Gladiator Forensics

GATA User's Guide

Front matter

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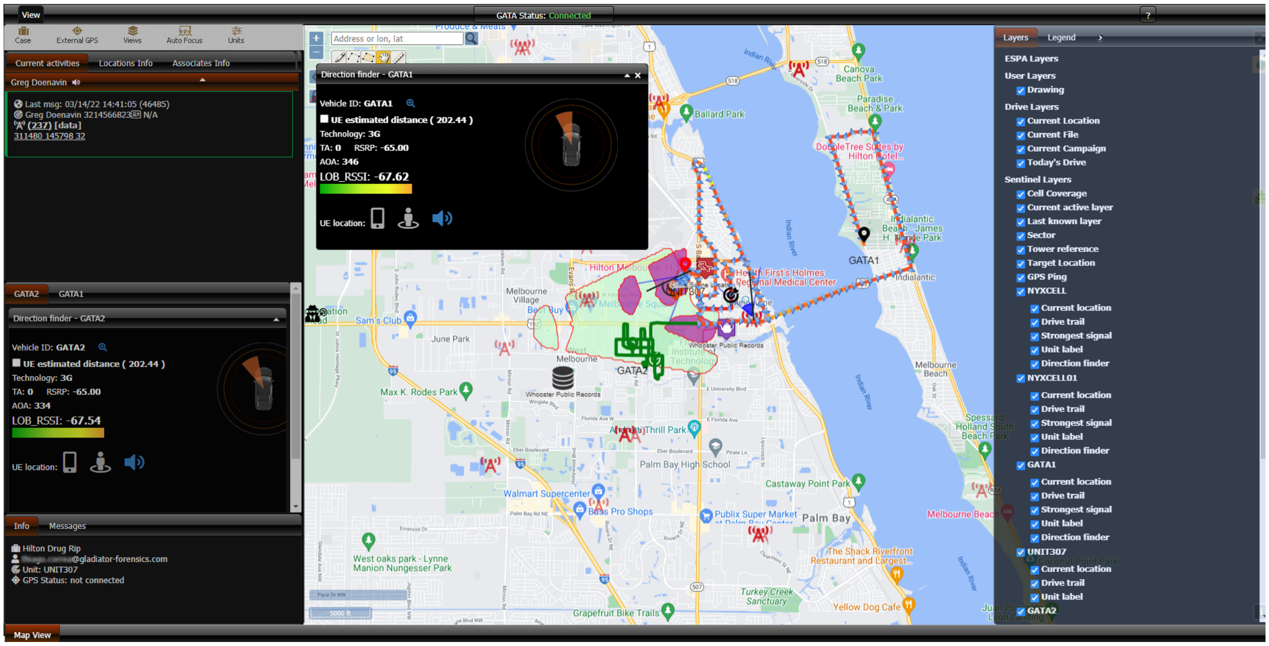
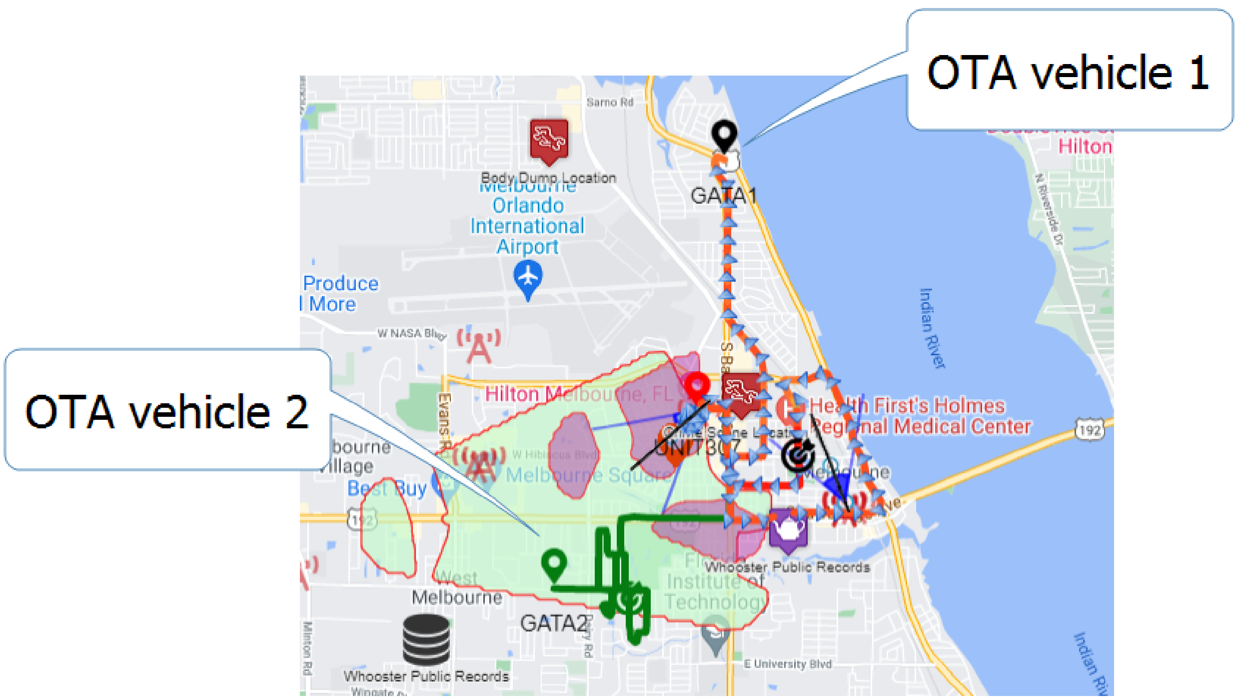
1 About Gladiator Automated Target Acquisition (GATA)

GATA is a solution that integrates with a variety of Over-The-Air (OTA) equipment manufacturers and is designed to integrate real time call and location information from a variety of sources, such as T3, PRTT, GPS pings, GPS tracker, OTA truck location, into one screen while simultaneously configuring the OTA equipment automatically and seamlessly, creating optimal parameters to conduct a real-time tracking mission.

1.1 Key Features

- Provides a true one-screen solution for real-time tracking missions
- Integration of historical analysis, real-time intercept, and GPS data
- Displays OTA silent call response
- Notification when target device is on active voice or data session
- Target number identifier change detection and alert
- OTA GPS breadcrumb trail, target device RSSI, peak power location identification
- Ability to see the communications technology the target is using (2G, 3G, 4G, 5G or Wi-Fi)
- Visualization of neighboring cell sites
- Real time visualization of target phone location (cell site location/sector/azimuth, carrier GPS, handover events, location of OTA equipment, real-time RF survey data)
- Real-time blue force tracking
- Real-time public records search on all calls made or received
- Pattern of life analysis (best day/time for mission, idle times, first/last sectors, frequency by hour)


View
GATA Status: Connected
Case
External GPS
Views
Auto Focus
Units
Current activities
Locations Info
Associates Info
Greg Doenavin
Direction finder - GATA1
Vehicle ID: GATA1
UE estimated distance (202.44)
Technology: 3G
TA: 0 RSRP: -65.00
AOA: 346
LOB_RSSI: -67.62
UE location:
GATA2
GATA1
Direction finder - GATA2
Vehicle ID: GATA2
UE estimated distance (202.44)
Technology: 3G
TA: 0 RSRP: -65.00
AOA: 334
LOB_RSSI: -67.54
UE location:
Info
Messages
Hilton Drug Rip
Unit: UNIT307
GPS Status: not connected
Map View
Layers
Legend
ESPA Layers
User Layers
Drawing
Drive Layers
Current Location
Current File
Current Campaign
Today's Drive
Sentinel Layers
Cell Coverage
Current active layer
Last known layer
Sector
Tower reference
Target Location
GPS Ping
NYXCELL
Current location
Drive trail
Strongest signal
Unit label
Direction finder
NYXCELL01
GATA1
UNIT307
GATA2


OTA vehicle 1
OTA vehicle 2
Body Dump Location
Orlando
International
Airport
Produce
GATA1
Hilton
Hilton Melbourne, FL
Health First's Holmes
Regional Medical Center
UNIT307
Melbourne Square
Whooster Public Records
West
Melbourne
GATA2
Indian River
E University Blvd

1.2 Key Benefits

- GATA is the only Over-The-Air (OTA) enhancement, designed to work with multiple OTA products, which is purpose built to monitor live data and configure the OTA equipment to the best parameters to locate the device
- GATA is designed to identify the new 5G Subscription Concealed Identifier (SUCI) and automatically update the OTA equipment configuration when a new one is generated

2 Using GATA

This book describes how to use GATA for real-time tracking. It explains how to synchronize with OSS-ESPA so that you receive the active and historical trails, and the active calls for your case of interest. It then describes how to use the map features to locate a device.

If you are using a GAR or GATA unit, then your location is automatically sent to OSS-ESPA. However if you are not using a GAR or GATA unit and want to let OSS-ESPA know your location then this book explains how to do that via an external GPS device.

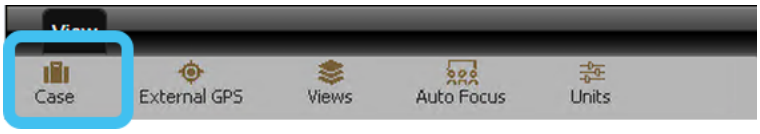
2.1 Monitoring movement on the Map View

This topic describes how to use the **Map View** to monitor the ongoing communications and movement of a target device. Prior to monitoring a target device you must have created a case in OSS-ESPA.

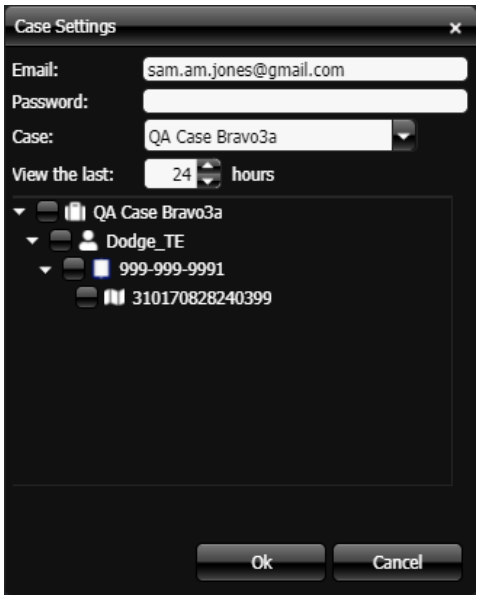
1. On the **Map View**, click  on the left of the map.

   The **GATA** panel opens.

2. Click  .

   The **Case Settings** dialog box opens.

