AM-GV500 OBD GPS Tracker
User Manual

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Welcome

Thank you for purchasing the Amcrest OBD GPS Tracker!

The AM-GL500MAP is a compact OBD device that plugs into a vehicle's OBDII port allowing easy installation for customers. It supports BLE 4.2 that is used for data transmission. Its internal OBD transreceiver can obtain information from the vehicle's onboard computer.

This device supports LTE Cat M1/NB1 network on multiple bands for operation in North America. This user manual is designed to be a reference tool for the installation and operation of your OBD GPS Tracker.

Here you can find information about the tracker's features and functions, as well as information to aid in troubleshooting.

To contact Amcrest support, please have your IMEI or ICCID number ready and do one of the following:

Visit http://amcrest.com/contacts and use the email form.

Call Amcrest Support using one of the following numbers:
Toll Free: (888) 212-7538
International Callers (Outside of US): +1-713-893-8956
USA: +1-713-893-8956
Canada: 437-888-0177
UK: 203-769-2757
Email Amcrest Customer Support @ amcrestgpssupport@amcrest.com

Important Security Warning

To keep your Amcrest OBD GPS tracker secure and prevent unauthorized access, please make sure to follow the steps below:



Change the default password after viewing your tracker on amcrestgps.com. Always ensure that your amcrestgps.com password is at least 8 characters long and contains a combination of lowercase characters, uppercase characters as well as numbers.

Important Safeguards and Warnings

Electrical Safety

All installation and operation should conform to your local electrical safety codes. The product must be grounded to reduce the risk of electric shock. We assume no liability or responsibility for any fires or electrical shock caused by improper handling or installation.

Transportation Security

Heavy stress, violent vibrations, and excess moisture should not occur during transportation, storage, and installation of the device. Do not adjust GPS tracker settings or placement while driving.

Repair Professionals
All the examination and repair work should be done by qualified service engineers. We are not liable for any problems caused by unauthorized modifications or user-attempted repair.

Environment
The GPS tracker should be kept in a cool, dry place away from direct sunlight, flammable materials, explosive substances, etc. This product should be transported, stored, and used only in the specified environments as stated above.

Operation and Maintenance
To clean dust or dirt off the GPS tracker, use an air blower or a microfiber cloth.

Accessories
Be sure to use only the accessories recommended by manufacturer. Before installation, please open the package and check to ensure that all the components are present. Contact the retailer that you purchased from, or Amcrest directly if anything is broken or missing in the package.

Legal Notice
Ensure strict observation of relevant laws to ensure this product cannot be used for any illegal purposes. Amcrest Technologies assumes no liability or risk for misuse of this product and any consequences of said misuse.

Introduction

This device is recommended for the tracking of vehicles as well as their performance. With a compact body and superior receiving capabilities, this device is an inconspicuous, yet powerful tracking solution only slightly larger than a matchbox.

The device has features such as fast TTFF (Time to First Fix), Quad Band GSM frequencies (900/1800), @Track protocol-based integration, GPRS/GSM based reporting, geo-fencing, and other features to ensure robust tracking capabilities.

Features

Below are the main features of your device:

Real-Time Tracking
Small Form Factor: 2” x 1” x .9”
Remote access via PC, Mac, iOS, or Android devices
Rechargeable Li-Polymer Battery, 2600mAh
Receive Location and Speed Alerts by E-mail & Text Message
Geo-fencing Capabilities

What's Included

Included in the box with the GPS are the following:

The OBD GPS Tracker
Mini USB 5V AC Power Adapter
SIM card information
Activation Card

Interfaces



Index	Description	Comment
1	SW_CAN	SW_CAN line of ISO 15765; Only supports 12V car battery
2	NC	No Connect
3	MS_CAN_H	MC_CAN_H line of ISO 15765
4	GND	Power and digital ground
5	GND	Power and digital ground
6	HS_CAN_H	HS_CAN_H line of ISO 15765
7	NC	No Connect
8	NC	No Connect
9	NC	No Connect
10	NC	No Connect
11	MS_CAN_L	MS_CAN_L line of ISO 15765
12	NC	No Connect
13	NC	No Connect
14	HS_CAN_L	HS_CAN_L line of ISO 15765
15	NC	No Connect
16	PWR	External DC power input, 8-32V

Motion Sensing Direction

This device has an internal 3-axis accelerometer that supports driving behavior monitoring, power conservation, and motion detection.

Device Status LEDs



LED	Device Status	LED Status
CELL	Searching for a network	Fast flashing
CELL	Registering to a network	Slow flashing
CELL	SIM card needs a pin code to unlink	Solid (ON)
GNSS	GNSS chip is powered off	OFF
GNSS	GNSS sends no data, or a data format error occurs.	Slow flashing
GNSS	GNSS chip is searching for GNSS information	Fast flashing
GNSS	GNSS chip has got GNSS information	Solid (ON)

Note:

1. The CELL LED and GNSS LED can be configured to turn off after a period of time using the configuration tool.
2. Fast flashing is about 60ms ON / 780ms OFF.
3. Slow flashing is about 60ms / 1940ms OFF.

Getting Started

Manager Tool

This is a software which can be used to configure the tracker. Please note, this is optional tool and is compatible with Windows computers only. It requires an optional USB Data_Cable_MC5 which will need to be purchased separately from the unit. To access the configuration tool or for more details on the software, please visit amcrest.com/support

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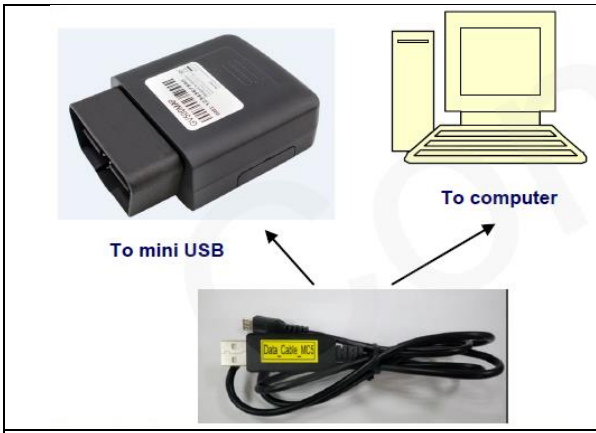
<td>
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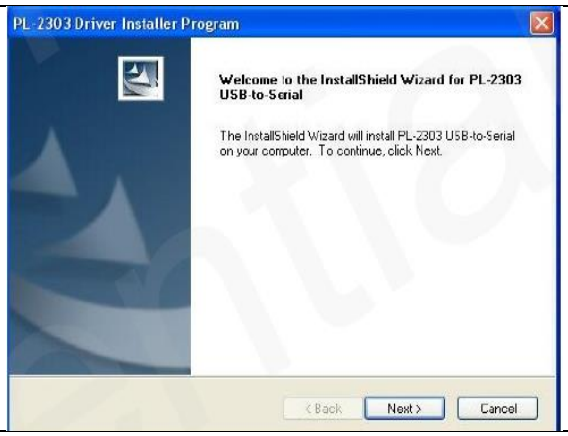
<td>
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<tr>
<td>1. Connect the OBD tracker to a USB port on your computer using a USB Data_Cable_MC5 (sold separately).</td>
<td>2. Download the software and install the driver to your Windows computer.</td>
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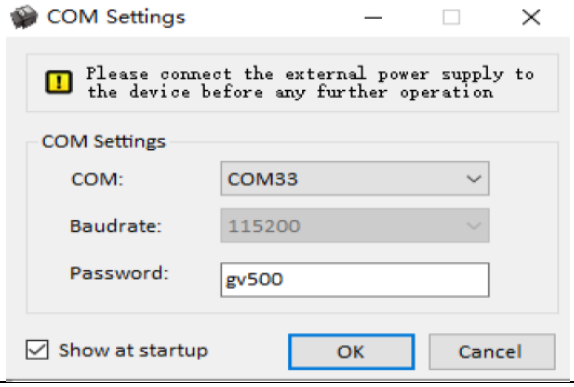
<td>
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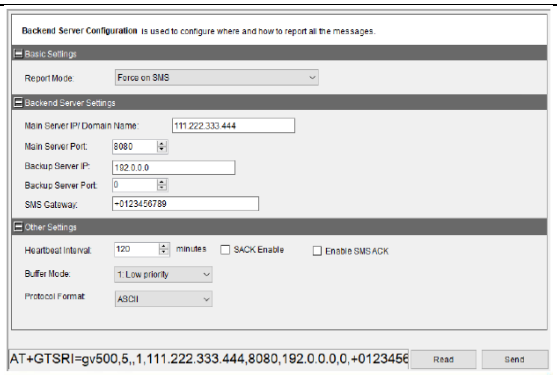
<td>
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<td>3. Open the manager tool and select the correct COM port. Input the default password “gv500” and click OK.</td>
<td>4. To test by SMS, set the “Report Mode” to “SMS” and input the phone number that will be used.</td>
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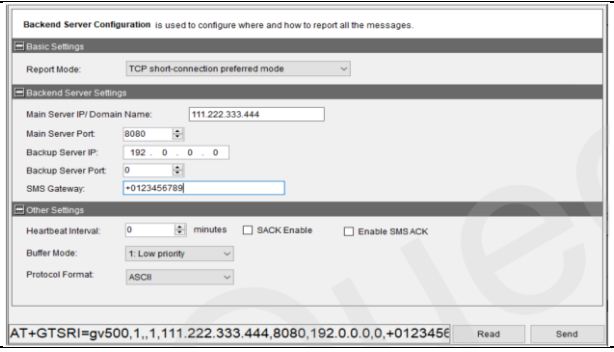
<td>
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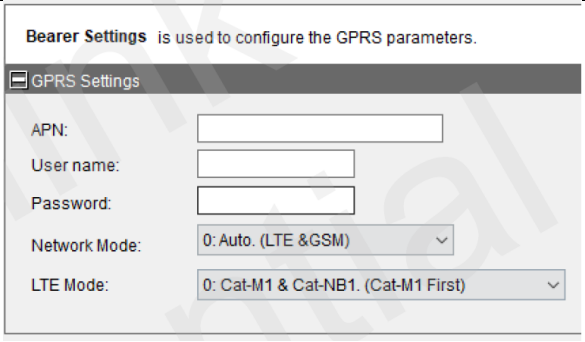
<td>
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<tr>
<td>5. Set the “Report Mode” to “TCP Short Connection. Input the IP address and port number of the backend server.</td>
<td>6. Enter the APN information for GPRS/LTE into the AT+GTBSI setting.</td>
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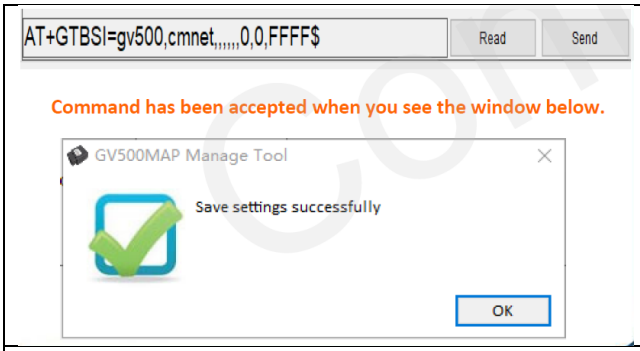
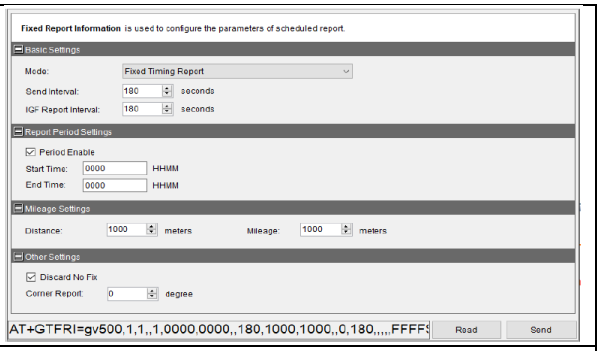
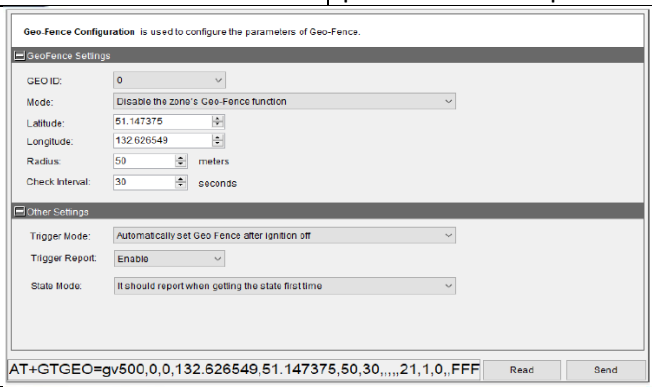


7. Press the "**Send**" button and update the parameters of the device. The device will then report information to your backend server or SMS. Click **OK**.



8. To report the device's position periodically to the backend server, set the parameters using the Fixed Timing Mode. Configure the intervals and press "Send" to update the parameters.



9. To set the geofencing rule, enter the geofencing data you would like to configure into the GeoFence Settings page and press "Send" to update the parameters.

Activating the Device

After purchasing the device, you must purchase a monthly service plan that allows the device to track and send data to your Amcrest account. You can activate your device and service plan at http://www.amcrestgpsfleet.com

To activate a plan, click on 'Activate GPS Device' and fill out the GPS activation form. If you choose to buy a second device, fill out the activation form and be sure to select 'ADD TO EXISTING ACCOUNT' under Activation Type.

Follow the activation steps on the site, and within 24 hours you will receive an email with details about the device, along with the username and password to log into your account. Change your password upon logging in for the first time and begin enjoying tracking your vehicle.

Note: When activating your device, make sure you are near a window or in an open sky environment that does not obstruct signal reception.

Device Placement

Before placing your device in its desired location ensure that the CELL LED is blinking to make sure it has proper reception in the position you placed it.
The GPS is not water resistant. It is recommended to not place the device in an area where it may get wet or water damaged.

OBD Protocol Synchronization Guide

Preparation Steps

Please follow the steps below to prepare for the OBD protocol synchronization process:

1. Set <Backup Battery Supply> in AT+GTCFG to 1 (default value is 0).
2. Set <OBD Check Interval> in AT+GTOBD to 30 (default value is 30).
3. Set <Virtual Ignition Mode> in AT+GTVMS to 0 (default value is 0).
4. Send AT+GTRTO with sub-command '1D' to clear exiting OBD related data stored in the device's memory.
5. Make sure the device can get a decent GNSS fix; If it is difficult to get valid GNSS fix, please keep the vehicle idle after inserting the tracker into the vehicle's OBD interface.

