

GETTING STARTED WITH YOUR OYSTER GPS UNIT (CELLULAR VERSION)

1. INTRODUCTION



The Oyster is a compact, rugged, IP67 rated GPS tracking device that has been designed for tracking containers, trailers, skip bins, kayaks, jet skis, boats, generators, vehicles, and other assets where super-long battery life is required without sacrificing the frequency of updates and performance. There is very little initial cost and no barrier to frequent re-installs on various assets. In exchange for these benefits, the Oyster introduces a trade-off between battery life and tracking detail. Excellent power management sets the Oyster apart from the competition.

2. CONTACT INFORMATION

For the latest version of this document and other product information please visit our website at www.westcoastgps.com/support

3. IN THE BOX

The compact box contains the Oyster and 6 housing screws in a small packet inside the housing.



4. SIM, BATTERY, AND SEALING

For your convenience, the SIM card has already been inserted, configured, and tested.

NOTE: The Oyster will only work with the installed SIM card. *** Batteries Are Not Provided

*** Before installing batteries download the telematics guru app onto your smart phone and/or log in to the Westcoastgps.com website using the provided login credentials.

Inserting the Batteries

The Oyster uses 3 x 1.5V AA batteries. Although Alkaline batteries can be used we recommend the Energizer Ultimate Lithium AA battery as shown in the picture below.

Lithium batteries work better over a wider temperature range and have twice the capacity.

Do not use rechargeable batteries.



The Oyster does not have reverse voltage protection. Take care to insert the batteries with the correct polarity. The springs are the negative terminals.

Once the batteries are inserted, the LED should flash continuously. If it does not, it means the unit has not yet reset. In this case, remove the batteries for a minute or two to allow any residual charge to drain, and then reinsert them. Failure to reset the unit will prevent automatic APN detection, and proper resetting of the battery life statistics. Go to your Telematics Guru App or login to the Westcoastgps.com site to ensure your device is showing on the map.

5. CLOSING AND OPENING THE HOUSING

Once online, all that remains is to seal the housing. Seal the device carefully to achieve the IP67 rating. To seal the housing:

1. Ensure that the clear silicon seal is in good condition, is lying flat, and is not fouled by any plastic debris or other material.
2. Close the housing, and gently squeeze it shut. Foam on the lid will compress against the batteries, holding them firmly in place.
3. Tighten the 6 screws to a uniform tightness. On the first assembly, the screws may be quite stiff. An electric screwdriver with a torque limiting clutch is recommended. The torque setting should be 0.7 Nm.
4. For reference: the screws used are a thermoplastic screw: 3.5mm x 12mm (BN82428). If you wish to replace the batteries and open the housing, be sure to check that the silicon seal is in good condition before closing the housing again.

Seal Maintenance

When replacing the batteries, please inspect the condition of the silicon seal. Seals should be replaced every 3 years to ensure reliable performance. Contact WestcoastGPS to obtain extra seals.

6. DEVICE INSTALLATION

The Oyster can be mounted on the asset to be tracked using screws, bolts, cable ties, or industrial adhesives. When choosing a mounting point, you have two competing goals:

1. To minimise the chances of the device being accidentally crushed or dislodged.
2. To maximise the GPS and network signal since the Oyster is a battery powered device, GPS reception is important to its performance.

The biggest user of the battery is the GPS and the power needed to operate it during each GPS position fix. So ideally mount the device where it has a view of the sky. Choose a location that will not result in elevated temperatures. For instance, mounting the Oyster in direct sunlight on the dash of an unventilated cabin may overheat the batteries, leading to abnormally short service life.

After mounting your Oyster test to see if it is quickly acquiring a fix. If not consider mounting it in a new location. The Oyster has proven to work well inside vehicle bumpers, in the trunk of a motor vehicle, in the engine compartment of a Jet Ski, under a vehicle dashboard, in kayak hatches, etc.

7. TRACKING YOUR ASSET

There are two methods for tracking your assets, using the Telematics Guru app on your Android or Apple devices and/or by logging into the westcoastgps.com website with the credentials provided to you by Westcoast GPS. The App provides basic tracking information including the ability to set up a one-time only "Movement Alert" and to put the asset into "Recovery Mode" should the asset go missing or is stolen. The website provides more robust tracking features including geofencing, alerts, and reports.