3. On the **Case settings** dialog box:

    a. If this is the first time you have signed in, or another user is currently signed in, then in **Email** and **Password** you must enter your OSS-ESPA account details, then click **OK**.

    b. The software is reloaded and on returning to this dialog box your cases are automatically listed in **Cases**.

    c. In **Case**, select the case you want to monitor. You can either select your case from the drop-down list or start typing the case name to display it.

    d. In **View the last**, enter the time period over which you want to view the active and historical trails, and the active calls.

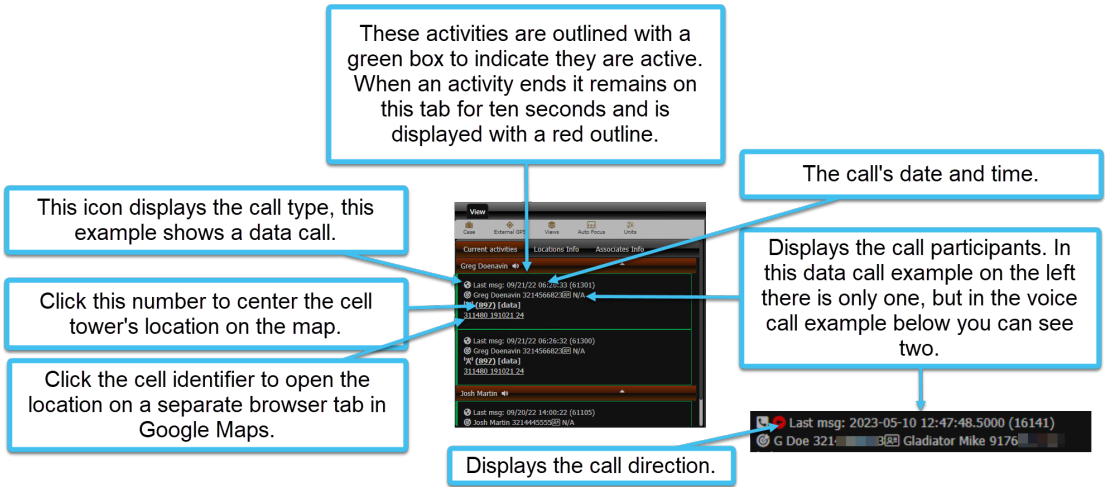
    e. In the list of people and phones, ensure all the CASEIDs (LIIDs) (lawful interception identifiers) you want to monitor are selected.

    f. Click **OK**.

    The software is reloaded and synchronizes the case data with OSS-ESPA.

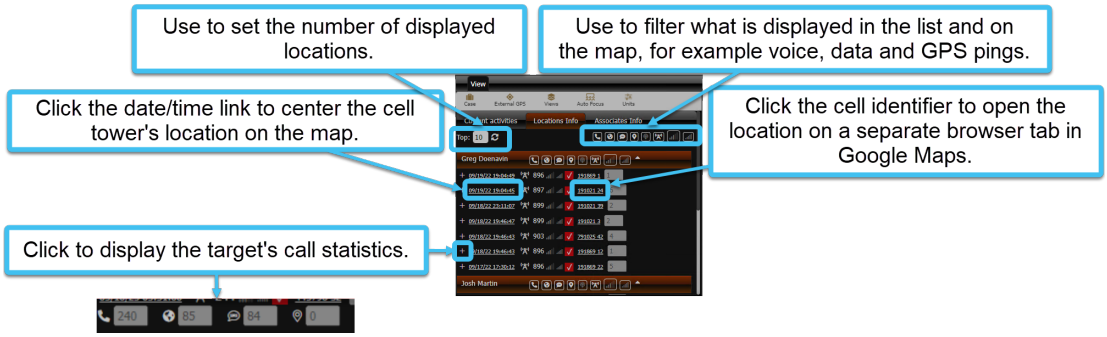
4. The map now displays active and historical trails, and active calls for the time period you selected. You can now monitor the movements of the target device on the map as new communications arrive, and view the field unit trails of yourself and your colleagues.

    - All active calls are listed on the **Current activities** tab. Typically these activities are outlined with a green box to indicate they are active. When an activity ends it remains on this tab for ten seconds and is displayed with a red outline. You can click the tower reference number to center the cell tower's location on the map. To investigate the location further you can click the cell identifier to open the location on a separate browser tab in Google Maps.

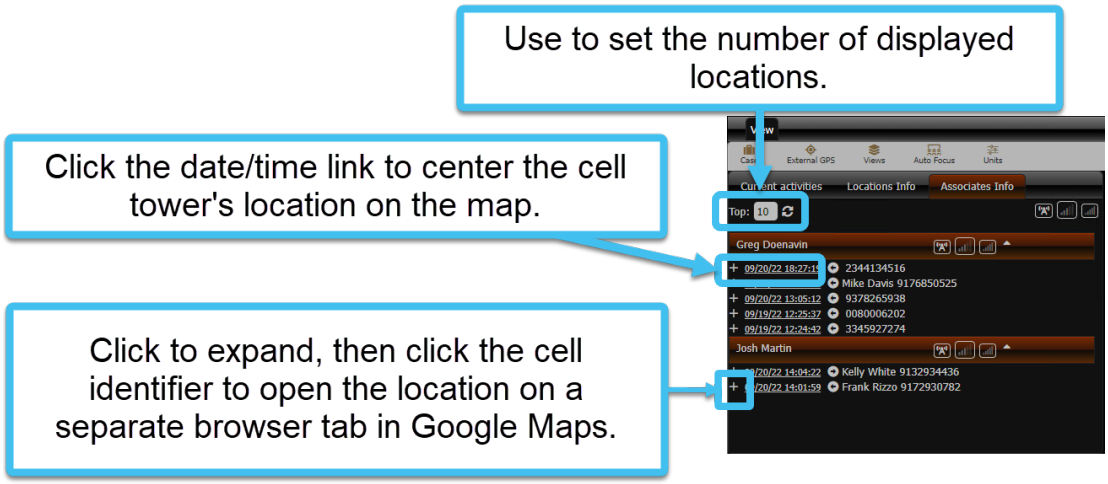


- The ten last known associates and locations are listed on the **Associates Info** and **Locations Info** tabs. You can click the date/time link to center the cell tower's location on the map. To investigate the location further you can click the cell identifier to open the location on a separate browser tab in Google Maps. You can use the icons on these tabs to filter what is displayed. For example, you can display all used sectors, GPS ping locations and cell coverage on the map

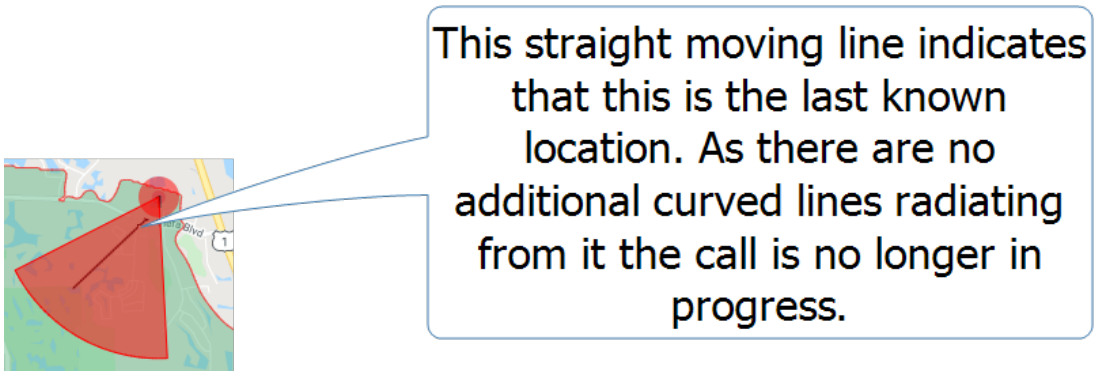
Locations Info tab:



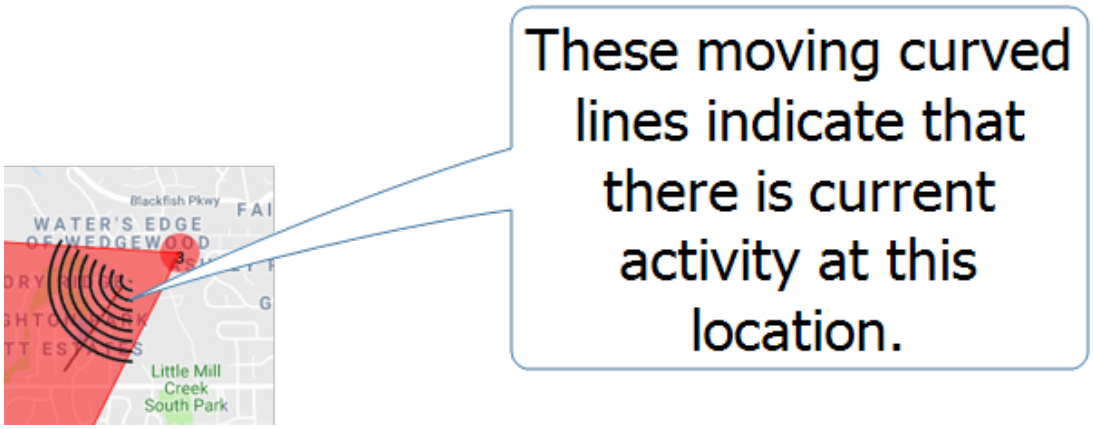
Associates Info tab:



- The person's last known call location is marked with a moving straight line. If the most recent location is a sector with no azimuth defined then this straight line is displayed moving over 360 degrees. The last known GPS ping location is displayed as a circle with radiating lines above and below.



- The person's current activities are marked with moving curved lines. If the current activity locations is a sector with no azimuth defined then these curved lines are displayed over 360 degrees.



Current activities are defined as:

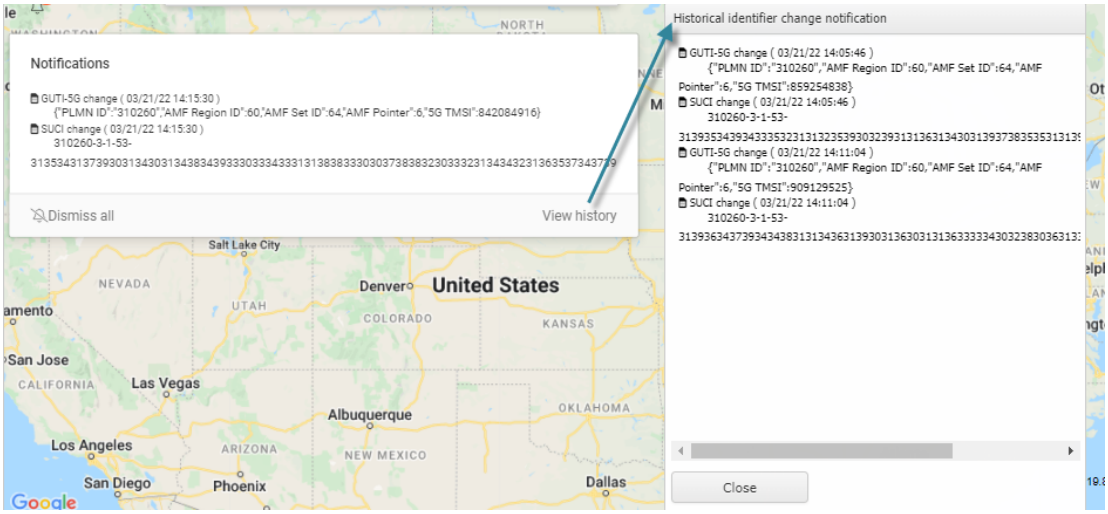
  - a call or data session in progress. Note, that the map displays all the sectors that have been used during the call, not just the call's latest sector. The sector that is currently being used is displayed with moving curved lines, whereas the previous sectors show no moving curved lines.
  - an SMS that occurred in the previous 60 seconds.
  - GPS pings that occurred in the previous 60 seconds.