WARNING! Do not start using the tracker until the OBD protocol synchronization steps have been properly performed with Key On Engine Off (KOEO) and successfully completed. Not performing these steps will cause the tracker not to function properly.

Please follow the steps below to complete the OBD protocol synchronization process:

1. Turn the ignition key to the Key On Engine Off (KOEO) mode.
2. Insert the OBD tracker into the vehicle's OBD interface.
3. Check the LED light status (which indicates the result of the OBD protocol synchronization) after roughly 30 seconds.

LED Status	Synchronization Result	Troubleshooting
Two LED lights start flashing slowly at the same time for 30 seconds.	Success	N/A
Two LEDs light up solid for 30 seconds, and then resume their original functions.	Failure	The tracker has trouble communicating with your vehicles OBD interface. Please try the process again and if the problem persists, contact us for further support: amcrest.com/gpssupport

Amcrest GPS Portal (https://amcrestgpsfleet.com)

Getting Started

An active subscription must be created to access tracker information. To activate a subscription, please visit: https://amcrestgpsfleet.com

To log into the Amcrest OBD GPS portal, check your email for your Amcrest GPS activation email containing your username and password. For best security results, please change your password upon logging in for the first time.

Once you have successfully logged into your fleet GPS account, you will notice a map, the registered OBD tracker, and a series of menu tabs. These tabs help you navigate the portal and access and customize settings for your device.



See below table for an explanation of each major area of the interface:

1. Main Menu	View your profile, change your account password, logout, cancel a tracking subscription, update payment information, reactivate a subscription, view transaction history, update a subscription plan.
2. Features	View real time map, trips, and reports. Create custom zone and set alerts.
3. Asset List	Displays all OBD tracking devices associated with your GPS account.
4. Attributions	Displays diagnostic and current status of the vehicle.
5. Zoom	Zoom in (+) and out (-) on the real time map.
6. Quick Links	Change Map views (options), view notifications, upload GPX, modify saved routes.

User Interface Walkthrough

This section will explore the different menu items in the GPS Portal Interface. See below for an explanation of each menu item:

Map	This tab shows the last location of the device, as well as access different map tools.
Trips	This tab allows the user to see trip history and play trips.
Reports	This tab allows the user to access and manage tracking event reports.
Zones	This tab allows the user to create and manage zones (geofences).
Alerts	This tab allows the user to create and manage alerts.

Map Tab

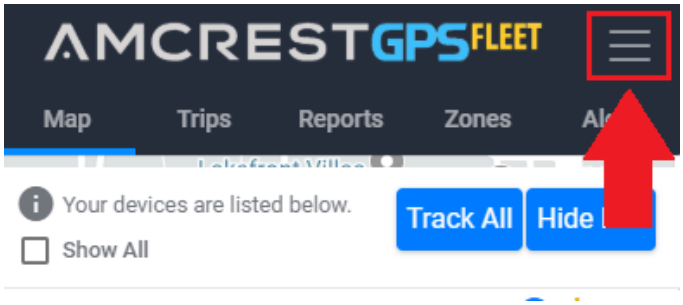


This tab shows the last known location of the device, as well as allows for use of many different map tools. The map tab consists of 6 main control areas:

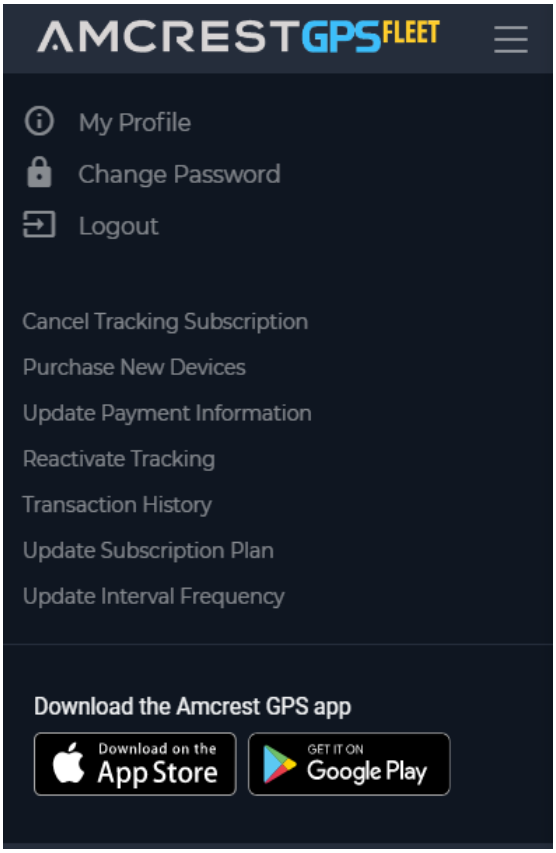
Main Menu – In the main menu you can view your profile, change your account password, logout, cancel a tracking subscription, update payment information, reactivate a subscription, view transaction history, update a subscription plan.
Features – View real time map, trips, and reports. Create custom zone and set alerts.
Asset List – Displays all OBD tracking devices associated with your GPS account.
Attribute/Location - Displays status of the vehicle. Shows if the vehicle is in motion, idle, and on.
Zoom - Zoom in (+) and out (-) on the real time map.
Quick Links - Change Map views (options), view notifications, upload GPX, modify saved routes.

Main Menu

The main menu allows you to access and modify general account information. To access the main menu, click on the main menu icon ( ) located on the interface.



The main menu allows the user to view GPS profile information, change passwords, logout, cancel a subscription, purchase new devices, etc. The interface also provides a direct link to download the Amcrest GPS Fleet app. The app is available for both iOS and Android devices via the App Store and Google Play store.



My Profile

Access and adjust profile settings on your account. Please note, all information on this form can be updated except for the email address. If an email address will need to be updated on the subscription, please contact Amcrest directly to make the proper changes on the account.

Change Password

To change the password the user will need access to have access to the old password. Enter the old password into the interface, enter the new password and confirm the password. Click **Save** to change the password.

Logout
Click Logout to logout of the account.

Cancel Tracking Subscription
This option will guide the user to a cancelation form which will need to be filled out to cancel their GPS subscription. Follow the form completely and submit it to cancel the subscription. For direct access to a cancelation form, please visit: https://amcrestgpsfleet.com/gps-activation/#/cancellation

Purchase New Devices
This option provides the user with a direct link to new GPS devices that are available for purchase.

Update Payment Information
This option will guide the user to a form in which subscription payment information can be updated.

Reactivate Tracking
This option will guide the user to a reactivation form for any cancelled devices on their account.

Transaction History
This option provides a user with all transaction history as well as an option to download any invoices, if necessary, for each device on the account.

Update Subscription Plan
This option will guide the user to a form which allows them to update a GPS plan, per device attached to the account.

Update Interval Frequency
This option provides a quick link to upgrade to a lesser interval GPS tracking plan.

Download the Amcrest GPS app
The Amcrest GPS app allows the user to access their device directly via their mobile device. The app is available on both the iOS and Android platforms via the App Store and Google Play store.

Menu Tabs

This section will explore the different menu items in the GPS Portal Interface. See below for an explanation of each menu item:

Map	This tab shows the last location of the device, as well as access different map tools.
Trips	This tab allows the user to see trip history and play trips.
Reports	This tab allows the user to access and manage tracking event reports.
Zones	This tab allows the user to create and manage zones (geofences).
Alerts	This tab allows the user to create and manage alerts.

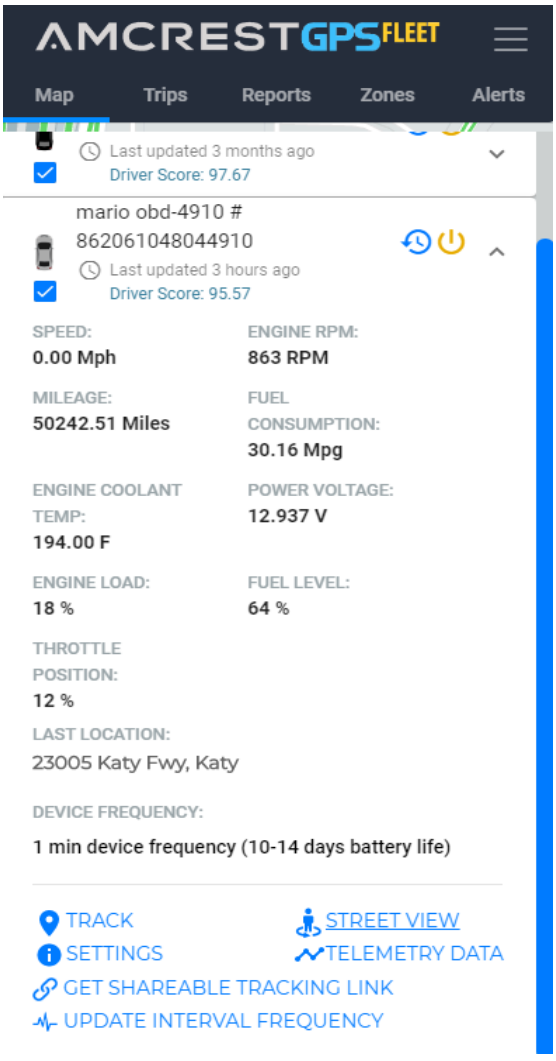
Asset List

The asset list displays all devices associated with your current GPS subscription as well as their last report time, and driver score.

Track All – Allows the user to select all assets.
Show/Hide List – Hides and displays the asset list.
Show All – Selects all the assets available on the subscription.
Recent Trips ( ) – Quick access to recent trips (Last trip, Today's trip, yesterday's trip, 7 days of trips, or a custom range of trips.
Reboot ( ) – Provides an option to reboot the device. This will only occur when the device is not reporting any activity.
Driver Score – An algorithm which provides an average for driving habits of the user over a specific range.

Asset Info

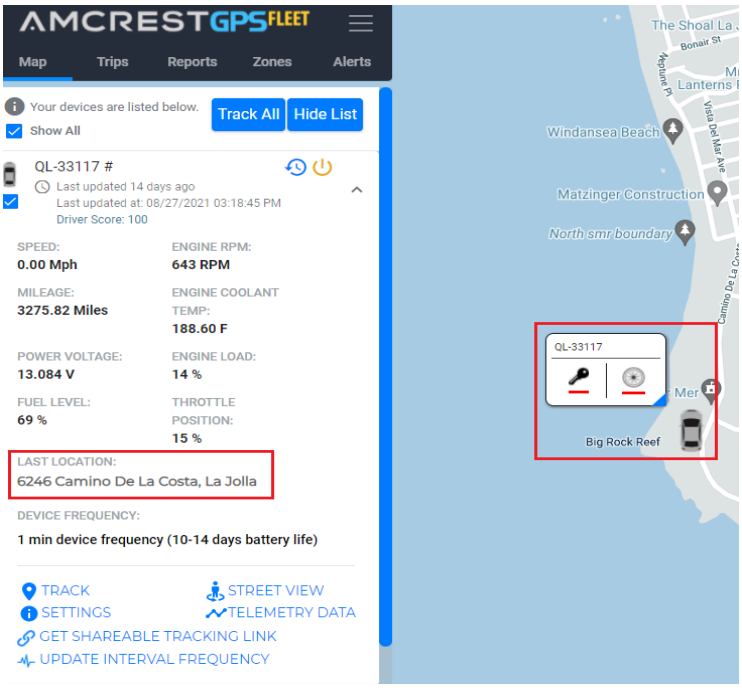
This drop-down menu allows the user to view specific diagnostic information related to their vehicle.



Speed – Displays the current miles per hour (MPH) of the vehicle.
Engine RPM – Displays the last RPM data of the vehicle.
Mileage – Displays the current mileage of the vehicle.
Fuel Consumption – Displays the estimated fuel consumption of the vehicle while in motion.
Engine Coolant Temp - Displays the last reported coolant temperature of the vehicle.
Power Voltage – Displays the last reported power consumption level being used by the device.
Engine Load – Displays the last reported torque output percentage of the vehicle.
Fuel Level - Displays the last reported fuel level percentage of the vehicle.
Throttle Position - Displays the last reported percentage of how far down the accelerator pedal has been down. This is relative and based upon the internal TPS system of the vehicle.
Last Location – Displays the last known location of the device.
Device Frequency – The refresh frequency of the device. The default refresh rate is 60 seconds which provides 10-14 days of battery life.
Track – Displays the current position of the device.
Settings – Allows the user to access alert information as well as enable or disable diagnostic alerts.
Street View – Provides a Google powered street view of where the device is reporting.
Telemetry Data: Export telemetry data, via an excel file, within a specific date and time range.
Get Shareable Tracking Link: This option provides a shareable link in which the user can share the location of the device.
Update Interval Frequency / Battery Life: This option provides a quick link to upgrade to a lesser interval GPS tracking plan.

Track

The tracking option is a feature in the GPS portal that allows you to access real time information on the location of your GPS. To access the track location feature, click on the **Track** option in the device list menu. The view location option will provide a map of the device's location as well as an address.



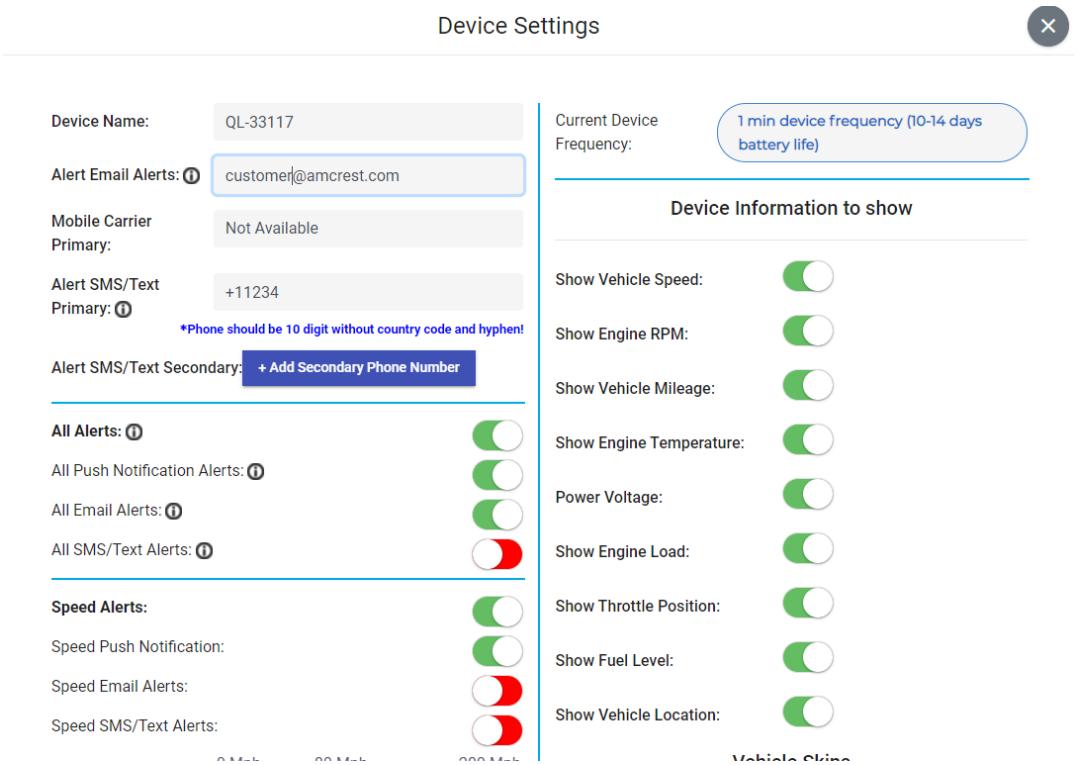
Street View

The street view option allows the user to view a Google map, street view, image for the location of the device.