8. DEFAULT SETTINGS

By default, the Oyster is setup for trip tracking. The following default settings apply:

1. Out of Trip: a 24-hour heartbeat meaning a GPS point is obtained and uploaded every 24 hours.
2. In Trip:
 - a. Start trip threshold of 250m
 - b. Upload on trip start.
 - c. GPS points every 2 minutes
 - d. Upload every 30 minutes.
 - e. End a trip after 5 minutes of no movement.
 - f. Upload on trip end.

These settings and many more are configurable. Email Westcoastgps.com to discuss changes to settings. Tracking more often than the above mention defaults could result in shorter battery life and higher monthly subscription costs.

9. RECOVERY MODE

Should your asset be removed without your authorization you can immediately start tracking your asset in regular intervals by activating "Recovery Mode" in the Telematic guru app or by logging in to Westcoastgps.com.

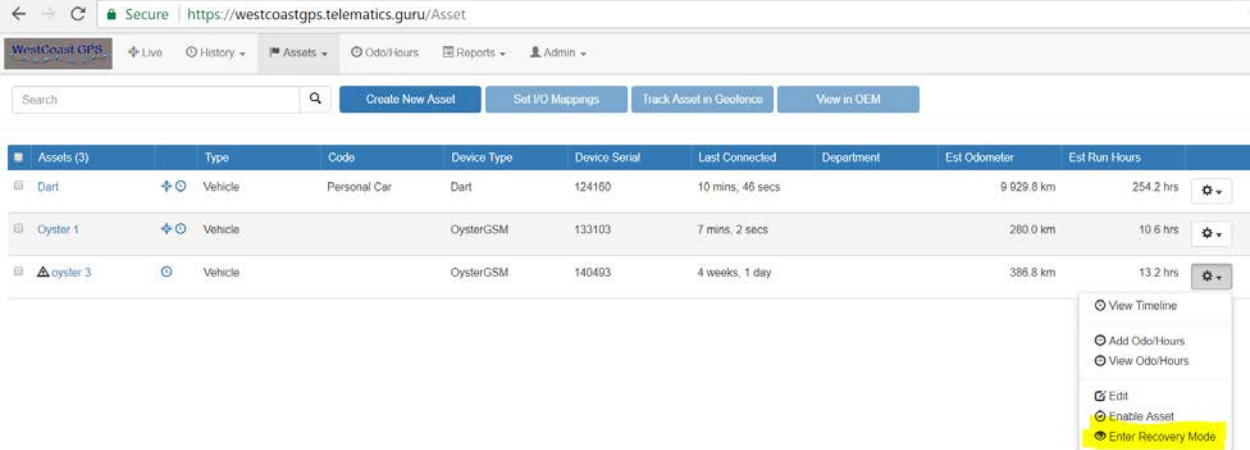
When using the app **Recovery Mode** is a one-touch feature designed to set the device into "live tracking" where it reports every 30-45 seconds. Logging into the website involves a few more steps to activate this feature. Two **important** things to note:

- a) your data usage will increase dramatically until the Recovery mode is deactivated

- b) battery life on the Remora will reduce quickly until the batteries are flat (up to 7 days depending where they are in the usage cycle), or until the Recovery Mode is deactivated.

How to activate on the www.westcoastgps.com website:

First login then select **Assets**, then **Manage Assets**, select your asset, then go to **Settings** (the cog on the far right). Then select **Enter Recovery Mode**. See below:

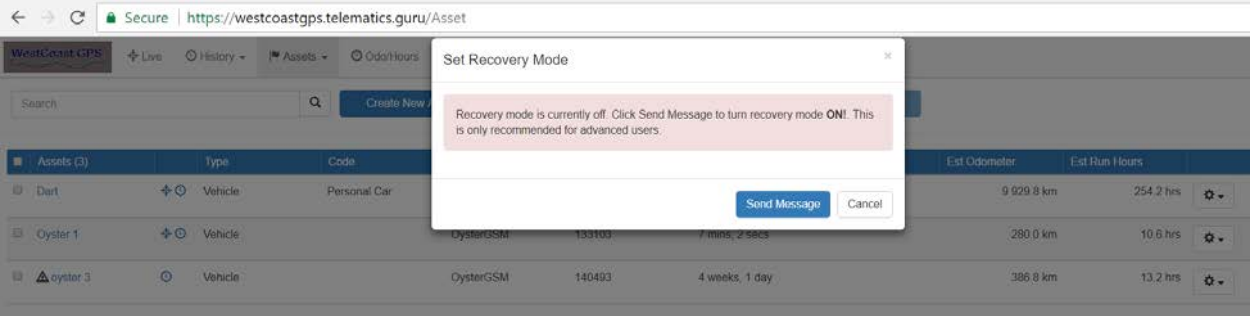


The screenshot shows the WestcoastGPS web interface. The browser address bar displays <https://westcoastgps.telematics.guru/Asset>. The navigation menu includes 'Assets', 'Odo/Hours', 'Reports', and 'Admin'. Below the navigation is a search bar and buttons for 'Create New Asset', 'Set I/O Mappings', 'Track Asset in Geofence', and 'View in OEM'. The main content area displays a table of assets:

Assets (3)	Type	Code	Device Type	Device Serial	Last Connected	Department	Est Odometer	Est Run Hours	
Dart	Vehicle	Personal Car	Dart	124160	10 mins, 46 secs		9 929.8 km	254.2 hrs	⚙️
Oyster 1	Vehicle		OysterGSM	133103	7 mins, 2 secs		280.0 km	10.6 hrs	⚙️
oyster 3	Vehicle		OysterGSM	140493	4 weeks, 1 day		386.8 km	13.2 hrs	⚙️

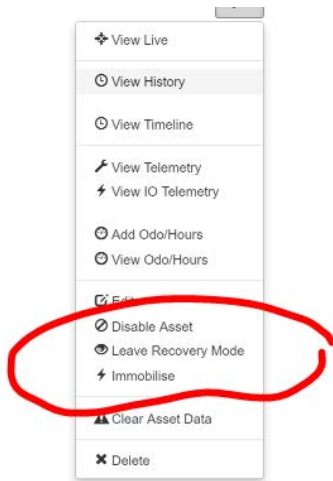
A context menu is open for the 'oyster 3' asset, showing options: View Timeline, Add Odo/Hours, View Odo/Hours, Edit, Enable Asset, and Enter Recovery Mode (highlighted in yellow).

You will be asked to verify to be certain:

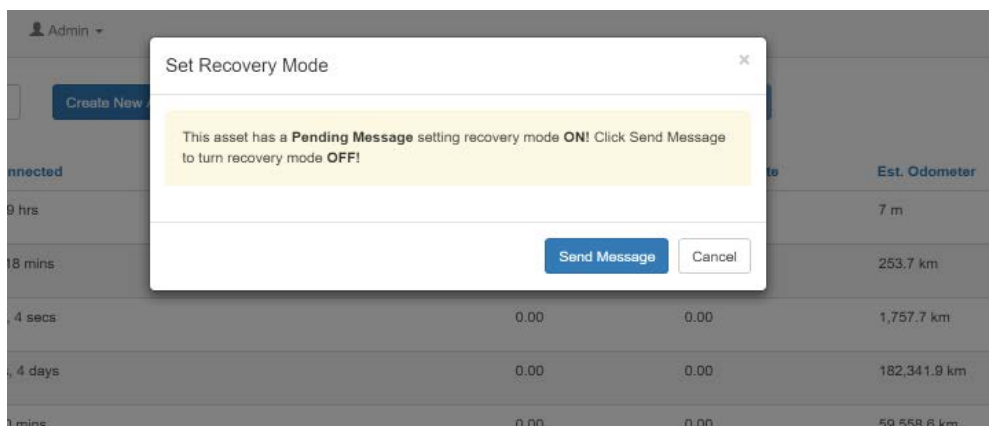


The screenshot shows the WestcoastGPS web interface with a 'Set Recovery Mode' dialog box open. The dialog box contains the following text: 'Recovery mode is currently off. Click Send Message to turn recovery mode ON! This is only recommended for advanced users.' Below the text are two buttons: 'Send Message' and 'Cancel'.

