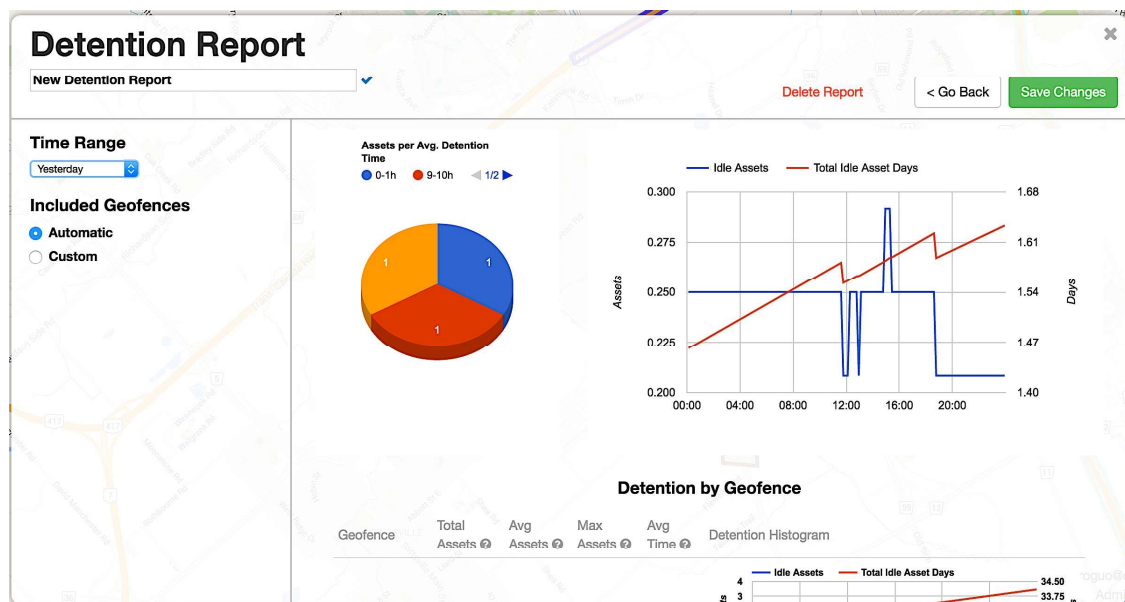
The assets table includes details about each idle asset in the geofence, including:

- Asset: Asset identifier
- Asset Type: Asset type
- Last Movement: The last time the asset moved
- Avg. Dwell Time: The asset's dwell time averaged over the number of times it has been idle for in the geofence, for the selected time period
- Max Dwell Time: The longest time the asset has been idle for in the geofence, for the selected time period
- Cumulative Dwell Time: The sum of all dwell times of the asset in the geofence, for the selected time period

Assets in Rail yard					
Asset	Asset Type	Last Movement	Avg. Dwell Time	Max Dwell Time	Cumulative Dwell Time
IG8187	Normal	04d 23h 10m ago	04d 23h 11m	04d 23h 11m	04d 23h 11m

6.3 Detention report

The detention report looks very similar to the dwell report except for one aspect: it reflects the detention time of your assets in client geofences.



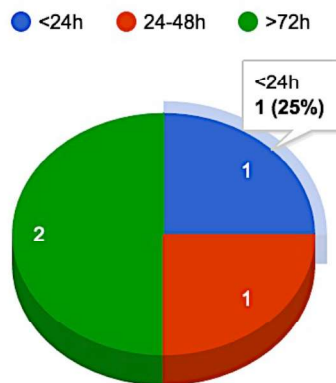
You can select a time range and geofences to specify the scope of data you want to include. See “Set a time range” and “Select geofences” for more information.

The detention report is generated and updated as you change your selections of time range and geofences. It presents detention time data in three ways:

- Pie chart: Shows ranges of assets’ average detention times and number of assets in each time range
- Histogram: Shows number of idle assets and their detention time through the selected time range
- Detention by Geofence table: Shows asset detention time in each selected geofence through the selected time range

6.3.1 Pie chart: number of detained assets and average detention time

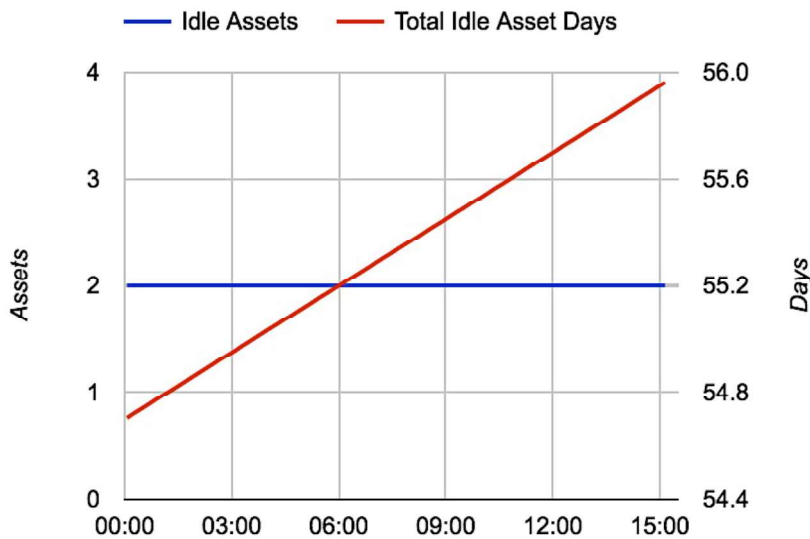
The pie chart organizes the average detention time of each asset across all selected geofences into ranges and presents each time range with its number of detained assets. Each colour represents a range of detention time as indicated in the legend above the chart. Hover your cursor over a colour, and you'll see the percentage that number and colour represents.