Settings

The settings menu allows the user to enable or disable alert options such as push notifications, email alerts, trip alerts, speed alerts, power on/off alerts, engine on/off alerts, etc.



For a brief description of each option, please refer to the information provided below.

Device Name: The name of the device being used.
Alert Email: The current account email being used.
Mobile Carrier Primary: Select a primary mobile carrier.
Alert/SMS/Text Primary: The primary means of receiving SMS.
Alert Secondary SMS/Text: The secondary way of receiving SMS.
All Alerts: Enable or disable push, email, and SMS/text notifications for all alert types.
All Push Notification Alerts: Enable or disable push notifications for each alert type.
All Email Alerts: Enable or disable all email alerts for each alert type.
All SMS/Text Alerts: Enable to allow all SMS alerts for each alert type.
Speed Alerts: This section is used to enable or disable speed alert notifications.
Speed Push Notifications: Enable speed push notification alerts.
Speed Email Alerts: Enable/disable speed-related email alerts.
Speed SMS/Text Alerts: Enable/disable speed-related SMS alerts.
Speed Limit: Use this slider to set the MPH threshold for speed alerts.
Engine On/Off Alerts: Enable or disable all event notifications related to engine on/off activity.
Engine On/Off Push Notifications: Enable/disable push notifications for engine on/off activity.
Engine On/Off Email Alerts: Enable/disable email alerts for engine on/off activity.
Engine On/Off SMS/Text Alerts: Enable/disable SMS alerts for engine on/off activity.
Harsh Behaviour Alerts: Enable or disable event notifications related to abrupt behaviour detected by the GPS.
Harsh Braking Push Notification: Enable/disable push notifications to be sent if the vehicle stops too abruptly.
Harsh Braking Email Alerts: Enable/disable email alerts to be sent if the vehicle stops too abruptly.
Harsh Braking SMS/Text Alerts: Enable/disable SMS alerts to be sent if the vehicle stops too abruptly.
Harsh Turning Push Notification: Enable/disable push notifications to be sent if the vehicle turns too abruptly.
Harsh Turning Email Alerts: Enable/disable email alerts to be sent if the vehicle turns too abruptly.
Harsh Turning SMS/Text Alerts: Enable/disable SMS alerts to be sent if the vehicle turns too abruptly.
Harsh Acceleration Push Notification: Enable/disable push notifications to be sent if the vehicle accelerates too quickly.
Harsh Acceleration Email Alerts: Enable/disable email alerts to be sent if the vehicle accelerates too quickly.
Harsh Acceleration SMS/Text Alerts: Enable/disable SMS alerts to be sent if the vehicle accelerates too quickly.
Towing Alerts: Enable or disable event notifications if the vehicle is turned off and is actively being moved.
Towing Push Notification: Enable or disable push notifications to be sent if the vehicle is turned off and actively being moved.
Towing Email Alerts: Enable or disable email alerts to be sent if the vehicle is turned off and actively being moved.
Towing SMS/Text Alerts: Enable or disable SMS alerts to be sent if the vehicle is turned off and actively being moved.
Warning/Emission Alerts: Enable or disable event notifications to be sent if the car's emissions are above the warning limits threshold of the device.
Warning/Emission Push Notification: Enable or disable push notifications to be sent if the car's emissions are above the warning limits threshold of the device.

Warning/Emission Email Alerts: Enable or disable email alerts to be sent if the car's emissions are above the warning limits threshold of the device.
Warning/Emission SMS/Text Alerts: Enable or disable SMS alerts to be sent if the car's emissions are above the warning limits threshold of the device.
Trip End Timer: Use this slider to set a range in which a trip will end. The end time can range from three minutes to 10 minutes.
Fuel Tank Capacity: Set a percentage threshold, in gallons or liters, in which the device will alert of low fuel.
Update Odometer: Set a threshold, in miles, in which the device will alert of
Current Device Frequency: Displays the current device frequency. Please note, a one-minute device frequency will provide about 10-14 days of battery life.
Device information to show: This section allows the user to enable or disable which parameters will be shown in the asset menu.
Vehicle Skins: This section allows the user to display which vehicle type and color is currently associated with the GPS tracker.
Vehicle Type: Set which type of vehicle is currently being tracker.
Tracker Color: Set the vehicle color to which the device is attached.

Click the **Save** button to save and apply settings.

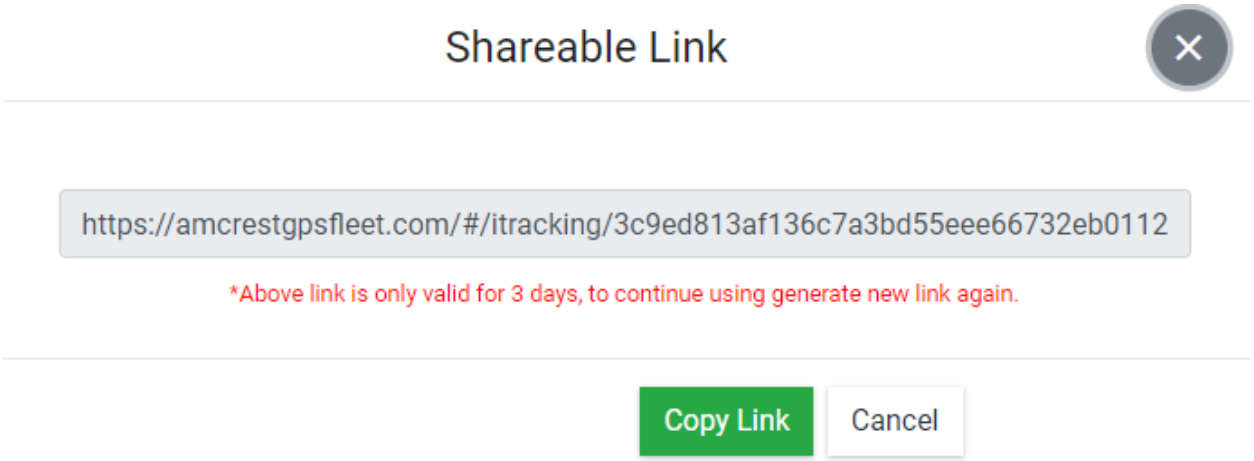
Telemetry Data

This option allows the user to export a spreadsheet of telemetry data such as, latitude and longitude, speed, GPS accuracy, GPS UTC time, etc.

To export telemetry data, click the **Telemetry Data** option and choose a date and time range. Telemetry data from the last 10 days can only be exported. Click **Apply** and then click **Export CSV**, the spreadsheet will download to your device.

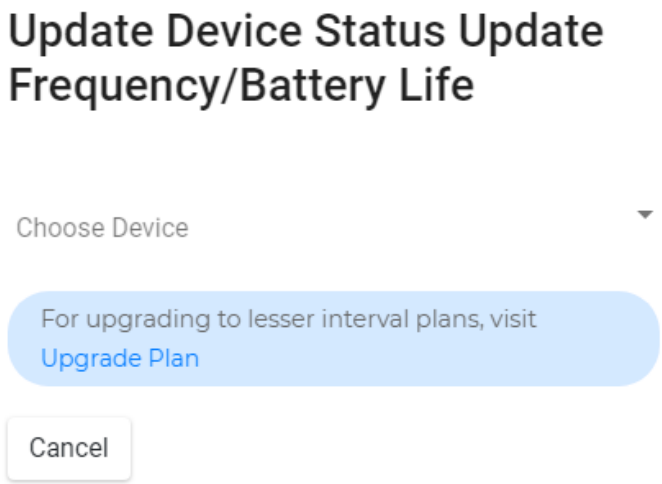
Get Shareable Tracking Link

This option allows the user to generate a shareable tracking link which can be provided to multiple users to track the device. Click **Copy Link** to copy the provided link.



Update Interval Frequency / Battery Life

This option provides a quick link to upgrade to a lesser interval GPS tracking plan. **Please do not let the battery go below 10%** if the battery is below 10% charge make sure to charge it or connect using a power supply.



Trips Tab

The trips tab allows the user to access trip history as well as provides a detailed path in which the vehicle was being tracked.

Below is a screenshot of the trip menu:

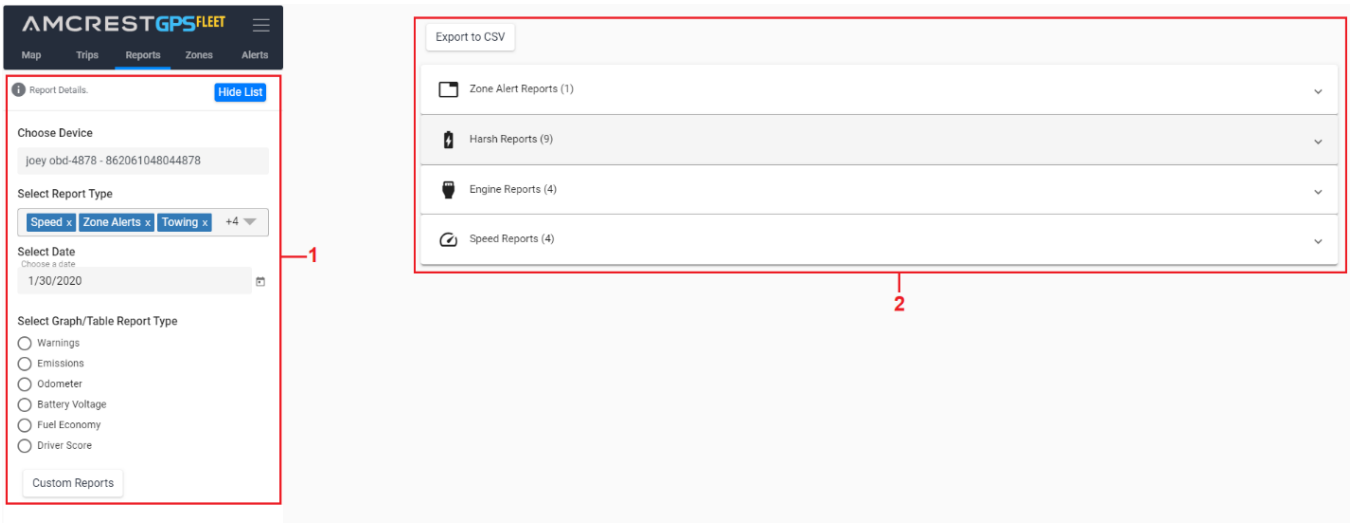


This tab has 5 main areas:

1. **Choose Device –** This drop-down menu allows the user to choose which device they would like to pull trip data.
   Hide/Show List – Hides all trip data information. Click the Show List option to display trip data.
   Choose a date – Provides a calendar of trip events for the selected device. Days with trip data will be highlighted in green. Click the "More" option to display additional viewing options such as the last trip reported, today's trips, yesterday's trips, or a custom range trip.
   Export to PDF/CSV – Displays a downloadable list of the trip data selected. A pdf or excel sheet (CSV) can also be printed if necessary.
   Custom PDF/CSV Export – Allows the user to choose a date range of trip data which can be exported via a pdf or excel sheet.
   Show Last 7 Days – Displays all trip data that happened within a 7-day period.
   Show Last 30 Days – Displays all trip data that happened within a 30-day period.
   Run 24Hr – Runs an animated, point by point, route of all trip data reported in the last 24 hours.
   Show 24Hr – Displays point by point trip data routes on the map.
   Delete Trips – Allows users to delete trips.
2. **Trip Metrics –** Displays the number of miles in the trip, the date and time range, duration, as well as a to and from route.
   Show Trip – Displays a point by point route of the trip data.
   Run Trip – Runs an animated, point by point route of the selected trip.
   Summary – Displays a trip summary of the selected trip which includes the IMEI number of the device that is being reported, the miles of the trip, average RPMs, average throttle position, fuel consumption, max engine load, max RPMs, max throttle position, idle time, and average engine load.
3. **Trip Details –** Click the start or end location pinpoint to display trip details. Details include speed, mileage of the vehicle at that moment, the time of the start or end point, and the last reported location. A Google powered street view can also be viewed by clicking "Street View".
4. **Start Location –** Displays the start point of the selected trip. Symbolized with a green pinpoint.
5. **Finish Location –** Displays here the trip ended for the selected trip of the device. Symbolized with a red pinpoint.

Reports

The reports tab allows the user to view a graph/table of all reported data. Data from the reports tab can be exported to a CSV/Export file which can be downloaded to your computer.