- A  notification appears automatically if there is any change to a device's subscriber information (IMSI, MSISDN, SUPI-IMSI, GPSI-MSISDN, SUCI, GUTI-5G) and the device information (IMEI, IMEISV, PEI-IMEI, PEI-IMEISV). This type of alert notifies you of pertinent changes related to the target device which may require you to reconfigure other mission equipment in order to accomplish your mission.

  The subscriber information can change when the target changes the SIM card or any temporary identifier related to the SIM card managed by the operator. The most current IMSI, GUTI or SUCI (5G) number is required if you want to locate the phone with cell tracking equipment.

  The device information is related to the phone model or device in use with the subscriber identifier, and is required to configure the cell tracking equipment with regards to the device's supported technologies and limitations.

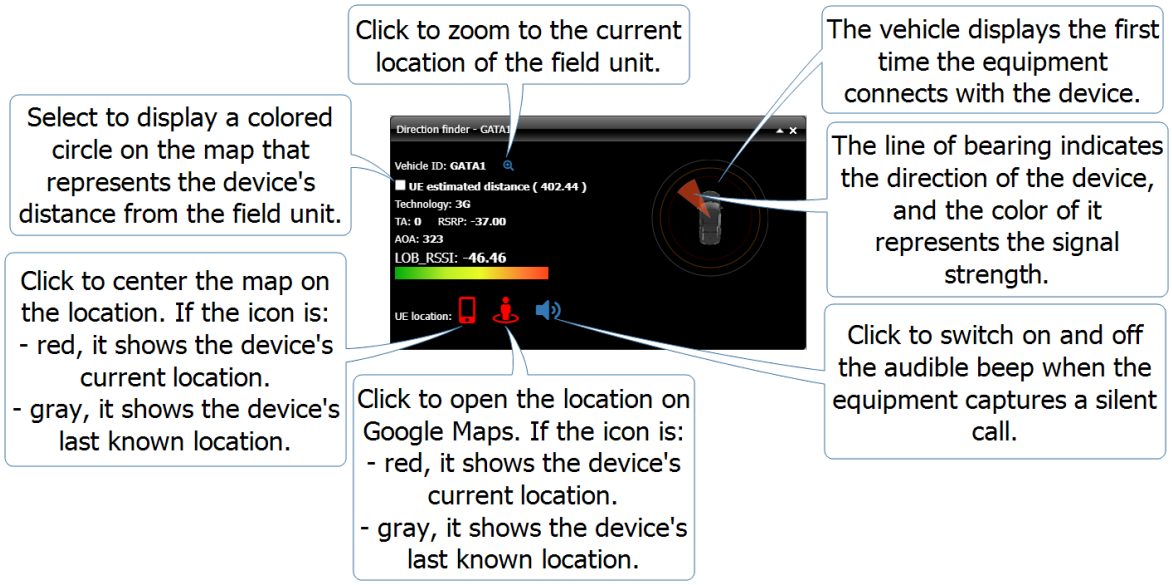
  When you click the notification, it opens the **Notifications** pop-up which displays the most recent changes. Click **View history** if you want to view any previous changes. Click **Dismiss all** to remove the alert notification from the screen and to also clear the historical alarms.



5. If you have field units with GATA equipment installed then you can also use them to help locate a device using the **Direction finder** pop-up. For the GATA field units that are currently active, a **Direction finder** pop-up is either displayed in the field unit's tab or as a floating window.

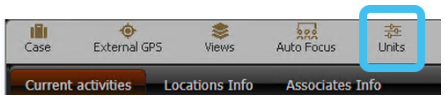
   If the **Direction finder** pop-up does not display then click Views. On the **GATA Views** dialog box, ensure that in **GATA** , **Direction finder** is selected.

   The following graphic explains how to use the **Direction finder** pop-up to help locate a device.



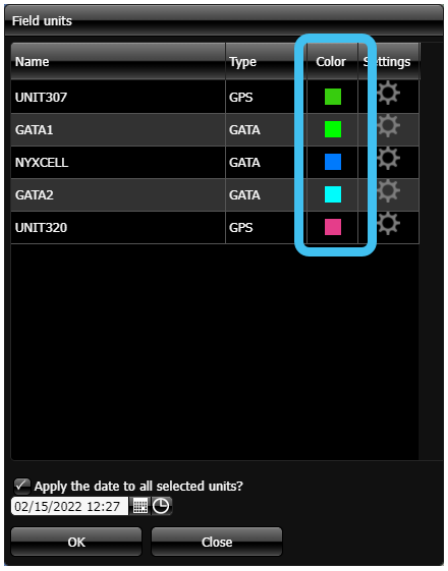
6. If required you can change how the field units appear on the map, such as displaying the route's signal color and the appearance of the **Direction finder** pop-up. Any changes you make to a field unit's settings will also change for all GATA and OSS-ESPA users, and in all cases. To change a field unit's appearance:

   a. Click Units.

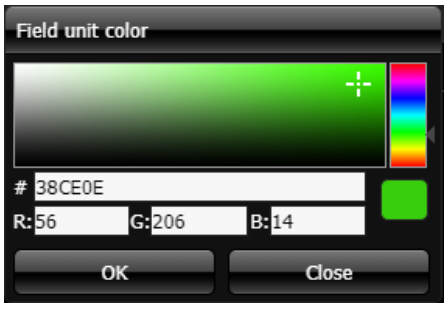
   

   The **Field units** dialog box opens.

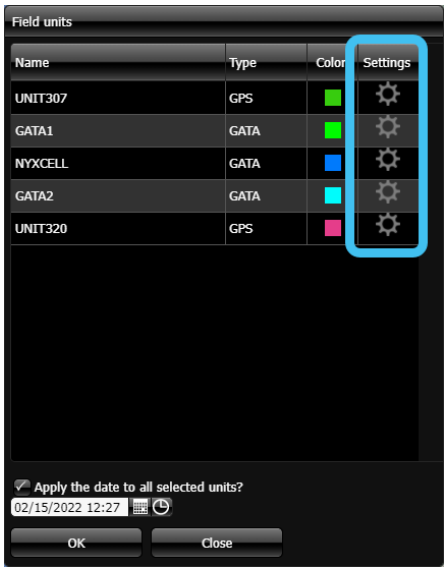
   b. If you want to set the color the field unit's marker and trails are displayed in, click the color icon.

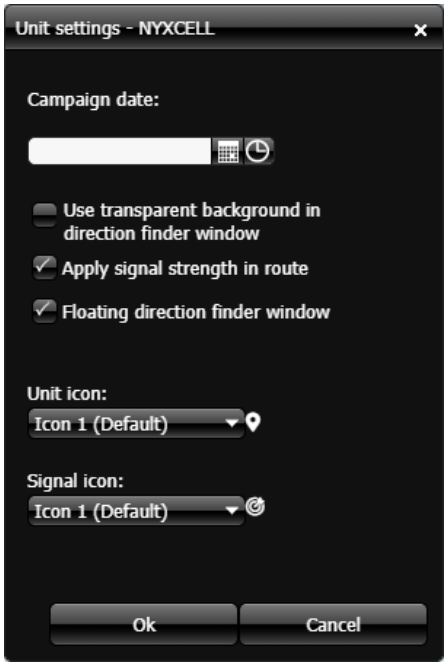
   The **Field unit color** dialog opens, select a new color then click **OK**.

   c. If you want to configure any other settings associated with a field unit, such as using a transparent background in the direction finder window, using a floating direction finder window, displaying the signal strength in the bread crumb trail and the appearance of the unit and signal icons, then click .



The **Unit settings** dialog box opens. Configure the settings as required then click **OK**. For further information on the settings refer to **Unit settings dialog box on page 44**.



d. Click **OK** to close the **Field units** dialog box.

2.1.1 Setting the map location and scale

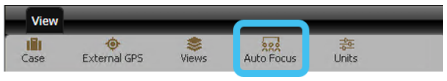
You may want the map location and zoom to remain the same as you have them currently displayed on the map. This can be useful for a number of reasons, for example: you may wish to monitor movements around a specific location, or it may give you a better overall view of the location of a new event when it occurs rather than it zooming in closely to the event which may make it difficult for you to at first determine the new location relative to the previous one. To do this, set the map to your preferred location and zoom setting then click  .

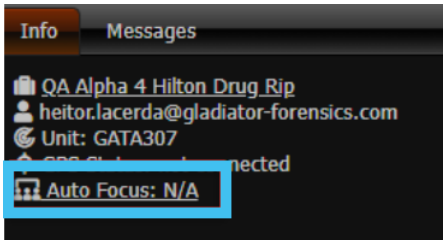
2.1.2 Using auto focus in GATA

Auto focus allows you to set whether or not the map automatically centers a new event on the map when it arrives.

To enable and disable auto focus:

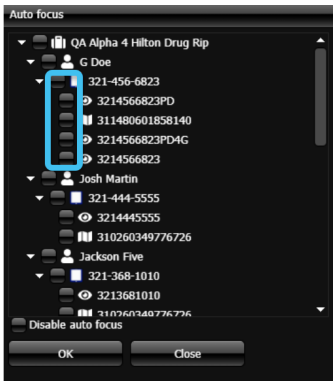
1. Either:
   - On the **GATA** panel click 

, or


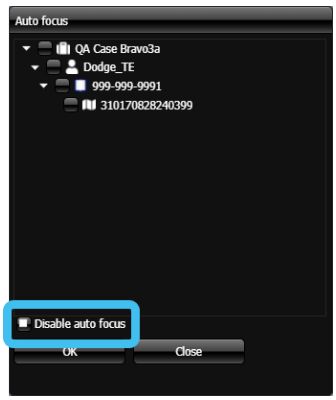
   - On the **Info** tab, at the bottom-left of the screen click **Auto focus**.


   The **Auto focus dialog box on page 34** opens.
2. The **Auto focus** dialog box allows you to both enable and disable auto focus.
   - To auto focus on a target, select the target you want to auto focus on.