6.3.2 Histogram: idle assets and detention time over time

The detention histogram depicts the changes in the number of idle assets and the assets' idle hours during the selected time range. This diagram reflects data from all selected geofences. In the diagram,

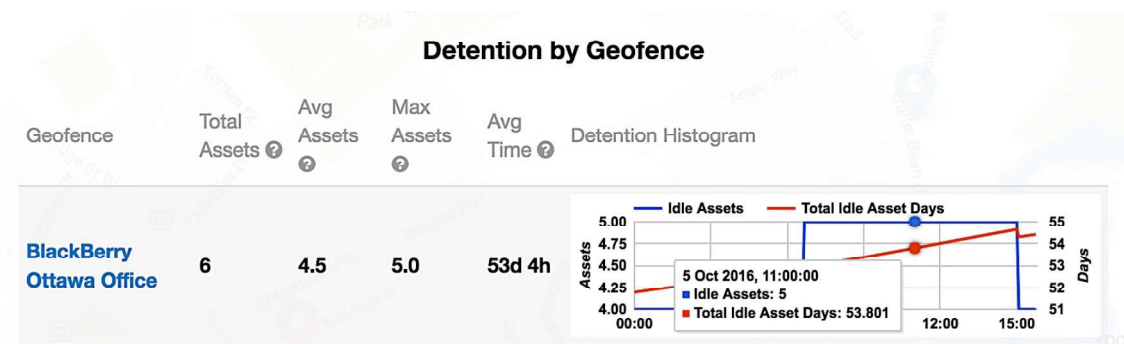
- X-axis: The progression of time
- Left y-axis: The number of detained assets
- Right y-axis: The range of measured detention time
- Blue line: Average number of detained assets in the selected geofences through the selected time period
- Red line: Total detention time recorded for all assets in the selected geofences through the selected time period



6.3.3 Detention time by geofence

This section presents assets detention time information by geofence. Data is shown in a table that includes:

- Geofence: Geofence name
- Total Assets: The total number of assets that have been idle in the geofence during the selected time period
- Avg Assets: The average number of assets that have been idle in the geofence during the selected time period
- Max Assets: The highest number of assets in the geofence that have been idle at any one time during the selected time range
- Avg Time: Total idle time of all assets in a geofence averaged over the selected time range
- Detention Histogram: Histogram depicting the trend of asset idle time in the selected geofence over the selected time range



If you have a large number of geofences, use the Previous and Next buttons to navigate between pages.

For each geofence, you can:

- Click the geofence name to get “Selected Geofence” information about the detained assets within that geofence
- Hover over the red and blue lines in the histogram to see details

6.3.4 Selected geofence

This section shows the trend of idle assets as well as information about each idle asset in a selected geofence, over the selected time period, including:

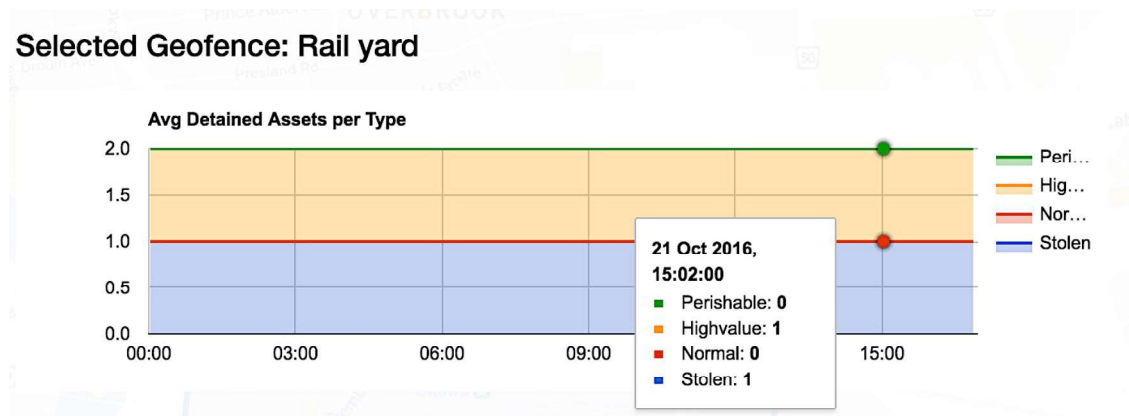
- A histogram that shows the trend of the numbers of idle assets by asset type
- A table that lists details about each idle asset

6.3.4.1 Histogram: Avg Detained Assets per Type

This histogram is a stacked area chart, describing the trend in the numbers of detained assets in each asset type over the selected time period.

In the sample screen image below,

- The x-axis indicates the progress of time.
- The y-axis indicates the average number of idle assets per asset type through the selected time period.
- Each colour represents a different asset type, as indicated in the legend.
- Hovering over the coloured lines will bring up detailed information about each asset type at the selected time.



6.3.4.2 Assets in Geofence

The assets table includes details about each detained asset in the geofence, including:

- Asset: Asset identifier
- Asset Type: Asset type