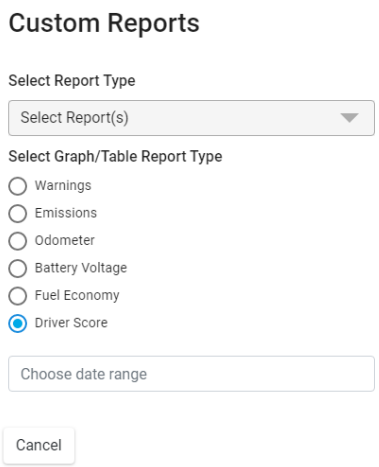


There are 2 different sections in this tab:

1. **Report Details –** Allows the user to choose which device they would like to view, which report type to view, date, as well as which table or graph type. Custom reports can also be viewed in this menu.
   - **Hide/Show List –** Hides all trip data information. Click the Show List option to display trip data.
   - **Choose Device –** This drop-down menu allows the user to choose which device they would like to use to general a report.
   - **Select Report Type –** This drop-down menu allows the user to choose which reports to generate.
     - **Zone Alerts –** Reporting of each time the vehicle has entered or exited a custom zone.
     - **Speed –** Reporting of all excess speed limit.
     - **Towing –** Reporting of each time the vehicle is in tow or is being towed.
     - **Attach Detach –** Reporting of each time the OBD has been attached or detached from the vehicle.
     - **Harsh Behavior –** Reporting of all unknown harsh acceleration and/or turning behavior.
     - **Engine –** Reporting of each time the engine is turned on or off.
     - **Notifications –** Reporting of all notification activity that has occurred on the vehicle.
   - **Select Date –** Provides a calendar of each day a report is available. Days with report data will be highlighted in green. Select the date to view reports for that day.
   - **Select Graph / Table Report Type –** Provides additional custom graphical report type data. This data is based on a date range which is chosen by the user. For optimal use, click on Custom Reports to view this information.
     - **Warnings –** Reports any instances of any warning lights provided by the vehicle.
     - **Emissions –** Reports general emissions data (Lb/Gallon) of the vehicle.
     - **Odometer –** Reports the miles driven in the selected date range.
     - **Battery Voltage –** Reports the minimum, maximum, and average battery voltage.
     - **Fuel Economy –** Reports the fuel economy (miles/gallon) used by the vehicle.
     - **Driver Score –** Graphically displays the drivers score based on the selected date range.

Custom Reports

Custom reports of each attribute can be generated based on a specific date and range. Below is a screenshot of the custom reports interface:

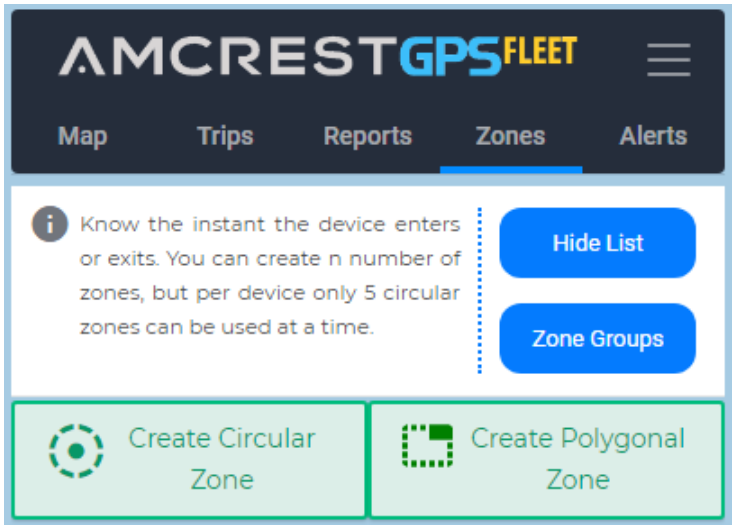


To generate a custom report, select a report type from the **Report Type** drop down menu and select a graph/table report type. Click on **Choose date range** and select a start and end time for the report. Click on Get Reports to generate a custom report.

Zones Tab

The Zones tab allows the user to create a virtual geographic boundary which will alert the user if the device enters or exits a specific zone. The user can create a circular zone or a polygonal type zone.

Below is a screenshot of the Zones tab:

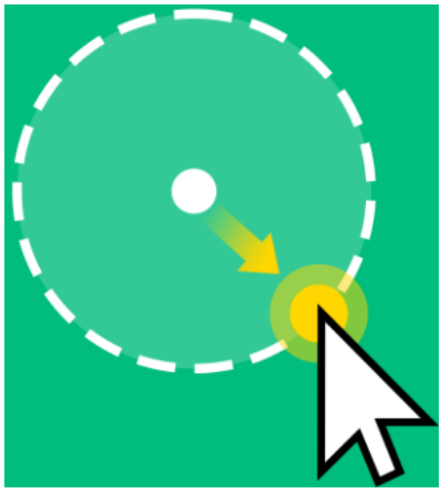


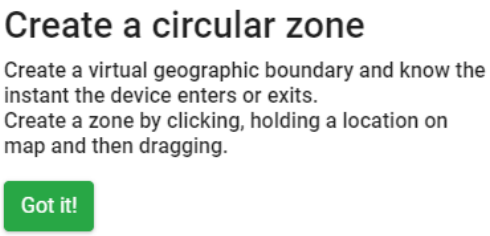
Note: The user can create as many zones as they want however, only a max of 5 zones can be used at a time per device. Make sure to use the map option to create your custom zone.

Hide/Show List – This button allows the user to hide or show an added circular or polygonal zone.
Zone Groups – Allows the user to set and organize zones into specific zone groups.

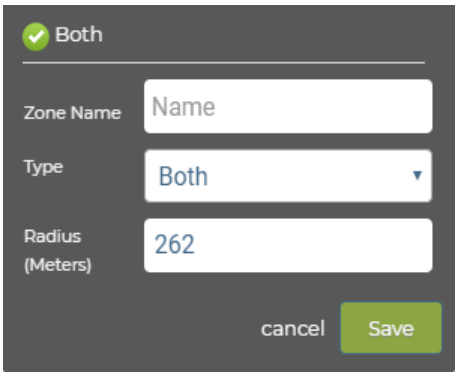
Creating a Circular Zone

To proceed with creating a circular zone, click on either **"Create Circular Zone"** button and click the **"Got It!"** button:





To begin setting a circular zone, click on the map and use your mouse to adjust the circular zone. Use your mouse on the map to set a circular zone. A box will appear on the lower right corner of the screen allowing you to create a name for your zone, type, and the radius. The radius of the set zone will be measured in meters on the screen.



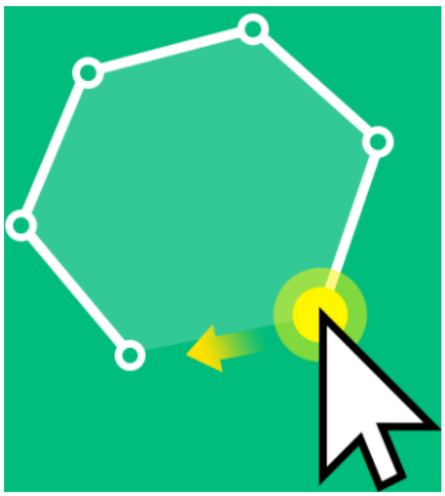
Enter the name of your zone, then select which type (entry, exit, both) of zone you would like to use. An entry type will trigger an alert when the vehicle enters a specific area, an exit type will trigger an alert

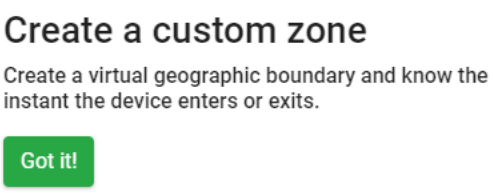
when the vehicle exits a specific area, and a “both” type will trigger an alert whether the vehicle enters or exits the specified zone. Click the **Save** button to save your zone settings.

To receive the alerts when the device enters the “Zone Entry” zone or exits the “Zone Exit” zone, alert should be created by selecting the specific zone(s). Click on “**Goto Create Alert**” to begin setting up alerts for your newly created zones.

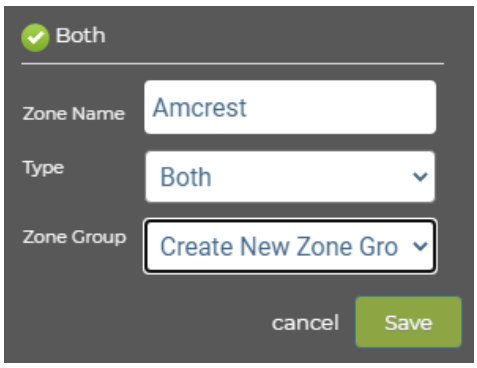
Creating a Polygonal Zone

To proceed with creating a polygonal zone, click on either **“Create Polygonal Zone”** button and click the **“Got It!”** button:





To begin setting a polygonal zone, click on the map and use your mouse to create a polygonal zone. A box will appear on the lower right corner of the screen allowing you to create a name for your zone, type.



Enter the name of your zone, then select which type (entry, exit, both) of zone you would like to use. An entry type will trigger an alert when the vehicle enters a specific area, an exit type will trigger an alert when the vehicle exits a specific area, and a "both" type will trigger an alert whether the vehicle enters or exits the specified zone.

Click on the **Zone Group** dropdown menu too assign the zone to a specific zone group. If you have not created a zone group, click on **Create New Zone Group** option, and create a new zone group. Click the **Save** button to save your zone settings.

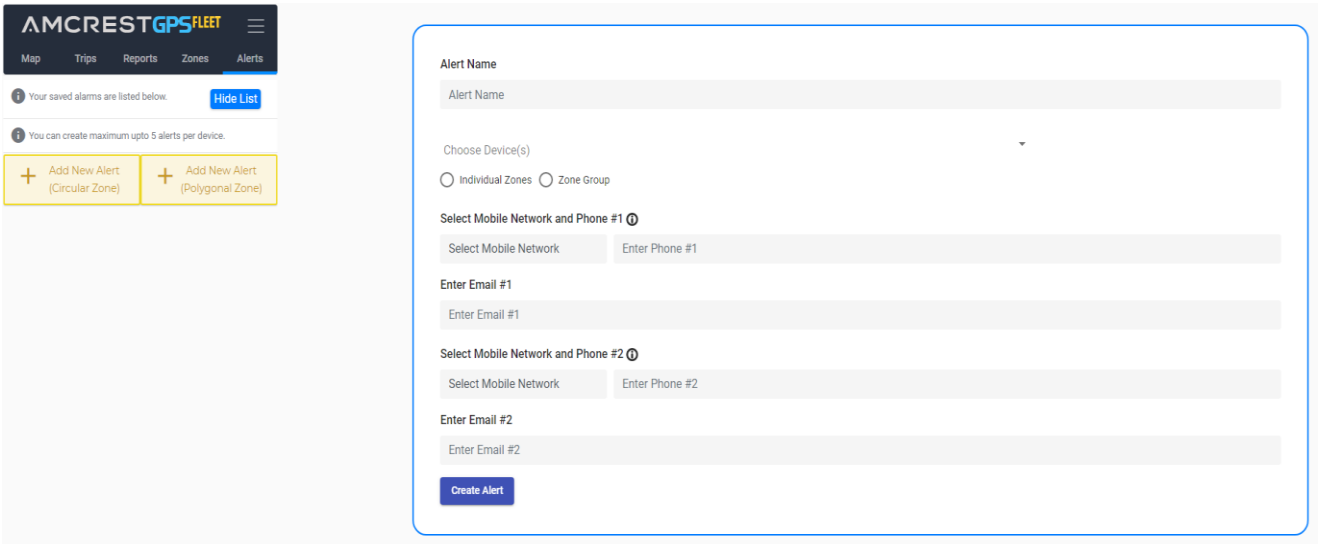
To receive the alerts when the device enters the "Zone Entry" zone or exits the "Zone Exit" zone, alert should be created by selecting the specific zone(s). Click on "**Goto Create Alert**" to begin setting up alerts for your newly created zones.

Alerts

This tab allows you to create and manage new alerts for your device. Please note, an alert cannot be established without creating a designated custom zone.

Setting Up a New Alert

All saved alerts will be displayed in the alerts tab. You can create a maximum of 5 alerts per device. An alert can be setup for a circular or polygonal zone. Click on the appropriate Add New Alert button to begin.



To begin setting up a new alert, enter a name for your alert in the **Alert Name** field. Choose which device the alert will apply to via the **Choose Device dropdown** list. Select whether the alert will apply to either an individual zone or a specific zone group and choose the zone type from the dropdown menu.

Next, click on the **"Select Mobile Network"** dropdown menu and select which mobile network the alerts will be sending SMS notifications. If your mobile network is not listed, you can choose "Others".

A valid email address is also recommended as a secondary means of receiving the alert. Click on "**Create Alert"**. The new alert has been created.

The new alert has been added to the Alerts menu. To edit the alert, click on the dropdown menu and click on "**View/Edit**". You can also delete the alert by clicking the "**Delete**" button.

Amcrest GPS Fleet Application

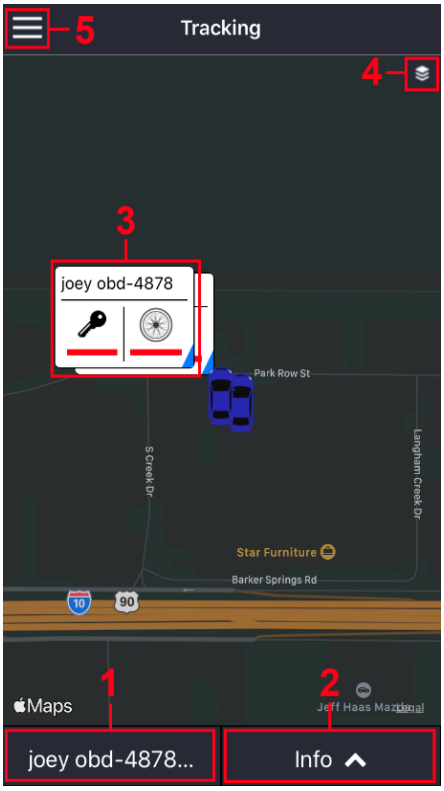
iOS App Setup

The iOS Amcrest Fleet app does not allow users to register an account via the app. To get started, make sure you have registered an Amcrest GPS account and activated your OBD GPS tracker. This can be done by going to www.amcrest.com/gps-activation on a laptop or computer and registering an account. Once an active account is made and your device has been activated you can download the Amcrest GPS Fleet app via the App Store.

Download on the App Store

Map

Once logged in you will be taken to the map screen which will display your active devices.



1. Device Menu – Tap the device menu to choose between multiple devices.
2. Info – Tap the Info tab to view specific diagnostic information related to their vehicle. Items inside the Info tab include:
Speed – Displays the current miles per hour (MPH) of the vehicle.
Engine RPM – Displays the last RPM data of the vehicle.
Mileage – Displays the current mileage of the vehicle.
Fuel Consumption – Displays the estimated fuel consumption of the vehicle while in motion.
Engine Coolant Temp - Displays the last reported coolant temperature of the vehicle.
Power Voltage – Displays the last reported power consumption level being used by the device.
Engine Load – Displays the last reported torque output percentage of the vehicle.
Fuel Level - Displays the last reported fuel level percentage of the vehicle.
Throttle Position - Displays the last reported percentage of how far down the accelerator pedal has been down. This is relative and based upon the internal TPS system of the vehicle.
Location – Displays the last known location of the device.
3. Attribute/Location - Displays current location of the vehicle. Shows if the vehicle is in motion, idle, as well as device information.
4. Map View – Tap to choose between different map views. Choose between standard, satellite, or Hybrid views.