     NOTE: To auto focus on a specific phone or CASEID (LIID) , the phone number or CASEID (LIID) itself must be selected on the **Case Settings dialog box on page 37**.

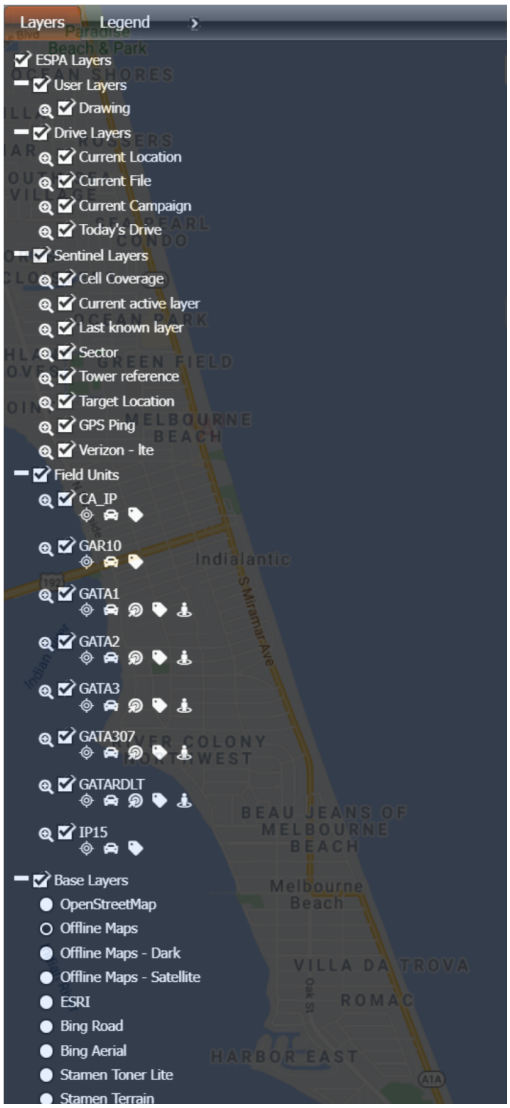


- To disable auto focus, select **Disable auto focus**.



2.1.3 Using the GATA Layers panel

The **Layers** tab, on the right of the screen, allows you to select what information to display in the map.

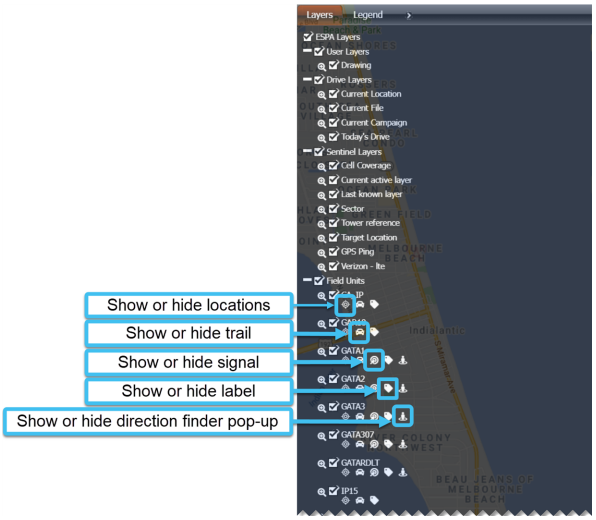


How to show and hide the field unit layers

For each field unit you can select to show and hide the field unit's:

- locations
- trail
- label
- signal
- direction finder pop-up

1. Use the **Field units** menu to select the layers you want displayed for each field unit.

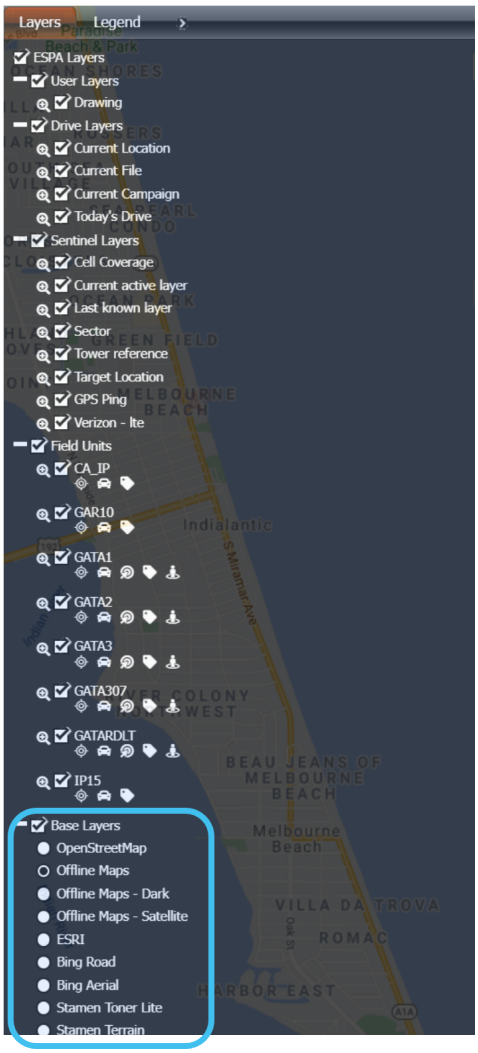


How to change the base layer

Changing the base layer changes which map type is displayed.

NOTE: Offline maps do not require internet connectivity as they load directly from your computer. For further information refer to **Downloading offline map regions on page 22**.

1. Use the **Base Layers** menu at the bottom of the tab to change the displayed map.



2.1.4 Measuring distance

You may want to measure the distance between different locations, for example if you believe a person is heading for a particular location measuring the distance between their current location and their destination could give you an approximate time for their arrival.

With your map displaying the points you want to measure between:

1. Click  at the top-left of the map to ensure the map is in the measure distance mode. This icon is displayed in orange  when you are in the measure distance mode.
2. Left-click on the map to start measuring your distance. You can left-click to create another point on your distance measurement or double left-click to complete your distance measurement.

   The distance is displayed in miles.

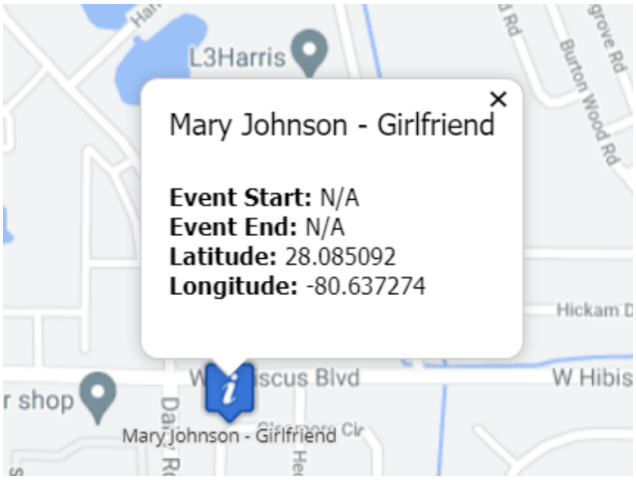
   Once you've completed your measurement right-click the map to return to the normal map mode which is indicated by the hand icon returning to orange  .

2.1.5 Viewing locations of interest

Locations of interest, that have been added to the case, are marked on the map with icons as shown below.

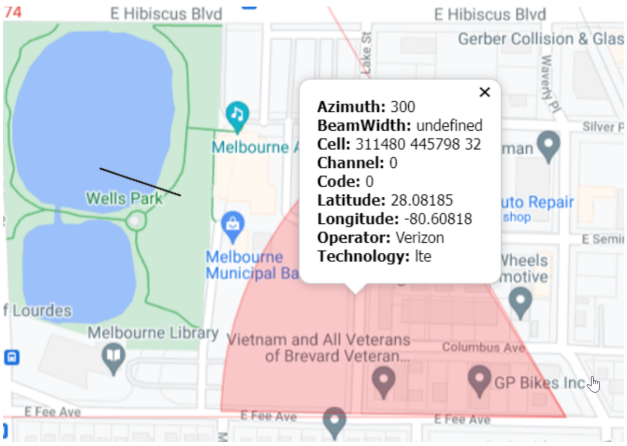
Icon	Type
	Crime Scene
	Residence
	Frequented Area
	Meeting Area
	Other

Click on an icon on the map to display details about the location such as its name, latitude/longitude and event start/end times.



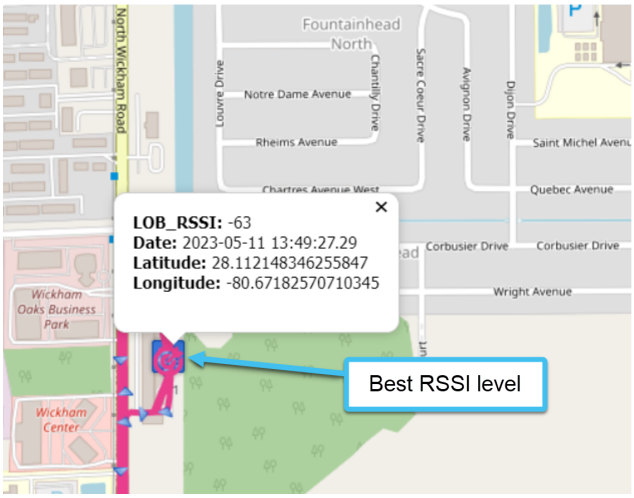
2.1.6 Viewing sector properties

Click on a sector to display the sector properties such as the technology, azimuth and beamwidth.



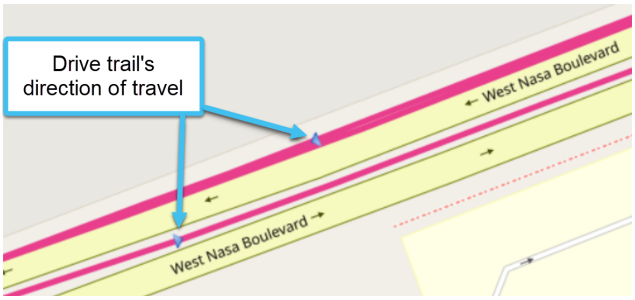
2.1.7 Viewing the best RSSI details

The best RSSI level is displayed on the map with a . Click on it to display details of the RSSI such as the level, time it occurred and latitude/longitude.



2.1.8 Viewing the drive trail's direction of travel

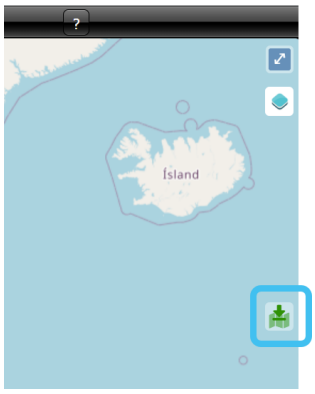
The drive trail's direction of travel is marked on the map with arrows.



