raven

Feature Spotlight

Geofences

What it is

A geofence is a point or area on a map that can trigger events when a vehicle arrives or leaves a set location. Geofences can be created as small as 100 meters wide or as large as 49 kilometers wide.

Geofence enter and exit alerts in the details panel.

How it works

The Raven Connected platform offers two configuration options: point and polygonal-based geofences. Point-based geofences provide the ability to deploy geofences around general areas quickly. Polygonal geofences enable free-form drawn shapes where geofences require enhanced specificity. Both types will allow users to receive live notifications and create and manage reports based on the interaction of your vehicles. Identify job sites, city limits, or other areas of importance on the map to generate live alerts and detailed reports. Know when vehicles arrive/leave the location and how long they were there.

Point-Based Geofence

Polygonal Geofence

From the 'Geofences' pop-out list on the left hand of the screen, users can identify the type and size of each geofence. Circles denote point-based geofences, while triangles represent polygons. Geofence sizes are categorized as follows, with corresponding circle or triangle sizes:

Small: Smaller than 0.78 km²
Medium: Bigger than or equal to 0.78 km²
Large: Bigger than 3.14 km²

Pop out list with different types and sized Geofences.

How to use it

Point:

1. From the web app select the 'Geofences' menu item from the left-hand side.
2. Select 'Add Geofence'.
3. Drag the map or search the location where you would like to place the geofence.
4. To change the size of the geofence click and drag the arrows.
5. Adjust geofence settings under the details panel including name, color, expiration, and notifications then click 'Save Location'.

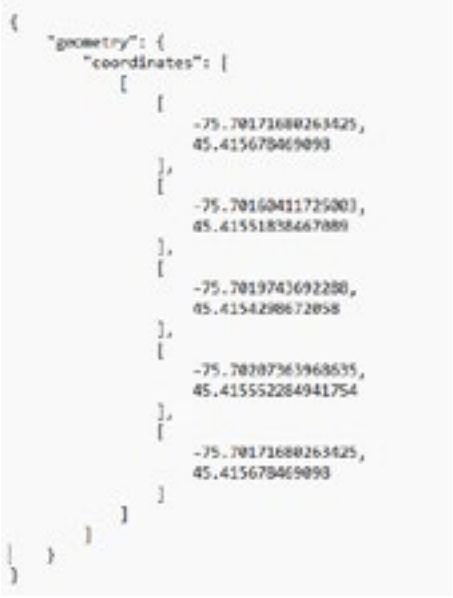
How to use it continued

Polygon:

1. From the web app select the 'Geofence' menu item from the left-hand side.
2. Select 'Add Geofence'.
3. Switch the type of geofence by selecting 'Polygon' you can either choose to upload your own by selecting 'Import Polygon'.

To import a polygon:

1. Select the 'Import Polygon' button.
2. Select a file from your local device. The file must include a geometry field with a coordinates array containing the polygon's coordinates. A variety of file types are accepted so long as the structure is maintained.



Sample file structure to import polygonal geofences.

To draw your own:

1. Drag the map or search the location where you would like to place the Geofence.
2. Click anywhere on the map to begin drawing your geofence. Each click will add a new point to your geofence, if you need to restart the shape click the garbage can icon to the right of your screen. Once satisfied with your shape select enter/return on your keyboard.
3. To adjust or delete a vertex, select one of the polygon's points. Click and drag to modify its position, or click the trash can icon to remove the vertex.
4. Adjust geofence settings under the details panel including name, color, expiration, and notifications then click 'Save Location'.

To edit a geofence:

1. Click on the geofence from the list.
2. Select the 'Edit Location' button.
3. Adjust any settings following the same instructions as above.
4. Select 'Save Location'.

Notes:

- Polygonal geofence points must not intersect. If intersections occur, an error will be generated, preventing you from saving the geofence.
- Recommended area size should be a minimum of 0.0314 km², areas smaller could result in erroneous notification if cellular signal strength is weak.
- Geofence areas cannot be created if they are smaller than 0.00282 km².

Set up geofences with a step-by-step video.