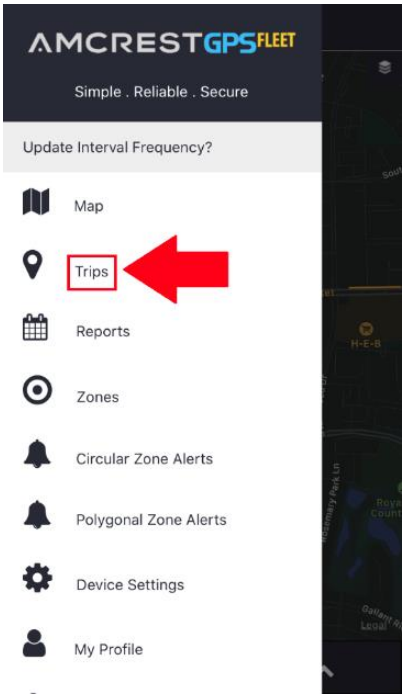
5. Settings - Tap the settings ( ) icon in the upper left corner of the screen to access in app features for your GPS.

Settings Menu

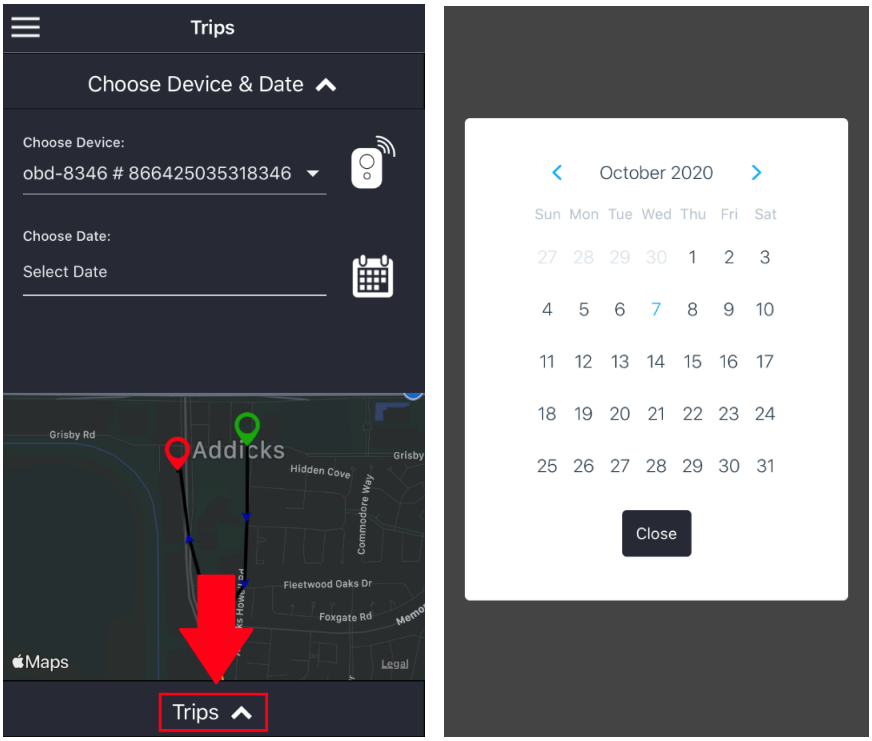
Map	This tab shows the last location of the device, as well as allows for use of many different map tools.
Trips	This tab allows the user to see trip history and play trips.
Reports	This tab allows the user to create and manage custom zones (geofences).
Zones	This tab allows the user to manage custom zone alerts.
Zone Groups	This tab allows the user to access and manage zone groups.
Circular Zone Alerts	This tab allows the user to set or manage a circular zone alert for a zone.
Polygonal Zone Alerts	This tab allows the user to set or manage a polygonal zone alert for a zone.
Device Settings	This tab allows the user to adjust tracking settings and alerts.
My Profile	This tab allows you to adjust or modify your account settings and information.
Change Password	This tab allows you to adjust modify your password (must have old password)
Logout	This tab allows the user to sign out of their GPS tracker account.

Trips

This tab allows the user to see trip history and play recorded trip data. To access the trips menu, please select "**Trips"** from the main menu.

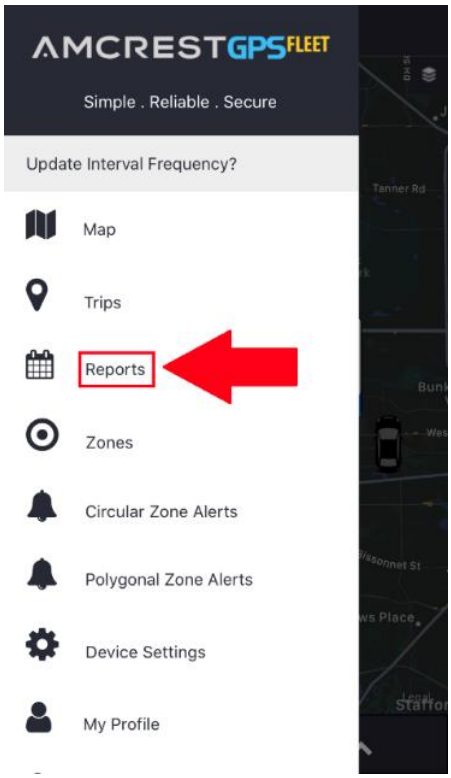


A representation of the last known trip data will be displayed on the map interface. For details on the current trip, tap on the **Trips** option. To search for specific trip data, tap on the Select Date option and choose a reporting date from the provided calendar.

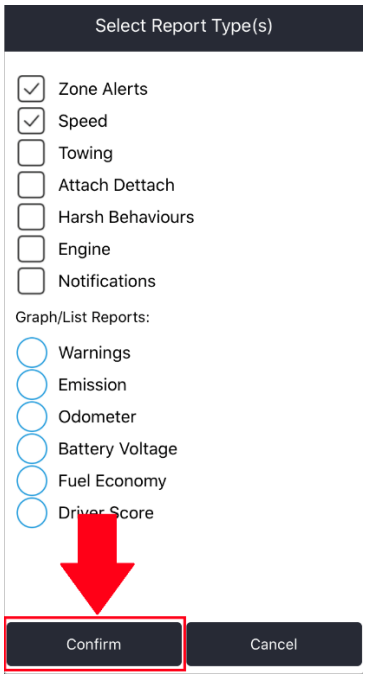


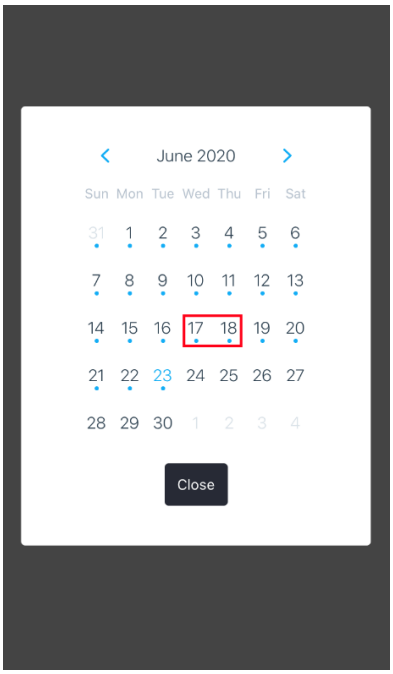
Reports

The reports tab allows the user to create custom reports and alerts regarding the functionality and status of the device. Tap on the **Reports** option to access the interface.

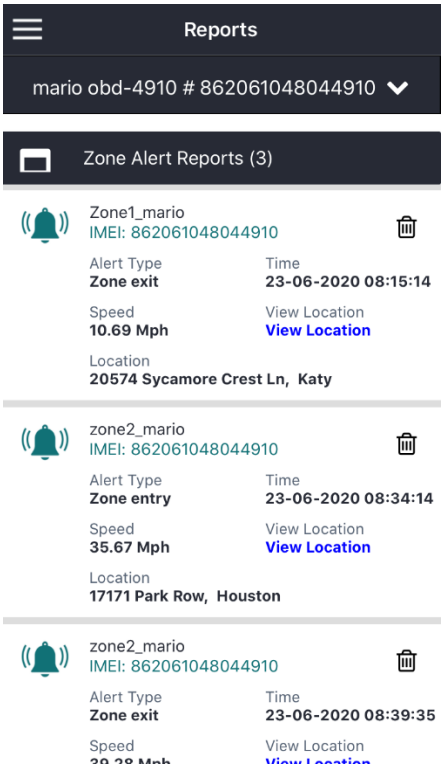


Select the GPS device from the interface and select a report type from the **Choose Report Type** drop down menu. Select all applicable report types and tap **Confirm**. Tap on the tap on the **Select Date** option located in the reports interface. A calendar will be displayed which shows applicable dates with reported data. Data is represented by a blue dot in the interface. Tap on the represented date to populate report data.

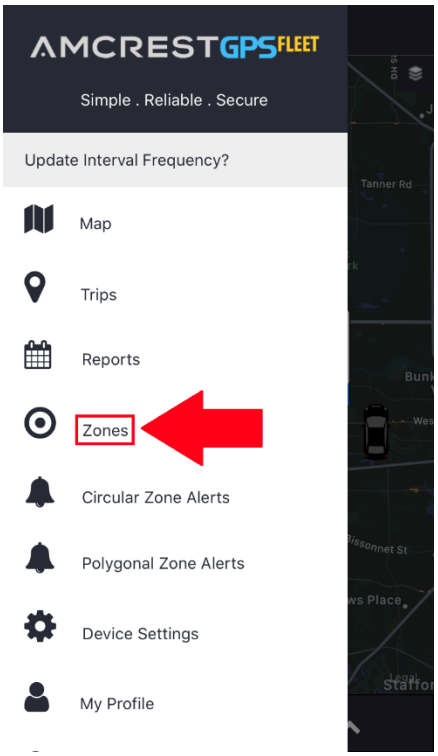




A list of reports for each specific report type will be displayed. Tap on the report type to be viewed to view all data listed in the report. Tap on **View Location** to view the location of the report.



Zones



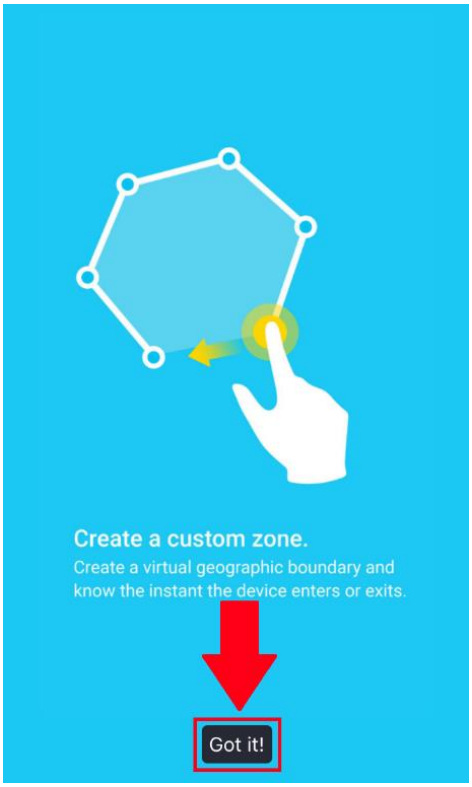
The Zones tab allows the user to create a virtual geographic boundary which will alert the user if the device enters or exits a specific zone.

Tap on the **Zones** option to access the interface.

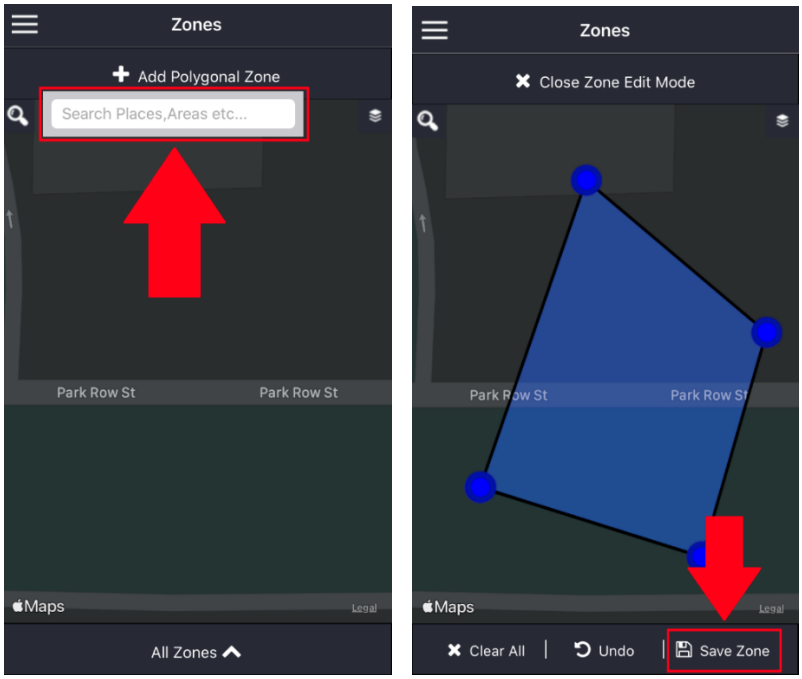
Tip: To create a zone, start searching locations from the top-left search icon.

To add a custom zone, click on the "**+ Add Polygonal Zone**" option. Click "Got It!" in the prompt to begin.