2.1.9 Downloading offline map regions

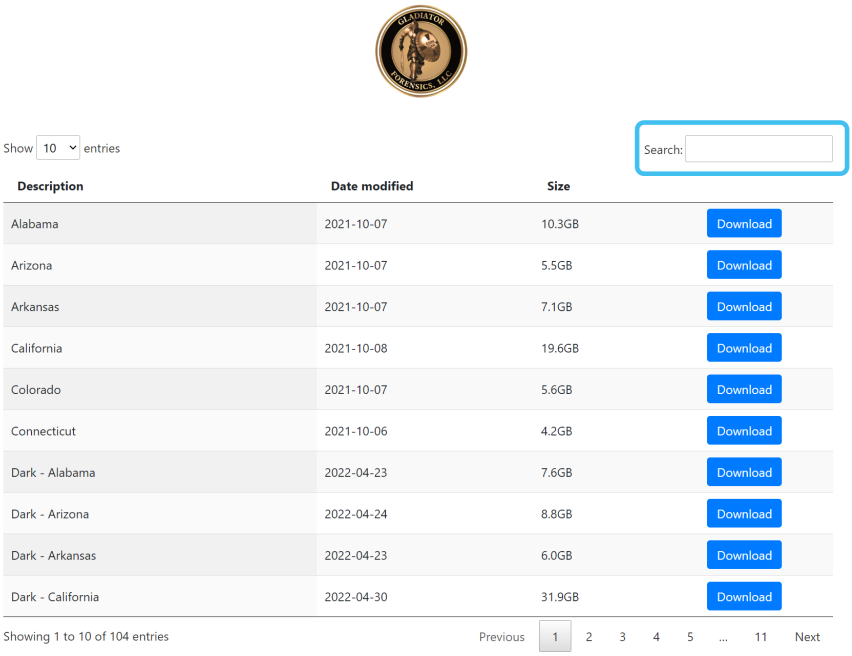
If you prefer to use offline maps, for example if you know you are going to be in an area with no internet access, then you can download maps to your computer before you start your mission.

1. Click  on the right hand side of the screen.

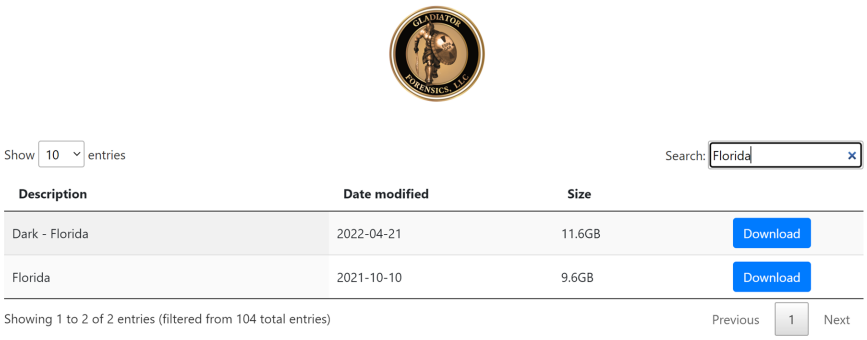


A new **OSS Maps** browser tab opens.

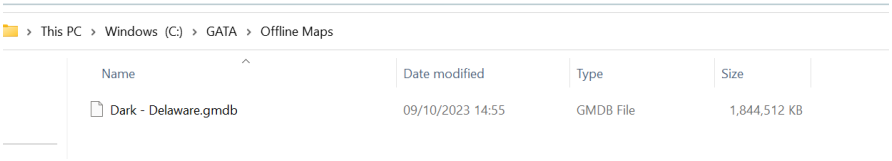
2. Use **Search** to locate the region you want to download.



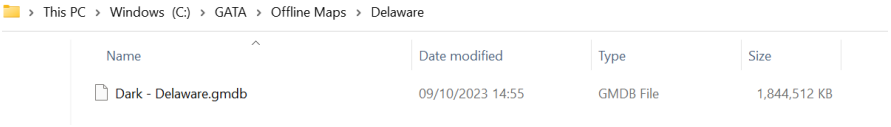
3. You can select your preference between either a standard or dark map for the region. If you prefer, you can also download both as you can select which to use in step 5.



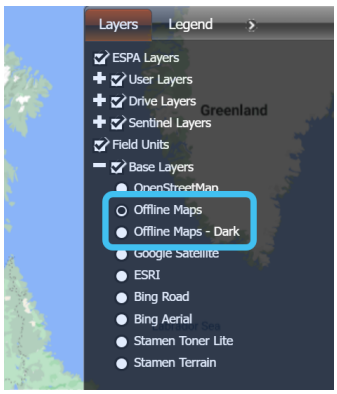
4. Once downloaded, move the .gmbd file to `C:\GATA\Offline Maps`.



Alternatively, if you prefer to have each region's download in a separate folder you can also use `C:\GATA\Offline Maps\<region name>`.



5. To use the offline maps, on the **Layers** panel, select your preference either **Offline Maps** or **Offline Maps - Dark**.



NOTE: If you have selected to use offline maps and you do not have the required download but you are connected to the internet then internet maps are used automatically.

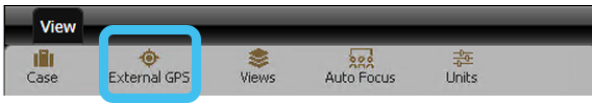
2.2 Using an external GPS device

This topic describes how to use an external GPS device to provide GATA with your location so that your movements can be monitored if you are not using a GAR or OTA unit. For an overview of the external GPS tracking feature refer to the **Read GPS from external device dialog box on page 43**.

1. On the **Map View**, click  on the left of the map.

   The **GATA** panel opens.

2. Click 
.

   The **Read GPS from external device dialog box on page 43** opens.

3. If prompted, allow access to your location.

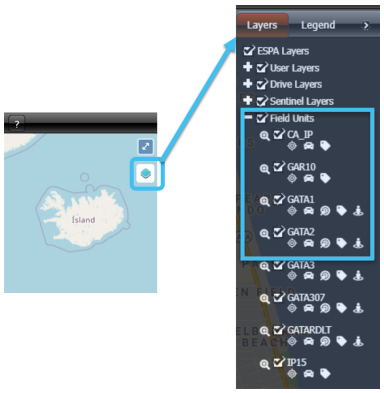
4. In **COM Port**, select the USB port your GPS device is connected to.

5. Click **Start**.

   Your location is now identified on the map with a marker, this information is updated every second.

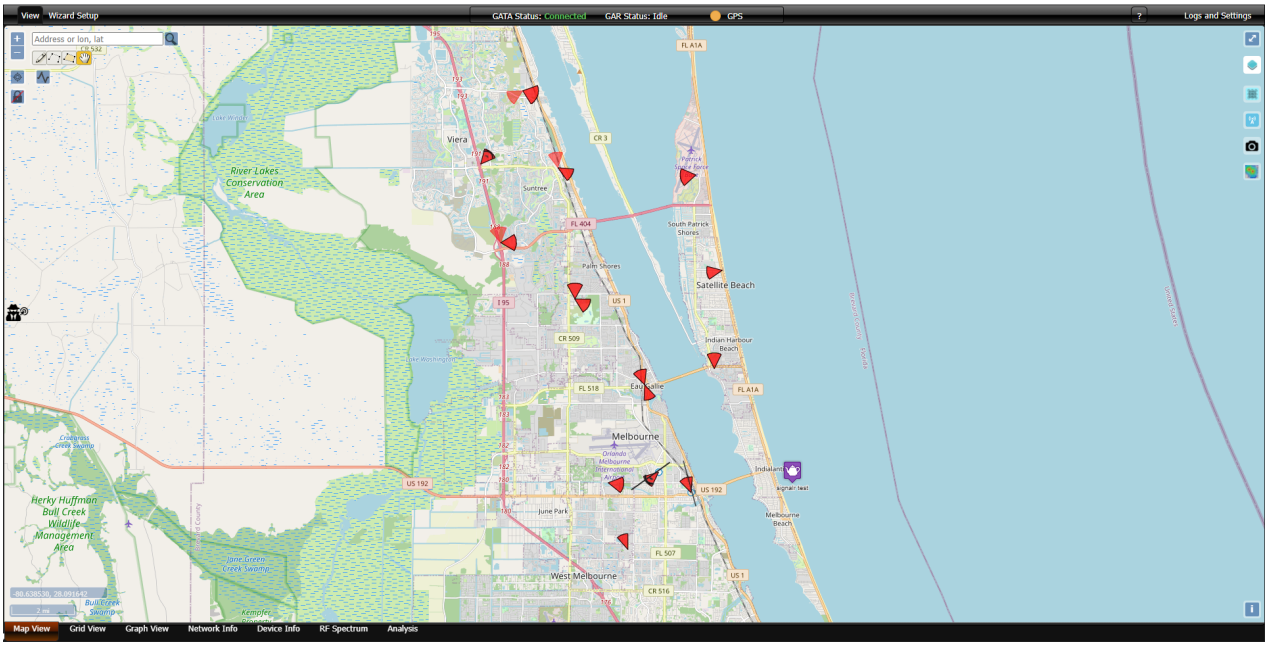
   > **NOTE**: If this is the first time you have set up this unit then you must ensure that it is configured on OSS-ESPA's Sentinel screen to display in the correct cases. For further information refer to "How to display GPS Tracker and field units on the Sentinel screen" in the OSS-ESPA Help.

6. If you want to view the movements of other devices, you can select them from the **Layers** panel. Click  at the right-side of the map to open the panel, then expand **Field units** and select the devices you want to display.



3 Software description

On the **Map** screen, the GATA user interface displays case data that is useful when you are conducting a real-time tracking mission.



You can rotate the map so that the top is oriented to a direction other than north.

- **Touchscreen**: touch an area with two fingers and drag both fingers in a circular motion.
- **Laptop**: press Shift and drag the cursor.

To reorient the map back to north, click  .

Additional tools and options are available to control the **Map** screen and access other features.

Icon	Option	Description
	Search	Allows you to search for a location on the map by street address or longitude/latitude coordinates. To search by coordinates, enter the longitude before the latitude.
	Map lock	Allows you to lock the map if you prefer to view a specific map location.
	Full screen	Allows you to expand the map windows to fill the screen. This option is only available on certain browsers.
	Center	Allows you to refocus the map to set your field unit's current location as the center of the map.