In the Asset column, you will now see it is active and offers **Leave Recovery Mode** if you would like to deactivate:

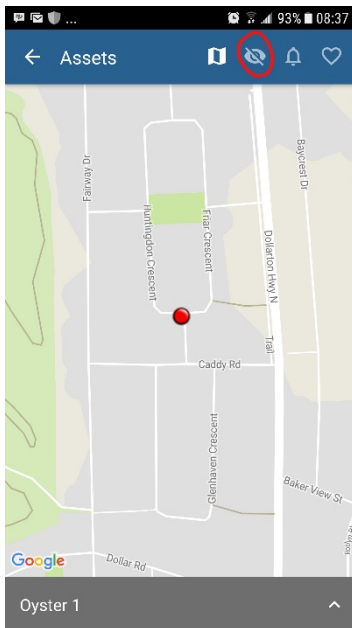


If the request has been accepted or is pending, you will see this message:

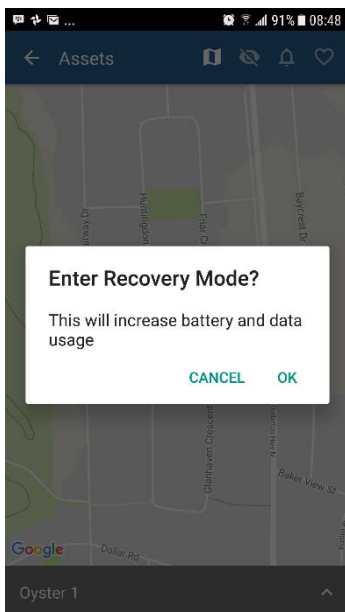


Activating **Recovery Mode** on the App

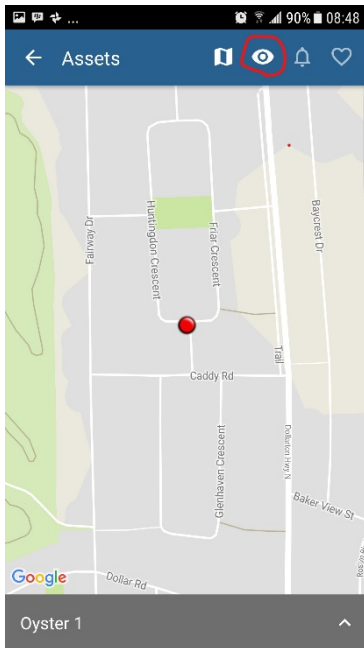
Select the eye on the top right:



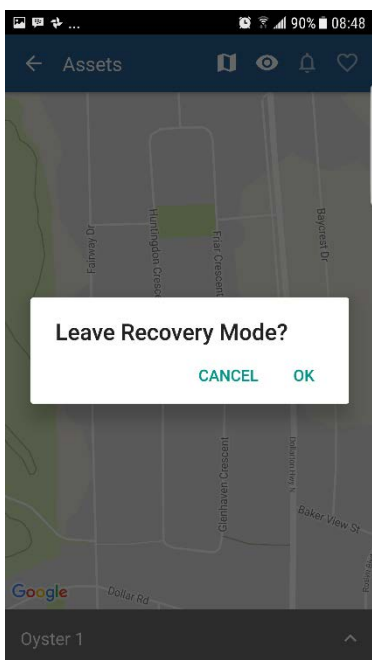
When the window below open click OK



And it shows as active with the line no longer through the "eye" on the top right:



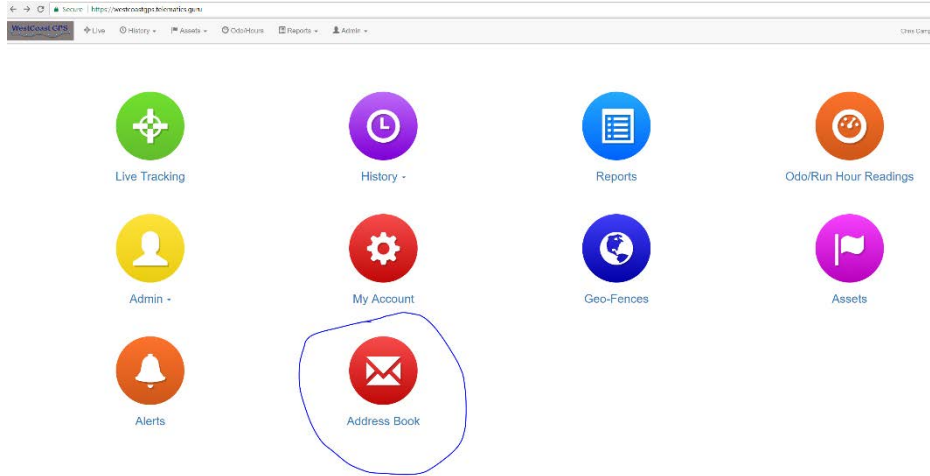
If you want to reverse it, and **Leave Recovery Mode**, just click on the eye again:



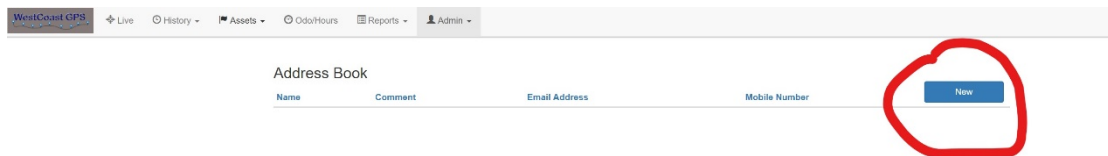
Click on OK

10. ADDRESS BOOK

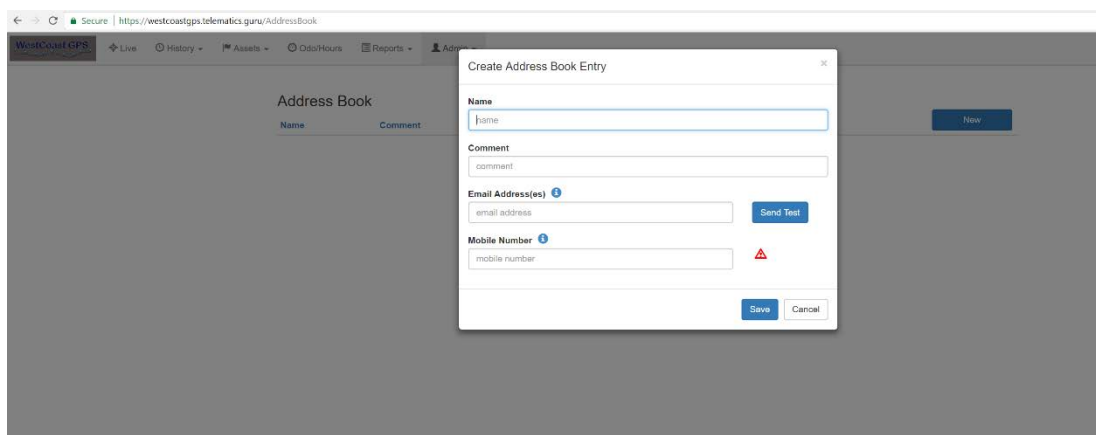
Alerts are an important component of managing your assets and to take advantage of **Alerts** you first have to do a few things, the most important being to set up your address book. Click on the “Address Button” which is circled in blue below:



Then click on the “New” button



Enter the email addresses you anticipate you will use for ALERTS. You can use whichever email addresses you want for each ALERT that you set up and you choose which emails to use when you create ALERTS.