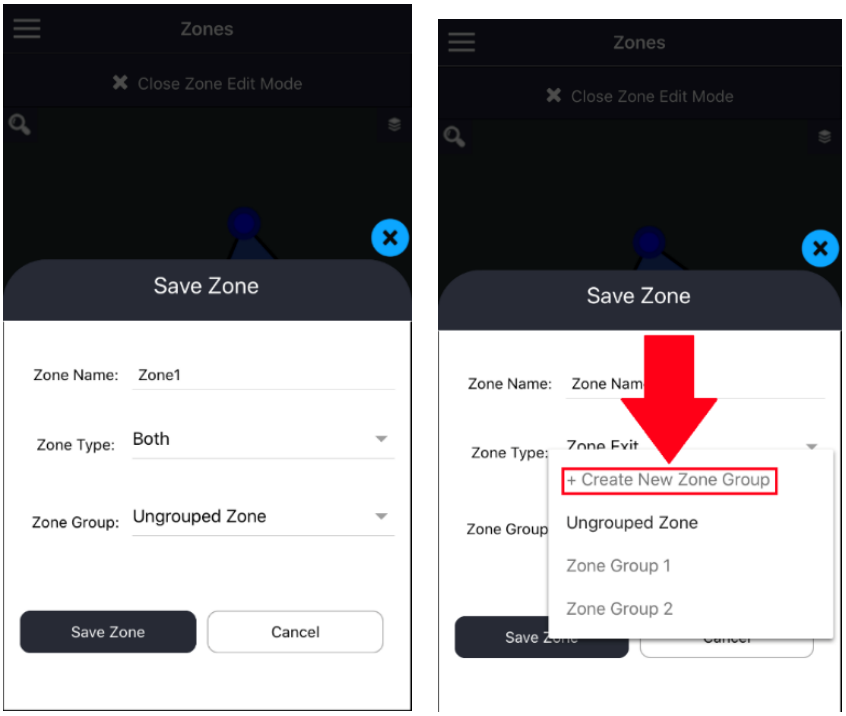




Use the search tool in the left-hand corner to select an area to draw the custom zone. Tap on the interface to create a custom zone in a specific area of the map. Click **Save Zone** once all points have been set.



Enter a name for the zone and choose which type of zone will be reported. This can be an alert when the device enters a zone, exits a zone, or both. A zone group can be applied to the zone, via the **Zone Group** menu. Select a group from the interface or tap on "**+ Create New Zone Group**" to create a new group.

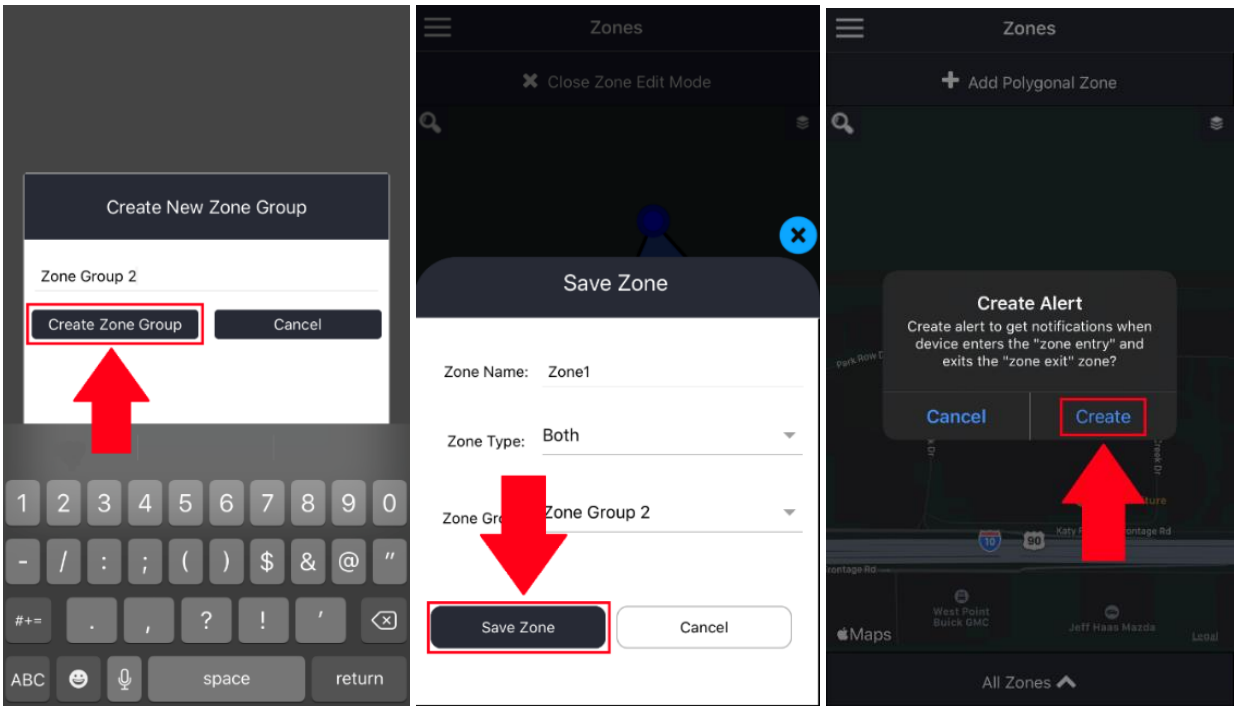


Creating a New Zone Group

A Zone Group allows multiple zones to be grouped in the interface for a specific device. To create a zone group, tap on the "**+ Create New Zone Group**".

Note: The zone can be ungrouped in the interface, however, if multiple zones need to be applied to a device it is highly recommended to create a zone group.

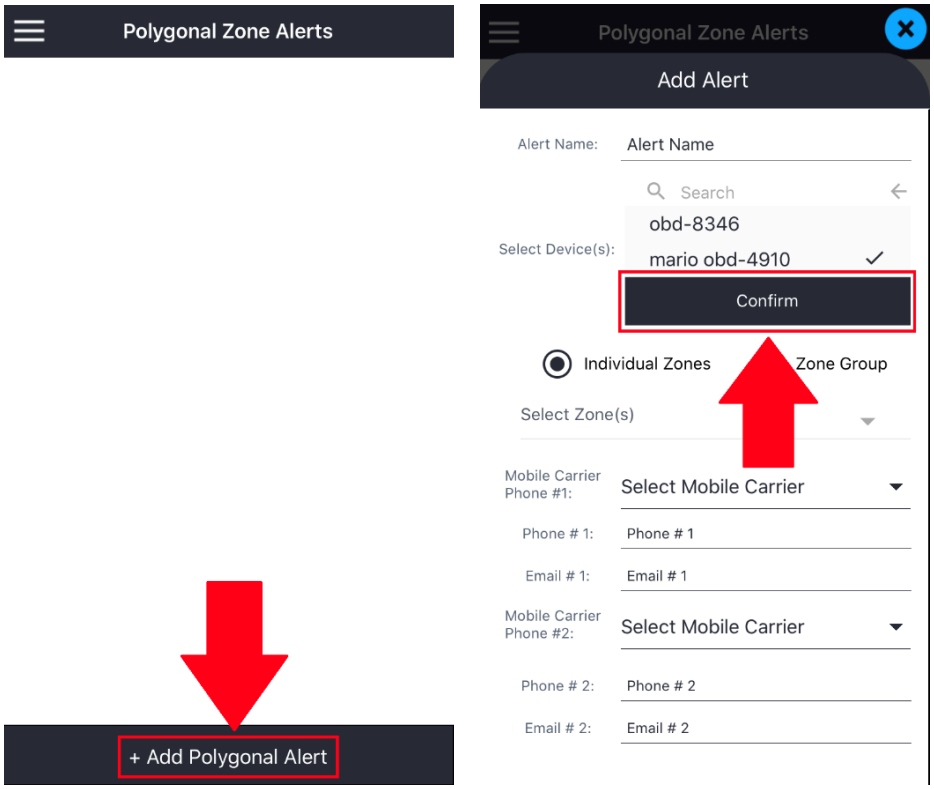
Enter a name for the zone group and click **Create Zone Group**. The zone group will be applied to the zone, tap on **Save Zone** to save, and apply the custom zone to the device. Tap on "**Create**" to create the zone.



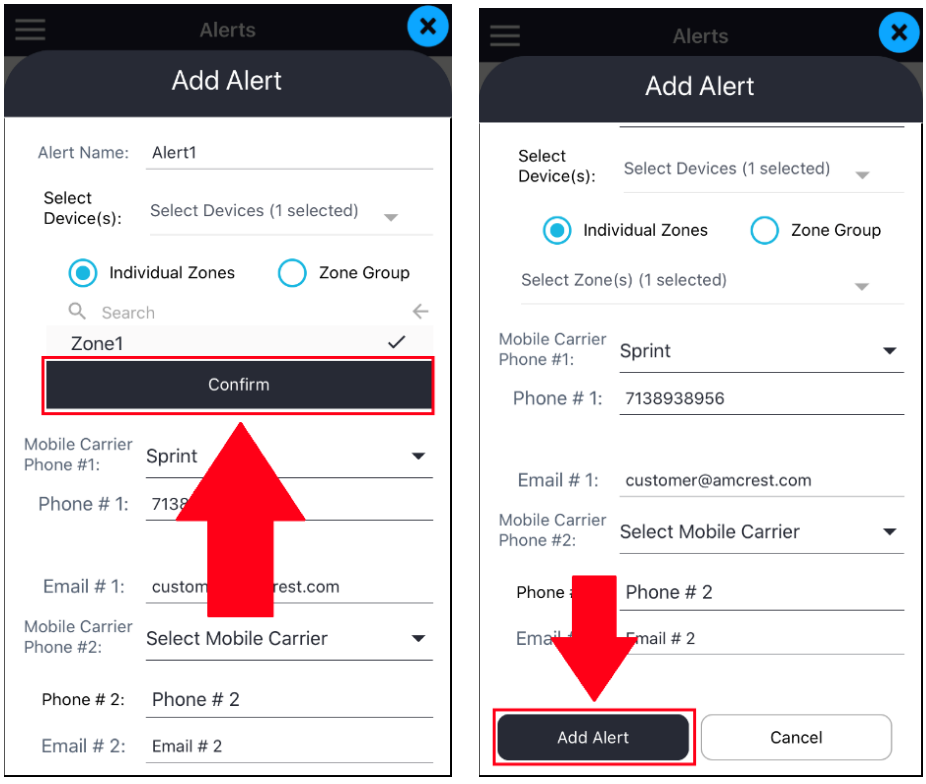
Adding Zone Alerts

Once a zone alert has been created the interface will prompt the user to create an alert. Zone alerts are used to provide push notification alerts to your mobile device if a device enters or exits a custom zone. An email can also be used to receive zone alerts if applicable.

A zone alert can be applied to multiple devices in the interface and can be applied to individual (ungrouped) zones or specific zone groups. To begin creating an alert, tap on "**+Add Polygonal Alert**". Enter a name for the alert in the interface and tap on the **Select Device(s)** drop down menu to select your device. Multiple devices can be applied to a single alert if necessary. Tap **Confirm** for add a device into the Alert setup interface.



Select whether the alert will apply to individual zones or a zone group. Tap on the **Select Zone(s)** drop down menu and select the applicable zone for the alert from the menu and tap **Confirm**.



Enter all necessary information in the alert menu, select the current mobile carrier for your mobile device from the **Mobile Carrier Phone** drop down menu, then enter a phone number in which push notifications will be sent. If applicable, enter a valid email address the in the Email field. Another mobile device can be used as well for the same alert in the #2 fields. Tap **Add Alert** to apply the alert to your device.

Alerts can be created and edited as well in the Alerts menu in the app. To delete an alert, select the alert from the interface and click delete to delete the alert.

Circular Zone Alerts
Circular zone alerts are currently unavailable on iOS. Only polygonal zones can be created on the app.

Polygonal Zone Alerts

Polygonal zone alerts are used to modify or add existing polygonal zone alerts. To add a polygonal alert, tap on **+Add Polygonal Alert** and repeat the steps provided in the *Adding Zone Alerts* portion of the *Zones* section.

Device Settings

This option allows the user to reboot the GPS device, as well as other specific device settings such as the device name, alert email, mobile carrier, alert SMS phone numbers, as well as enable/disable push notifications for specific device attributes and alerts. Press the **Save** button to save device settings.

My Profile

Access and adjust profile settings on your account. Please note, all information in this section can be updated except for the email address. If an email address will need to be updated on the subscription, please contact Amcrest directly to make the proper changes on the account.

Change Password

To change the password the user will need access to have access to the old password. Enter the old password into the interface, enter the new password and confirm the password. Click **Save** to change the password.

GPS Application Setup

Android Application Setup

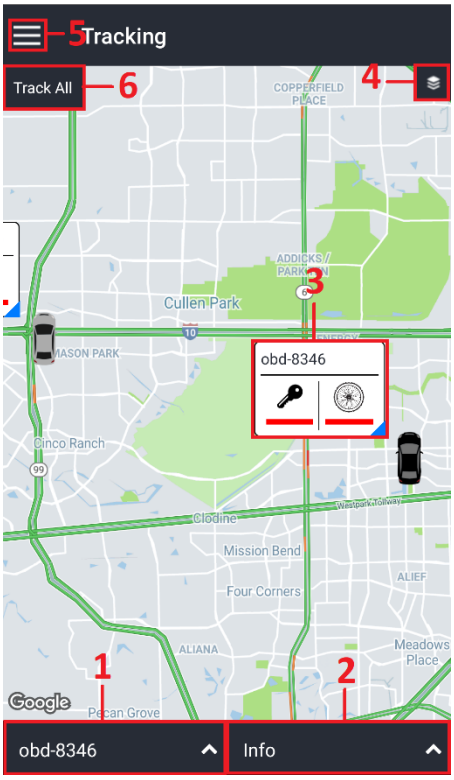
To get started using the Amcrest GPS app on Android download the Amcrest GPS app from the Google Play store.



The Android app allows you to activate and access your GPS device directly from the app. To activate a new device in the app, open the app and press **Activate GPS Device**.

Map

Once logged in you will be taken to the map screen which will display your active devices. Provided in this menu will be a list of options related to the initial map interface. For more information on the features listed in this menu, please refer to the details provided below.



1. Device Menu – Tap the device menu to choose between multiple devices.

2. Info – Tap the Info tab to view specific diagnostic information related to their vehicle. Items inside the Info tab include:

Speed – Displays the current miles per hour (MPH) of the vehicle.

Engine RPM – Displays the last RPM data of the vehicle.

Mileage – Displays the current mileage of the vehicle.

Fuel Consumption – Displays the estimated fuel consumption of the vehicle while in motion.

Engine Coolant Temp - Displays the last reported coolant temperature of the vehicle.

Power Voltage – Displays the last reported power consumption level being used by the device.

Engine Load – Displays the last reported torque output percentage of the vehicle.

Fuel Level - Displays the last reported fuel level percentage of the vehicle.

Throttle Position - Displays the last reported percentage of how far down the accelerator pedal has been down. This is relative and based upon the internal TPS system of the vehicle.

Location – Displays the last known location of the device.

3. Attribute/Location - Displays current location of the vehicle. Shows if the vehicle is in motion, idle, as well as device information.