Icon	Option	Description
	Zoom	Allows you to narrow or expand the focus of the **Map** screen.
	Layers and Legend	Allows you to select what data is displayed on the **Map** screen. For example: **Current location**: the data from the current collection **Sentinel layers**: this allows you to select which case data received from OSS-ESPA's Sentinel solution is displayed. **Offline maps**: these are useful to display if you have no internet connection. **Field units**: Each active field unit allows you to select which of its attributes are displayed, for example the **Direction finder pop-up on page 38** and the unit's name.
	Drawing tools	Allows you to draw shapes on the map to conduct analyses on data collected on locations within. Drawn polygons must be saved using the context menu before they can be used.
	Download maps	Click to download offline maps for using with GATA.
	Notifications	This appears automatically if there is any change to a device's subscriber information (IMSI, MSISDN, SUPI-IMSI, GPSI-MSISDN, SUCI, GUTI-5G) and the device information (IMEI, IMEISV, PEI-IMEI, PEI-IMEISV). This type of alert notifies you of pertinent changes related to the target device which may require you to reconfigure other mission equipment in order to accomplish your mission.
	GATA panel	Allows you to open the GATA panel used in real-time tracking.

3.1 Status

- **Connected**

  GATA is connected to the internet and transmitting and receiving data with OSS-ESPA.

- **Reconnecting**

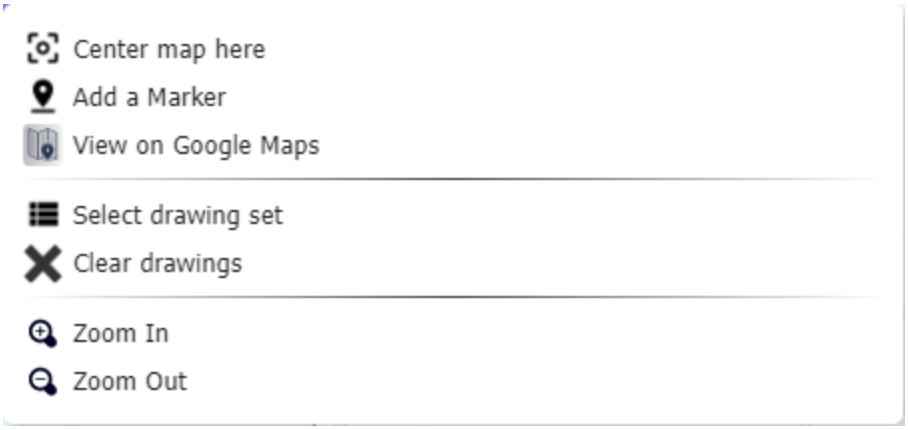
  GATA is attempting to reconnect to the internet and is currently unable to transmit and receive data with OSS-ESPA.

- **Disconnected**

  GATA is disconnected from internet and is currently unable to transmit and receive data with OSS-ESPA.

3.2 Context menu

You can use a context menu on the **Map** screen to do the following:



- Center the map on a location
- **Add a Marker** to a location
- View the location on Google Maps. This is useful as it provides you with a visual display of the landscape.
- Edit and save polygons you have created using the drawing tools
- **Zoom in** and **Zoom out**
- Modify the opacity and radius of a Sector, or all Sectors in a layer

To open the context menu using a laptop, right-click the location on the map.

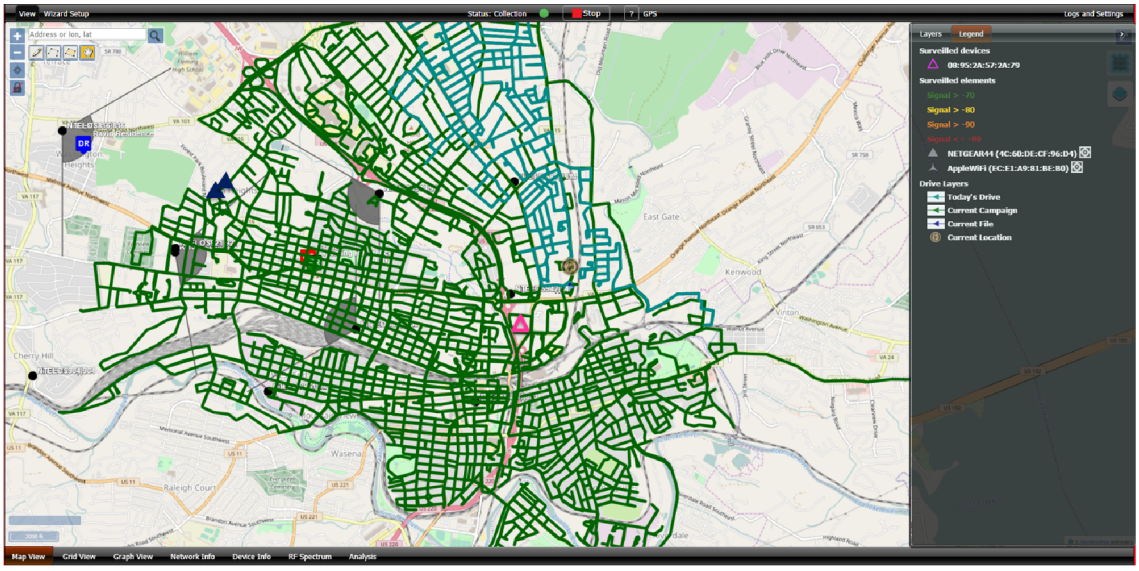
To open the context menu using a touchscreen device, tap and hold down on the location on the map until the context menu opens.

3.3 Layers and Legend panel

The **Layers and Legend** panel is opened by clicking on the map.

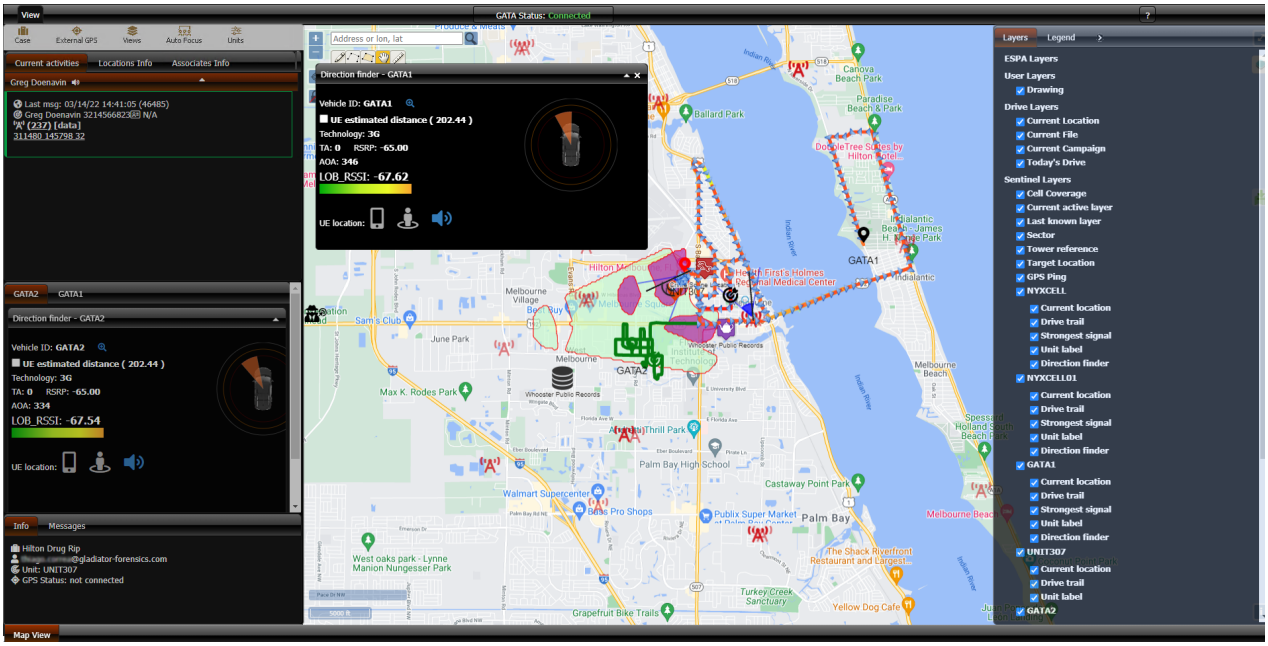
On the **Layers** tab you can select what information to display in the map, and the **Legend** tab indicates the attributes displayed in the map. Check-boxes allow you to select what you want displayed, and the allows you to zoom into the item.

For further information refer to **Using the GATA Layers panel on page 16**.



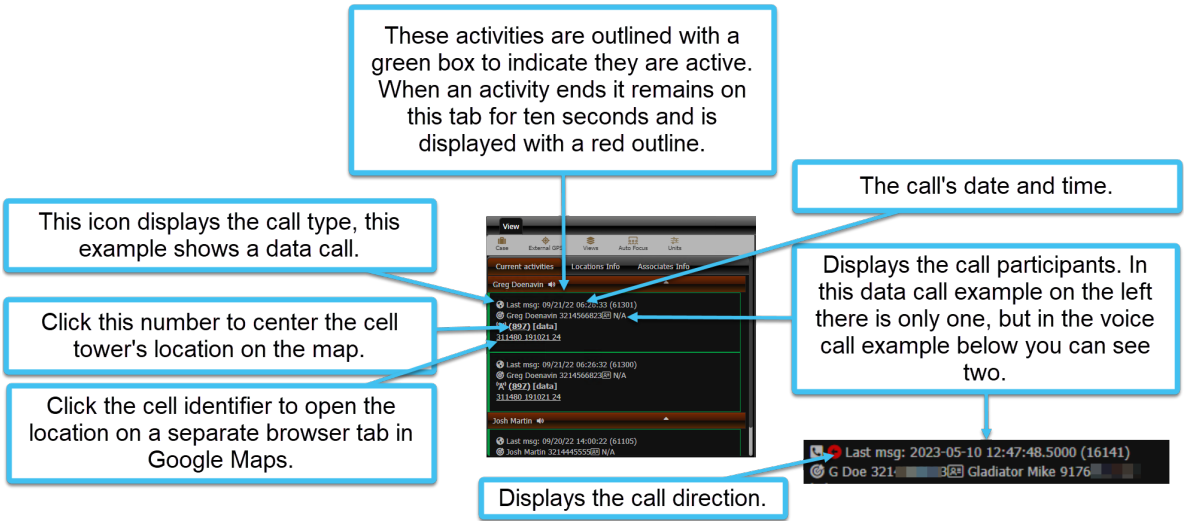
3.4 GATA panel

The map view's GATA (Gladiator Automated Target Acquisition) panel is opened by clicking  on the left of the map.



The GATA panel consists of a **Current activities** tab, **Locations Info** tab, **Associates Info** tab and individual field unit tabs for all the selected case's active GATA field units. There are also buttons that allow you to configure your GATA view.

- **Current activities**: displays the details of any current communication activities. Typically these activities are outlined with a green box to indicate they are active. When an activity ends it remains on this tab for ten seconds and is displayed with a red outline. You can click the tower reference number to center the cell tower's location on the map. To investigate the location further you can click the cell identifier to open the location on a separate browser tab in Google Maps.