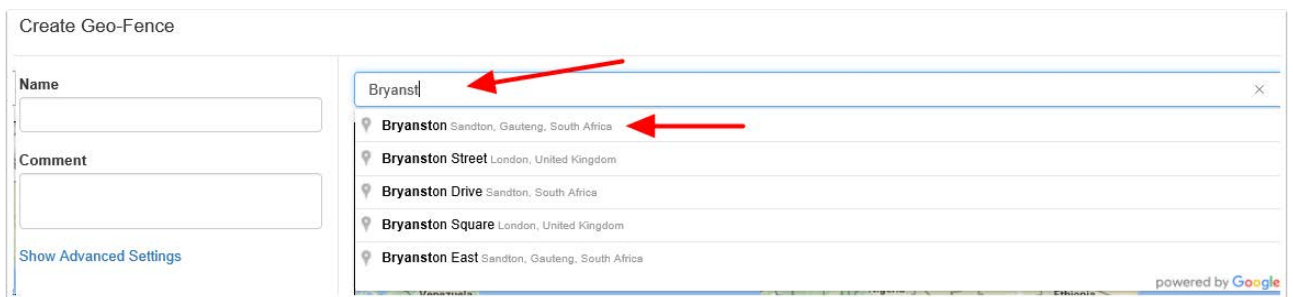
Once you have entered your first email address click “Save” and repeat the process until you have all of the email addresses entered. You can go back at any time and add or delete email addresses.

11. GEOFENCES

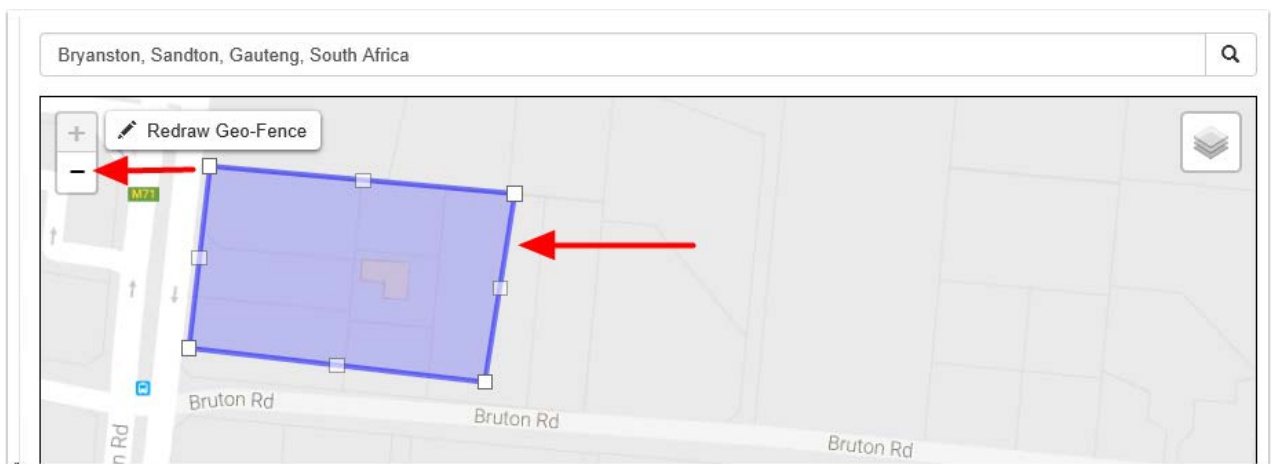
Setting up a Geo-fence is easy. From the main menu (which you can reach by clicking the WestCoast GPS logo on the top left corner) select Geo-fences as shown below:



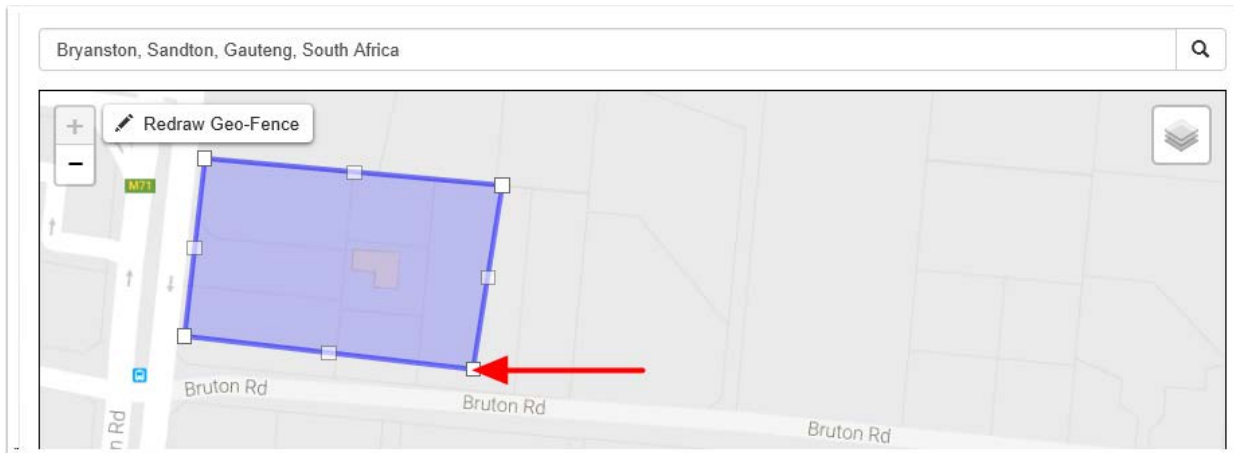
Begin typing an address and matching options will appear. Select the correct one as shown:



You can now adjust the zoom level using the plus(+) and (-) functions on the bottom right corner of the map, and once you see the area that you wish to create a zone for, use your cursor to click points outlining the shape, ensuring that your last point meets the first point you created, as show below:



Once you have clicked on your starting point the geo-fence shape will appear and you can adjust the shape by dragging any of the nodes shown by arrows below:



Remember that at least three points must be defined to create an area. Be sure to click the starting point to close the shape. A common stumbling block is not completing or closing the area. The Geo Fence will not save until it is closed.

Lastly, name your geo-fence and then click SAVE. The name given to your geo-fence will now appear in all of your trip history and reports.

For advanced options click on Show advanced options.

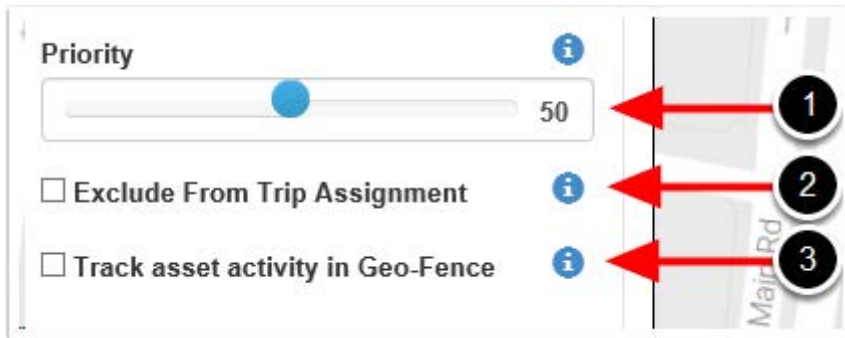
Name
Test

Comment
Bryanston, Sandton, 2191, South Africa

Show Advanced Settings

B

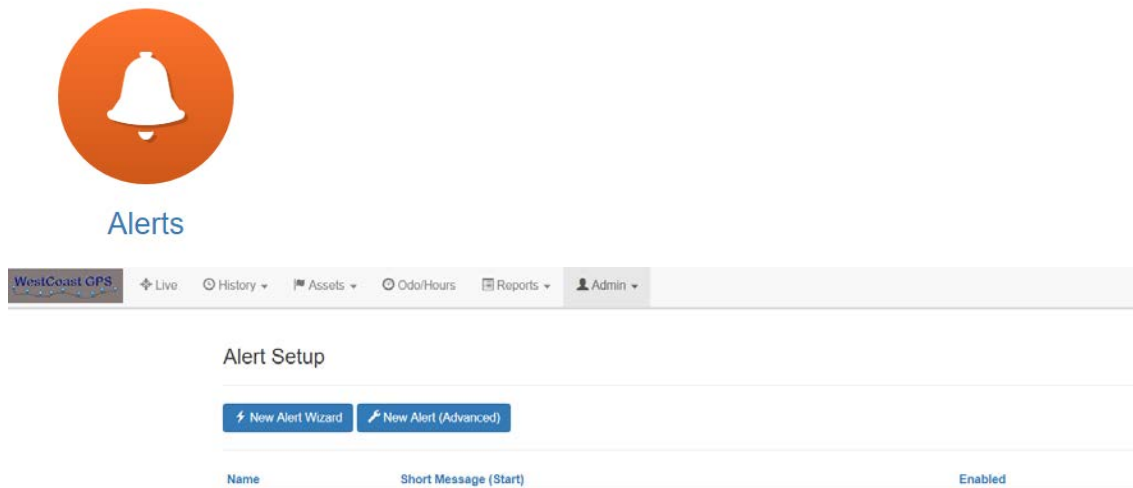
These are the advanced settings:



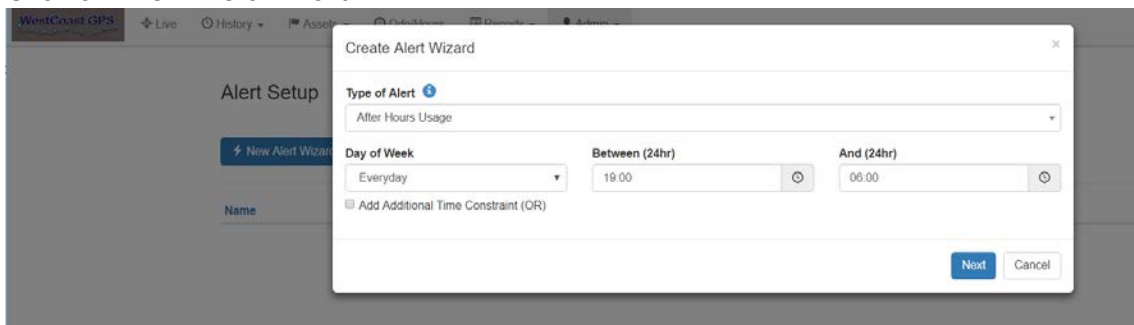
1. Priority: Geo Fences with a Higher priority are shown preference over those with a Lower priority. Where two Geo-Fences overlap with the same priority, the fence with the smallest area will be shown preference.
2. Exclude from trip assignment: If selected the Geo-Fence will only be used for setting up location based alerts. It will not be used when looking up trip start and end locations
3. Track asset activity in Geo-Fence: If selected, the system will record statistics for the asset activity inside this Geo-Fence.

11. ALERTS

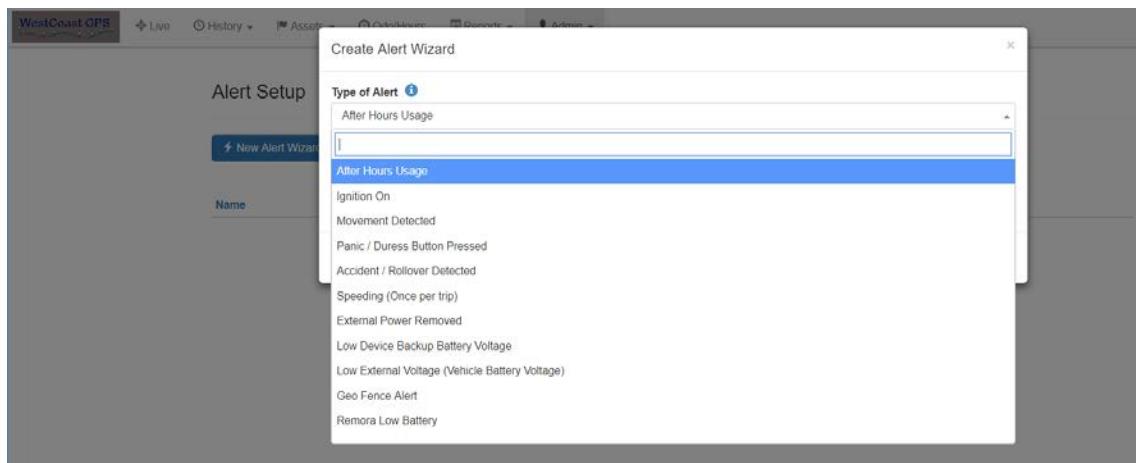
Setting up an **Alert** is easy. From the main menu (which you can reach by clicking the WestCoast GPS logo on the top left corner) select **Alerts** as shown below:



Click on “New Alert Wizard”



Select the Alert you want to set up:



Follow the prompts to set up which asset (device) you want to use for the **Alert** – in this case the **Oyster** and the email address or addresses you want the **Alert** to be sent to. If you have any problems or questions related to setting up alerts please contact WestcoastGPS at info@westcoastgps.com.