4. Map View – Tap to choose between different map views. Choose between standard, satellite, or Hybrid views.

5. Settings - Tap the settings ( ) icon in the upper left corner of the screen to access in app features for your GPS.

6. Track All – Allows the interface to track and display all connected devices on the map interface.

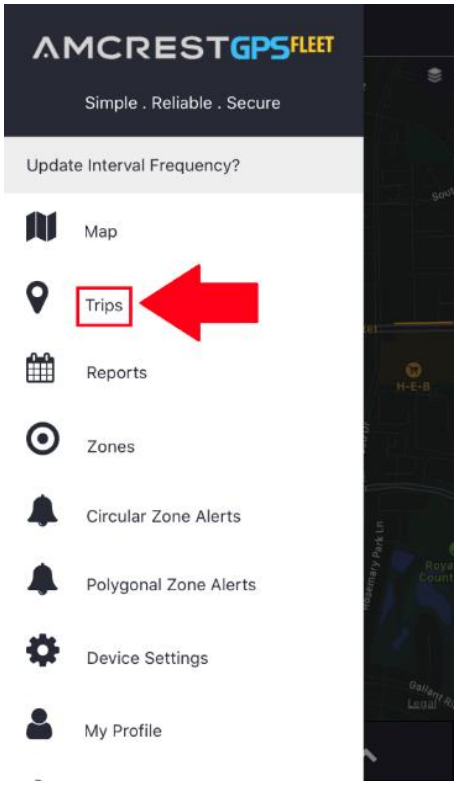
Settings Menu

Map	This tab shows the last location of the device, as well as allows for use of many different map tools.
Trips	This tab allows the user to see trip history and play trips.
Reports	This tab allows the user to create and manage custom zones (geofences).
Zones	This tab allows the user to manage custom zone alerts.
Zone Groups	This tab allows the user to access and manage zone groups.
Circular Zone Alerts	This tab allows the user to set or manage a circular zone alert for a selected zone.
Polygonal Zone Alerts	This tab allows the user to set or manage a polygonal zone alert for a selected zone.

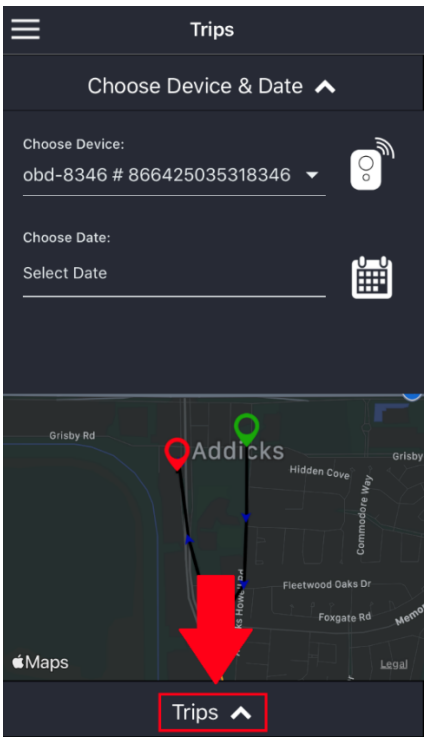
Device Settings	This tab allows the user to adjust tracking settings and alerts.
My Profile	This tab allows you to adjust or modify your account settings and information.
Change Password	This tab allows you to adjust modify your password (must have old password)
Logout	This tab allows the user to sign out of their GPS tracker account.

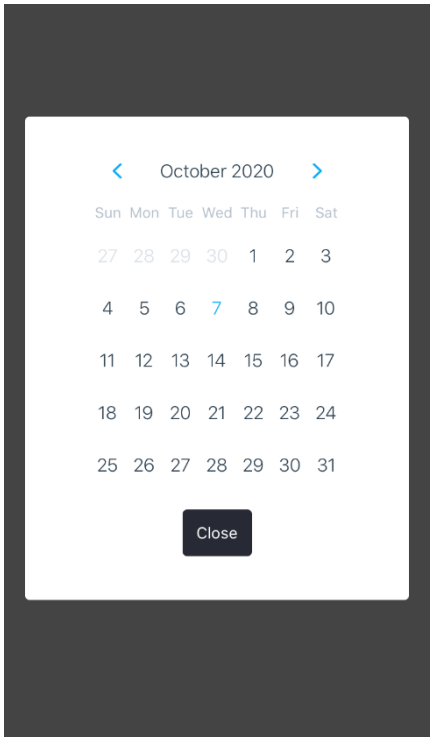
Trips

This tab allows the user to see trip history and play recorded trip data. To access the trips menu, please select "**Trips"** from the main menu.



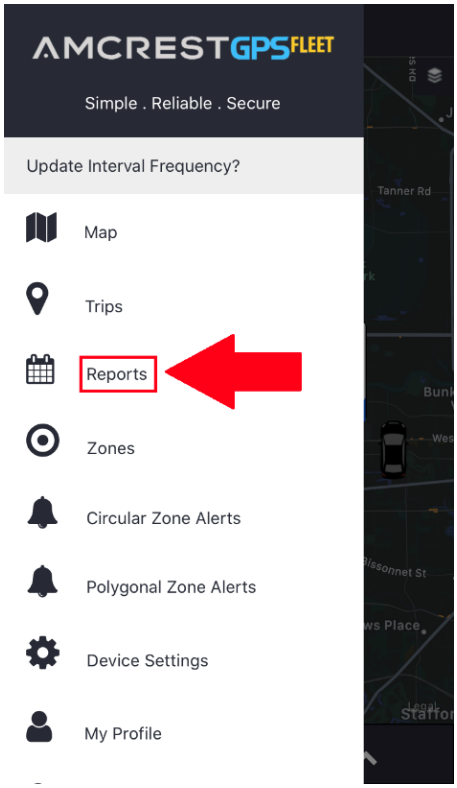
A representation of the last known trip data will be displayed on the map interface. For details on the current trip, tap on the **Trips** option. To search for specific trip data, tap on the Select Date option and choose a reporting date from the provided calendar.



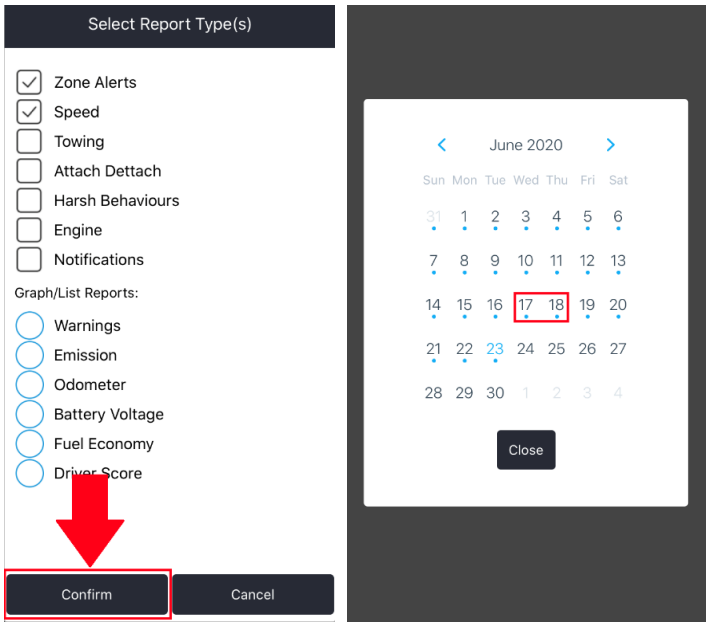


Reports

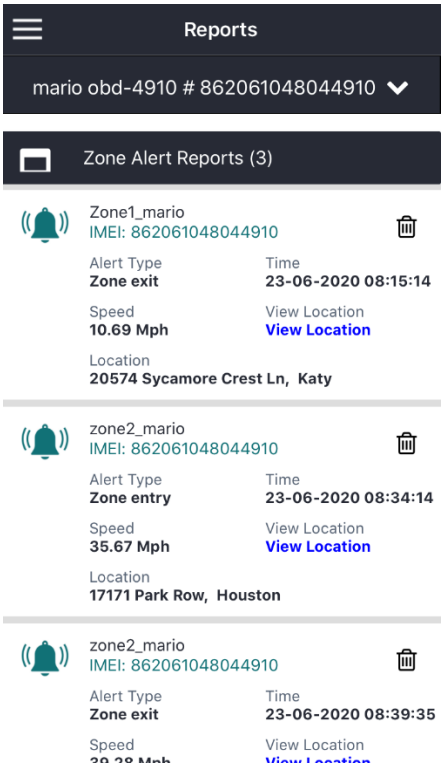
The reports tab allows the user to create custom reports and alerts regarding the functionality and status of the device. Tap on the **Reports** option to access the interface.



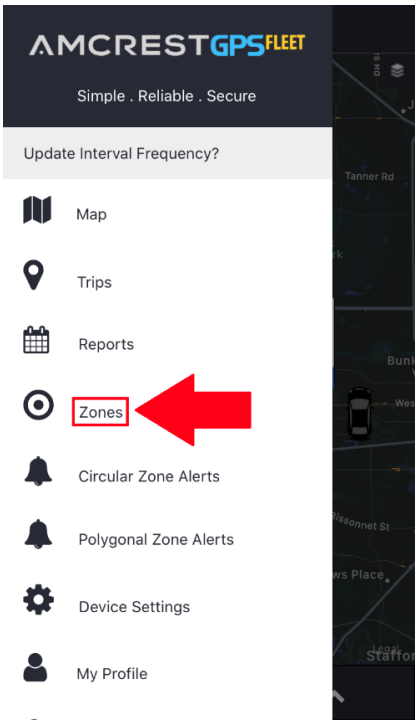
Select the GPS device from the interface and select a report type from the **Choose Report Type** drop down menu. Select all applicable report types and tap **Confirm**. Tap on the tap on the **Select Date** option located in the reports interface. A calendar will be displayed which shows applicable dates with reported data. Data is represented by a blue dot in the interface. Tap on the represented date to populate report data.



A list of reports for each specific report type will be displayed. Tap on the report type to be viewed to view all data listed in the report. Tap on **View Location** to view the location of the report.



Zones

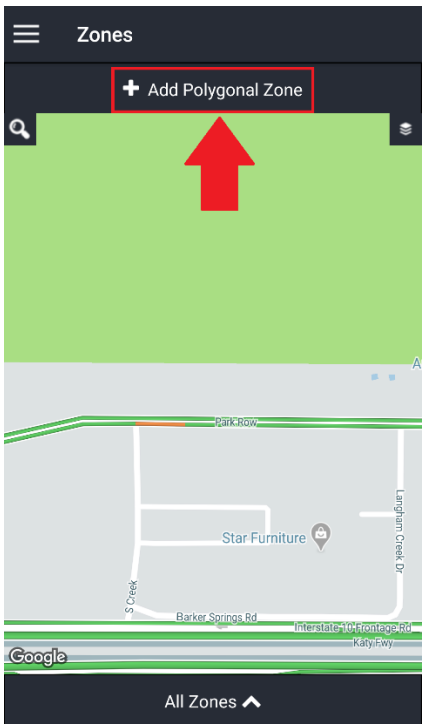


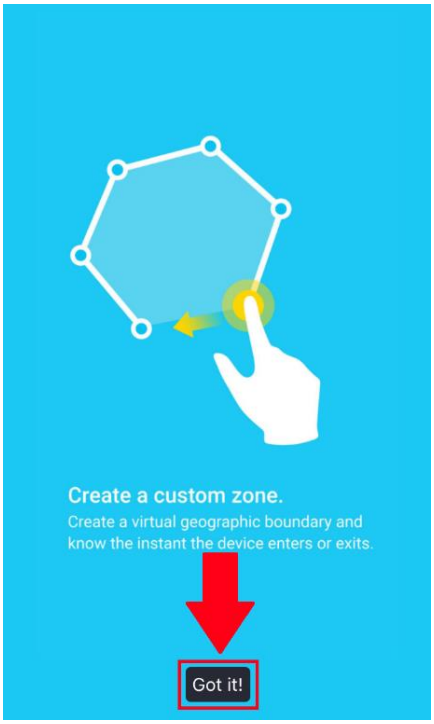
The Zones tab allows the user to create a virtual geographic boundary which will alert the user if the device enters or exits a specific zone.

Tap on the **Zones** option to access the interface.

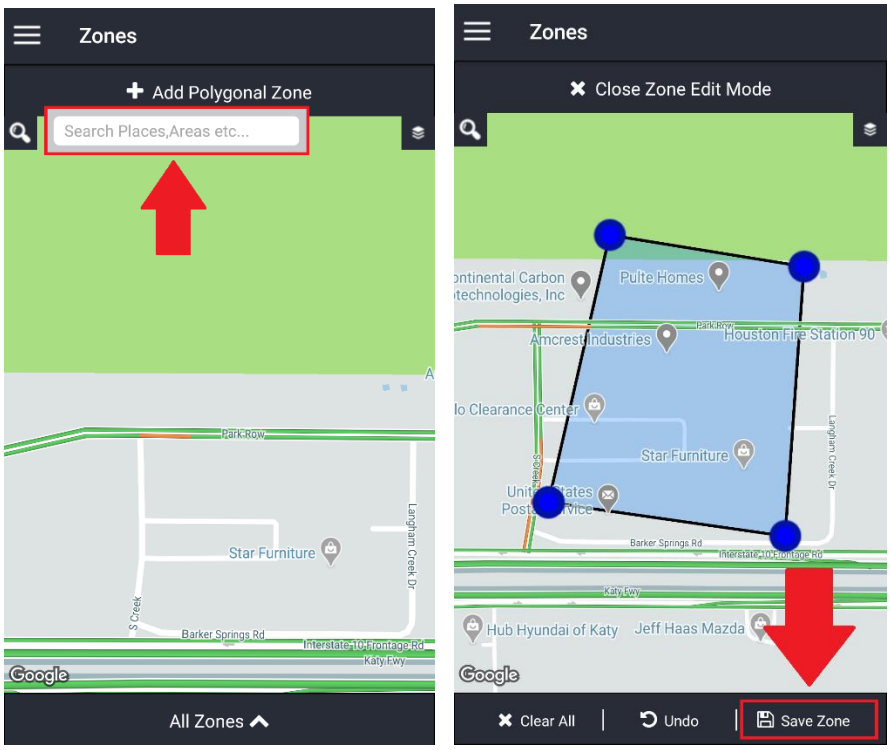
Tip: To create a zone, start searching locations from the top-left search icon.

To add a custom zone, click on the "**+ Add Polygonal Zone**" option. Click "Got It!" in the prompt to begin.