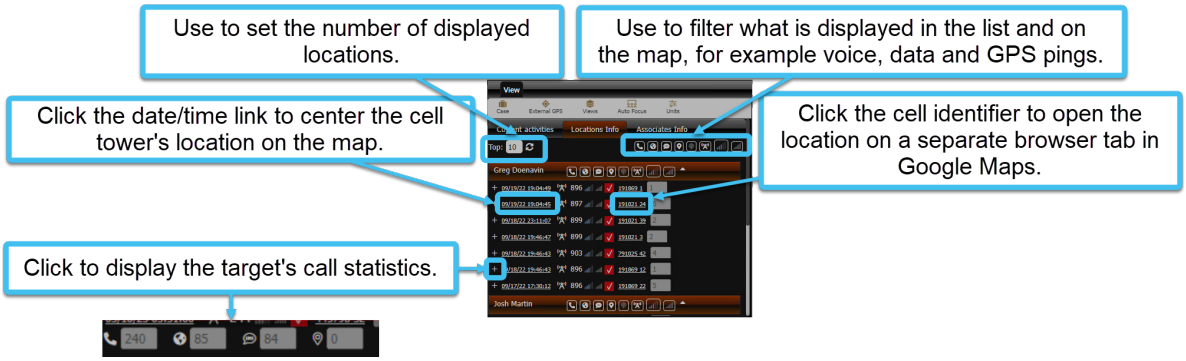


- **Locations Info**: displays by default the details of the last ten locations for communications. You can change the number of locations from the default of ten using **Top** and clicking the refresh icon.

  You can click the date/time link to center the cell tower's location on the map. To investigate the location further you can click the cell identifier to open the location on a separate browser tab in Google Maps.

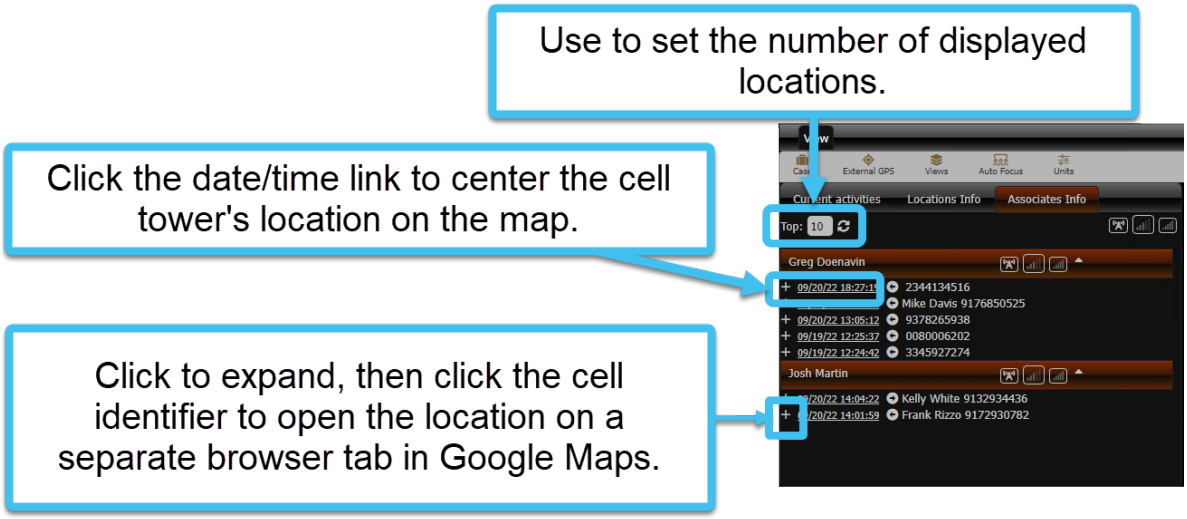
  Click **+** to display the target's call statistics. You can use the icons to filter what is displayed in the list and on map. You can filter on voice and VoIP calls, data calls, SMS and MMS calls, GPS pings, GPS buffer, tower, cell coverage and the dominant cell coverage.

  The icons at the top of the tab apply to all persons listed on the tab but you can also use the icons alongside each person's name. For the map details you can also click the icons listed for each location to display or hide them from the map.



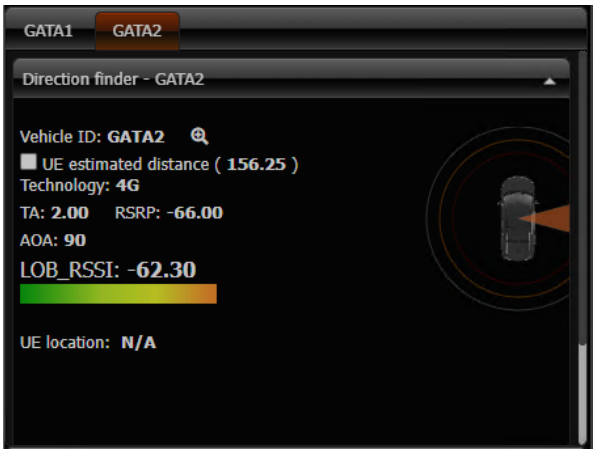
- **Associates Info**: displays by default the details of the last ten associates the target last communicated with, and the target's location during that communication. You can change the number of associates from the default of ten using **Top** and clicking the refresh icon.

  You can click the date/time link to center the cell tower's location on the map. To investigate the location further you can click the cell identifier to open the location on a separate browser tab in Google Maps. The arrow alongside the associate's name indicates if the call was incoming or outgoing.



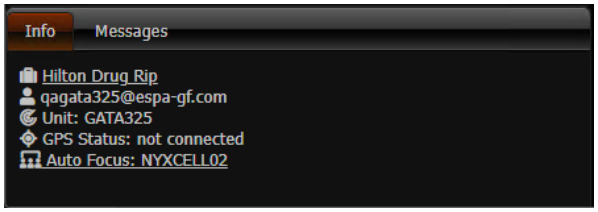
- **Field unit**: for each GATA field unit that is active a tab is displayed. It displays information gathered from the GATA field units which can help you find devices of interest. Each field unit tab is named using the field unit's name. Currently the only field unit feature implemented is the **Direction finder pop-up on page 38**.

  You can minimize this tab by clicking at the top-right of the tab.

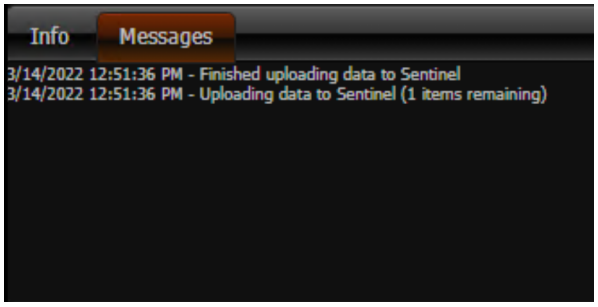


- **Info**: displays the case name that you are viewing and the name of the user that you are logged in as, both of which are set on the **Case Settings dialog box on page 37**. It also displays your field unit name and your GPS status.

  If the case has map data exported from the OSS-ESPA's Analysis center then a link is provided which opens the **Case data - Exported from Analysis Center dialog box on page 35** which allows you to view the available map exports and select any that you would like to display on the GATA map.



- **Messages**: displays information regarding the status of uploading data to Sentinel.



- **Case**: click to open the **Case Settings dialog box on page 37** which allows you to sign into your OSS-ESPA account and select which of your intercepts you want to view.
- **External GPS**: click to open the **Read GPS from external device dialog box on page 43** which allows you to give GATA access to your current location when you do not have a GAR unit or an Over-The-Air unit.
- **Views**: click to open the **GATA Views dialog box on page 42** which allows you to define which views you want displayed on the GATA field unit tabs.
- **Auto focus**: click to open the **Auto focus dialog box on page 34** which allows you to set whether or not the map automatically centers a new event on the map when it arrives.
- **Units**: click to open the **Field units dialog box on page 41** which allows you to open the **Field unit color dialog box on page 40** and the **Unit settings dialog box on page 44** which allow you to select how the field units and their data are displayed on your map.

3.4.1 Auto focus dialog box

The **Auto focus** dialog box is opened by clicking 

on the **GATA panel on page 30**. It allows you to set whether or not the map automatically centers a new event on the map when it arrives. The people, phones and CASEIDs (LIIDs) that are displayed are for the case you selected on the **Case Settings dialog box on page 37**. You can also set to center the map on a field unit each time it moves. The field units listed are either GAR and GATA units, Bluetooth GPS Cradlepoint units, and Over-The-Air units that have been selected on OSS-ESPA's **Sentinel** screen by the monitor for your case; that is the case you currently have selected on the **Case Settings dialog box on page 37**. Your selection is also retained for use at a later date when you reopen the case.

> **NOTE**: To auto focus on a specific phone or CASEID (LIID) , the phone number or CASEID (LIID) itself must be selected on the **Case Settings dialog box on page 37**.

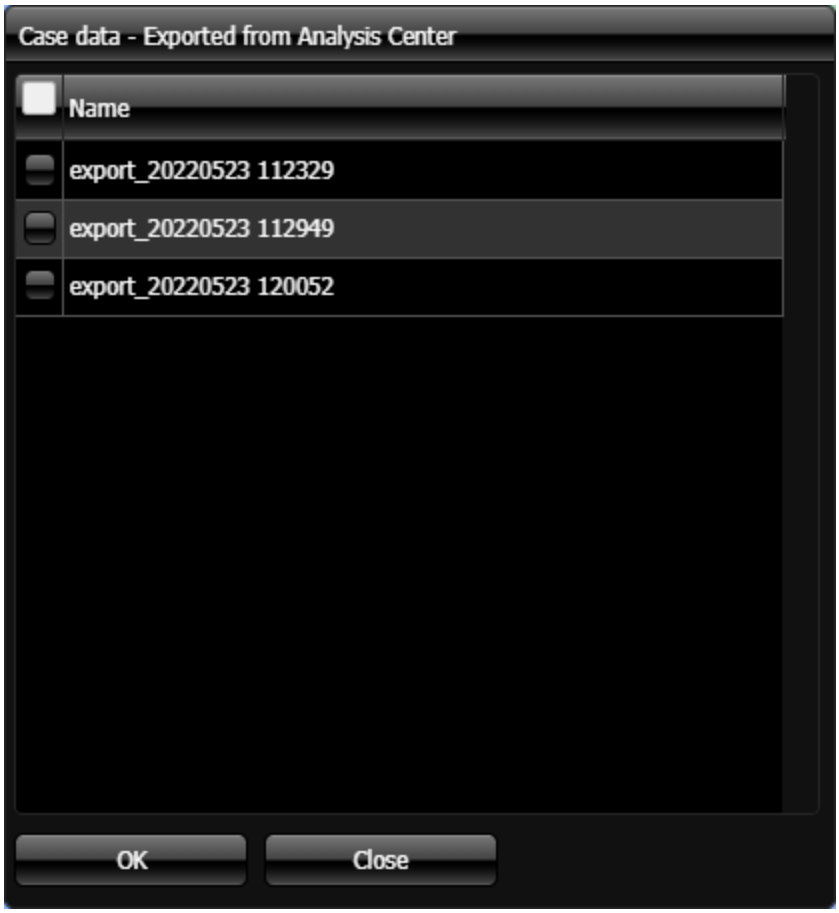
3.4.2 Case data - Exported from Analysis Center dialog box

This topic provides an overview of the **Case data - Exported from Analysis Center** dialog box. This dialog box is opened by clicking the case name on the **Info** tab on the **GATA panel on page 30**.