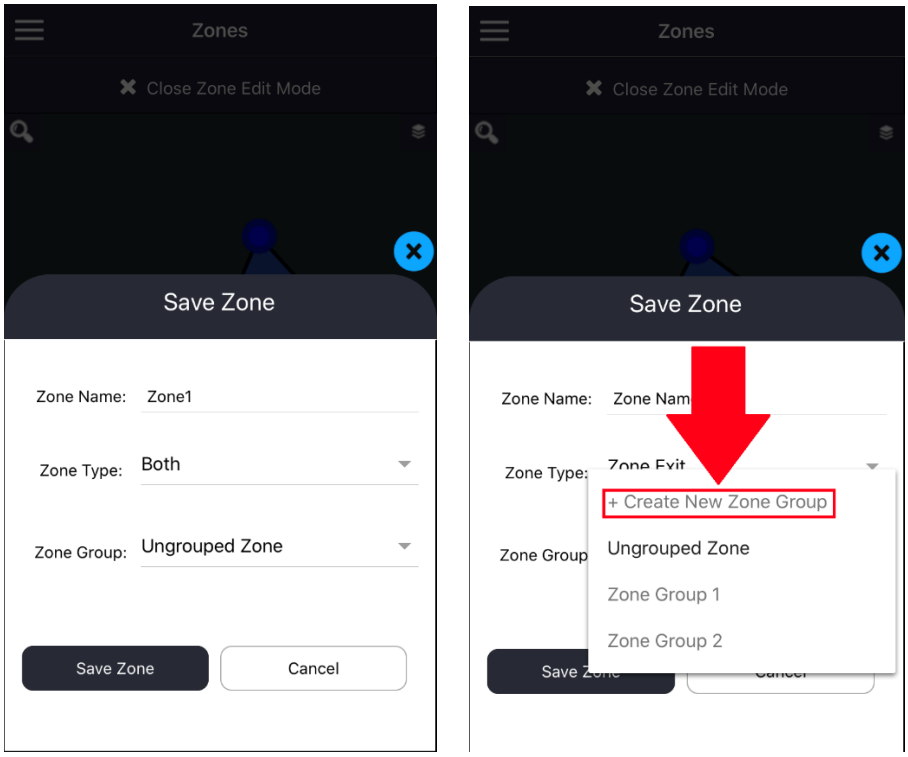




Use the search tool to select an area to draw the custom zone. Tap on the interface to create a custom zone in a specific area of the map. Click **Save Zone** once all points have been set.



Enter a name for the zone and choose which type of zone will be reported. This can be an alert when the device enters a zone, exits a zone, or both. A zone group can be applied to the zone, via the **Zone Group** menu. Select a group from the interface or tap on "**+ Create New Zone Group**" to create a new group.

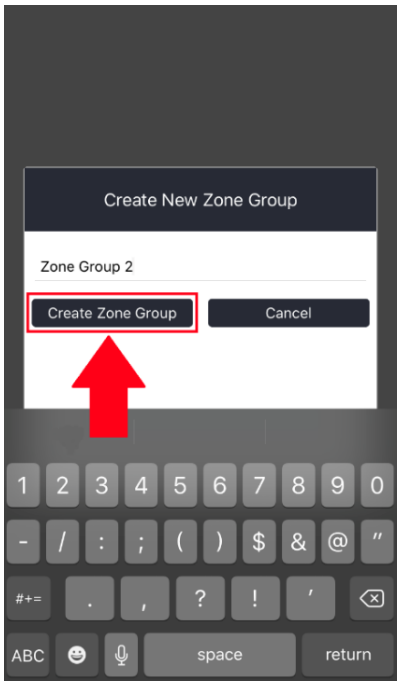


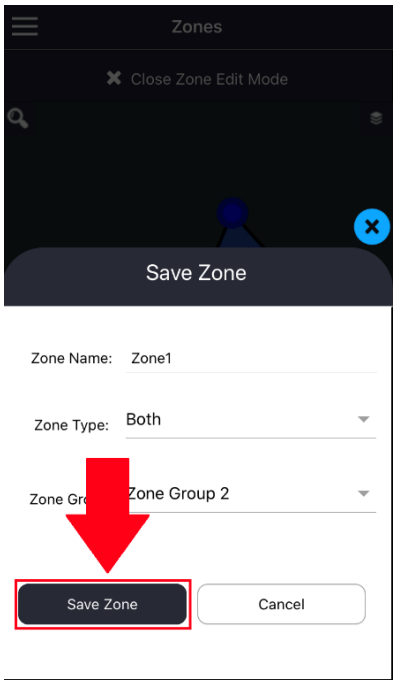
Creating a New Zone Group

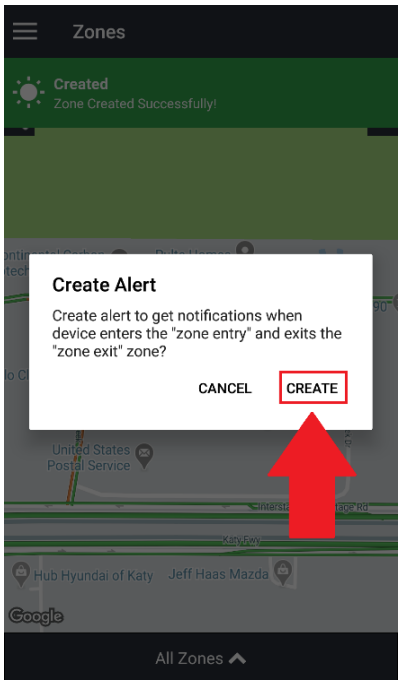
A Zone Group allows multiple zones to be grouped in the interface for a specific device. To create a zone group, tap on the "**+ Create New Zone Group**".

Note: The zone can be ungrouped in the interface, however, if multiple zones need to be applied to a device it is highly recommended to create a zone group.

Enter a name for the zone group and click **Create Zone Group**. The zone group will be applied to the zone, tap on **Save Zone** to save, and apply the custom zone to the device. Tap on "**Create**" to create the zone.



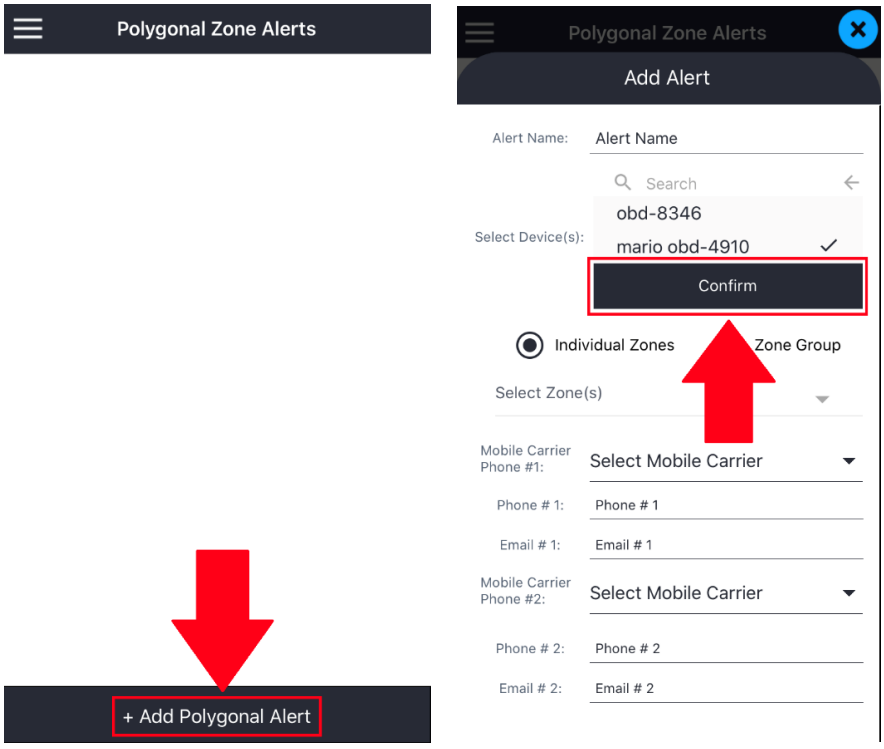




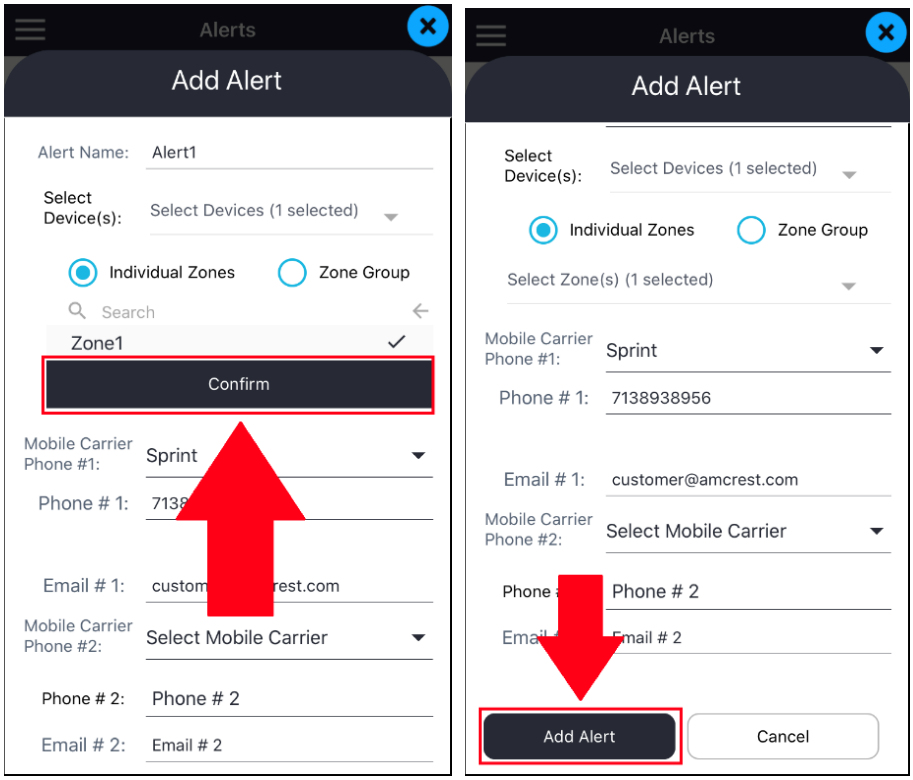
Adding Zone Alerts

Once a zone alert has been created the interface will prompt the user to create an alert. Zone alerts are used to provide push notification alerts to your mobile device if a device enters or exits a custom zone. An email can also be used to receive zone alerts if applicable.

A zone alert can be applied to multiple devices in the interface and can be applied to individual (ungrouped) zones or specific zone groups. To begin creating an alert, tap on "**+Add Polygonal Alert**". Enter a name for the alert in the interface and tap on the **Select Device(s)** drop down menu to select your device. Multiple devices can be applied to a single alert if necessary. Tap **Confirm** for add a device into the Alert setup interface.



Select whether the alert will apply to individual zones or a zone group. Tap on the **Select Zone(s)** drop down menu and select the applicable zone for the alert from the menu and tap **Confirm**.



Enter all necessary information in the alert menu, select the current mobile carrier for your mobile device from the **Mobile Carrier Phone** drop down menu, then enter a phone number in which push notifications will be sent. If applicable, enter a valid email address the in the Email field. Another mobile device can be used as well for the same alert in the #2 fields. Tap **Add Alert** to apply the alert to your device.

Alerts can be created and edited as well in the Alerts menu in the app. To delete an alert, select the alert from the interface and click delete to delete the alert.

Circular Zone Alerts
Circular zone alerts are currently unavailable on iOS. Only polygonal zones can be created on the app.

Polygonal Zone Alerts

Polygonal zone alerts are used to modify or add existing polygonal zone alerts. To add a polygonal alert, tap on **+Add Polygonal Alert** and repeat the steps provided in the *Adding Zone Alerts* portion of the *Zones* section.

Device Settings

This option allows the user to reboot the GPS device, as well as other specific device settings such as the device name, alert email, mobile carrier, alert SMS phone numbers, as well as enable/disable push notifications for specific device attributes and alerts. Press the **Save** button to save device settings.

My Profile

Access and adjust profile settings on your account. Please note, all information in this section can be updated except for the email address. If an email address will need to be updated on the subscription, please contact Amcrest directly to make the proper changes on the account.

Change Password

To change the password the user will need access to have access to the old password. Enter the old password into the interface, enter the new password and confirm the password. Click **Save** to change the password.

FAQ

Q: I tried to activate my GPS tracker with the activation form, but never received my password. What do I do?
A: Contact customer support at amcrestgpssupport@amcrest.com
Q: Why is my device not getting GPS signal?
A: When the GPS tracker is experiencing interference, the GPS light (blue) will begin blinking. This means that no wireless signal is available, and the device is actively searching for a new signal. Please bear in mind that many major cities have GPS dead zones, and GPS signal may not reach underground.
Q: How long does my device's battery last?
A: The battery should last up to 14 days but may deplete faster if more activity is detected.

Q: How do I know when the device is completely charged?
A: To make the device more discreet, the GPS will show not outward indication of battery life except when it is connected to a power supply. You can view current device battery and other metrics on amcrestgps.com under the Map tab.
Q: I just bought an additional Amcrest GPS Tracker. How can I start tracking this device if I already have an amcrestgps.com account?
A: First, activate your GPS Tracker on [insert link]. Create a new asset and build its profile. Next, create a new Hardware device and set its linked asset to the asset profile you've just created.
Q: How do I reset my Amcrest GPS Tracker?
A: To reset your GPS Tracker, press and hold the thumb-sized button on the front of the device until the blue LED light begins to flash. It will automatically reconnect to the network.
Q: Can I change how often my GPS Tracker pushes signal updates to the network?
A: Unfortunately, currently, the Amcrest GPS Tracker only sends updates at 1-minute intervals to maximize the battery life of the device.

Note:
● This user manual is for reference only. Slight differences may be found in the user interface.
● All the designs and software here are subject to change without prior written notice.
● All trademarks and registered trademarks mentioned are the properties of their respective owners.
To find support for your device, please do one of the following:
● Visit http://amcrest.com/contact and use the email form
● Call Amcrest Support using one of the following numbers Toll Free US: (888) 212-7538 International Callers (Outside of US): +1-713-893-8956 USA: 713-893-8956 Canada: 437-888-0177 UK: 203-769-2757
● Email Amcrest Customer Support amcrestgpssupport@amcrest.com