The **Case data - Exported from Analysis Center** dialog box list all the exported OSS-ESPA analysis center data that is available for the displayed case. You can select to display one or more exported data files.

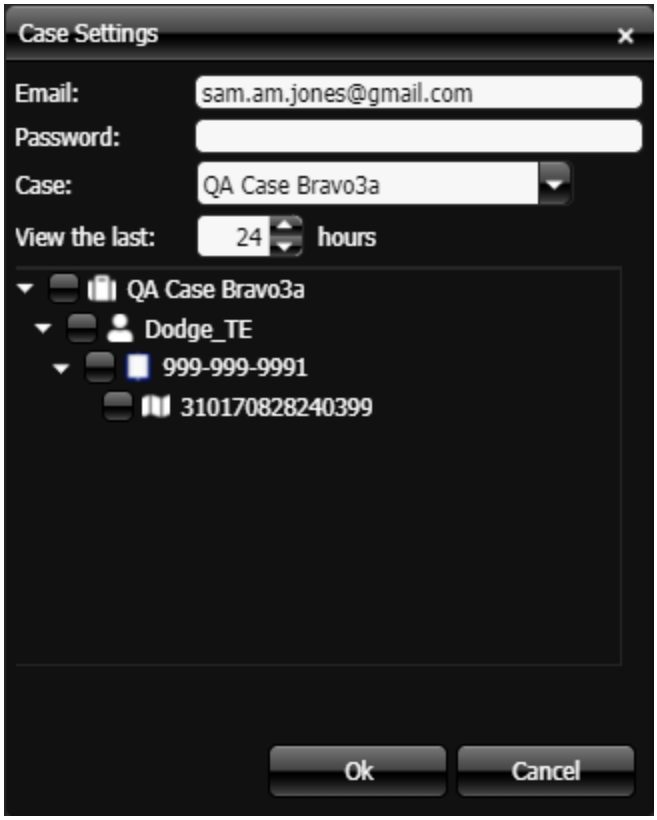
This data is exported from the **ESPA analysis center** using  and selecting **Export map to Sentinel**. The export is automatically named using the date and time of the export. The details that are exported are:

- Network and network labels: if either are selected then both are exported. However the only network locations which are exported are those in the current zoom area of the OSS-ESPA's map.
- Polygons: all polygons are exported irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map.
- Target locations: all target locations are exported irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map. In Google Earth the target location icons are displayed as they are in ESPA analysis center, however in MapPoint the target locations are only displayed using the same color as in ESPA analysis center but without the graphic.
- Sectors: all sectors are exported irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map.
- Towers by usage: all the usage details of each sector irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map are exported and can be viewed in Google Earth. In Google Earth the height of the sector represents its usage.
- Calls by day: all the calls from the selected phone numbers are exported and you can select to view them in Google Earth on a day by day basis.
- Cell coverage and WiFi coverage: all signal trails and drive trails are exported irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map.
- Geo-location: all the geo-location events and confidence circles are exported irrespective of whether or not they are in the current zoom area of the ESPA analysis center's map.


Case data - Exported from Analysis Center
Name
export_20220523 112329
export_20220523 112949
export_20220523 120052
OK
Close

3.4.3 Case Settings dialog box

The **Case Settings** dialog box is opened by clicking Case on the **GATA panel on page 30**. It allows you to sign into your OSS-ESPA account and select which of your intercepts you want to view.



Email and Password

Enter your OSS-ESPA email address and password then click **OK** to sign in. The software is reloaded and synchronizes with OSS-ESPA. On returning to this dialog box your cases are automatically listed in **Cases**.

You do not have to sign in each time you open the software. You only need to sign in on your first use, or after another user has been signed in.

Cases

Once you are signed into OSS-ESPA using your **Email** and **Password** all your cases are automatically listed. Select the case you are monitoring. The case's people, phones and CASEIDs (LIIDs) are now listed.

View the last x hours

Select the previous number of hours you want to view for both:

- active and historical trails, and
- active calls.

The oldest data is removed from the screen when it becomes outside of the selected time period. The maximum value is 96 hours (4 days). The default is 8 hours.

Phones

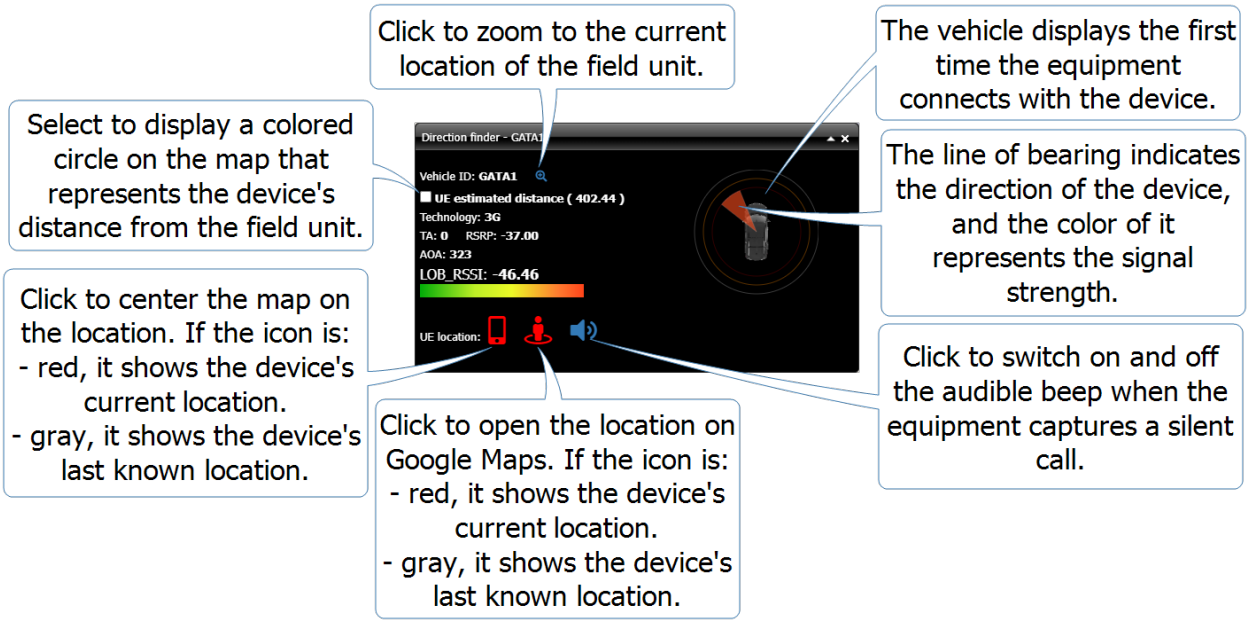
This displays all the people, phones and CASEIDs (LIIDs) for the selected case. Select which ones you want to retrieve the data for. The data associated with these is then populated on the **Current activities** tab, **Last known** tab and the map.

If the i-case associated with the phone is either disabled or no longer valid it will display as  .

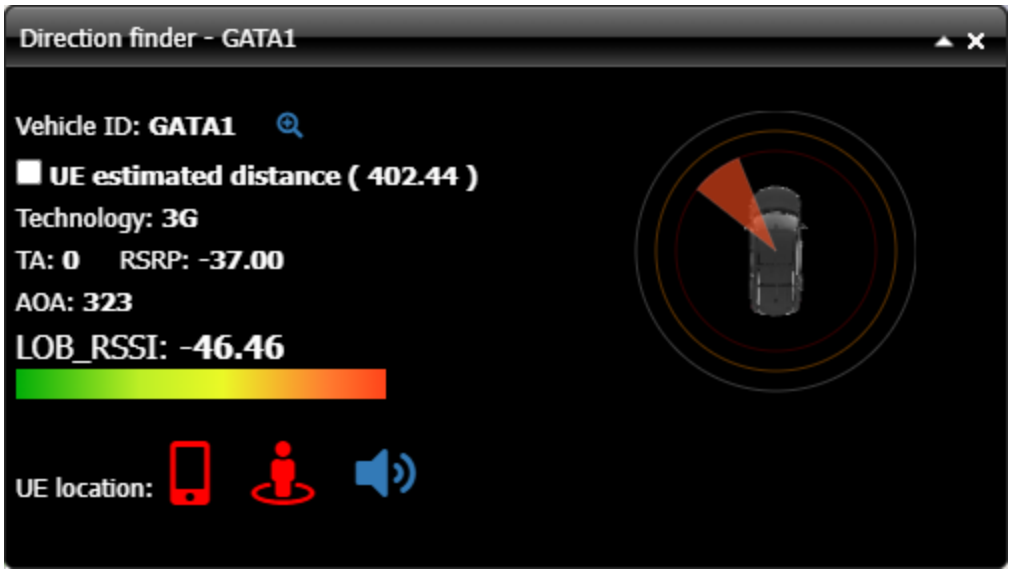
3.4.4 Direction finder pop-up

The **Direction finder** pop-up displays information gathered from GATA field units which can help you find devices of interest. The pop-up displays the current or last known location, the signal strength, the line of bearing, and the distance from the device.

The following graphic explains the features of the **Direction finder** pop-up.



This graphic shows how the pop-up appears with red icons when the equipment is connected to the device via a silent call.



If any readings are invalid then:

- **No location** and no vehicle are displayed when the AOA value is invalid.
- **No signal** and no signal strength bar are displayed when the LOB_RSSI value is invalid.

To view the **Direction finder** pop-up you must have it selected to display on the **GATA Views dialog box on page 42**. You can also select:

- **Use transparent background in direction finder window on page 45** to display it with a transparent background which is useful if you are overlaying it on the map as it allows you to continue to view the street layout.
- **Floating direction finder window on page 45** which allows you to move it over the entire map rather than limiting it to the field unit tab.

For further information on using the **Direction finder** refer to **Monitoring movement on the Map View on page 6**.

The vehicle displays the first time the equipment connects with the device.

The line of bearing indicates the direction of the device, and the color of it represents the signal strength.

Click to zoom to the current location of the field unit on the map.

UE estimated distance

Select to display a colored circle on the map that represents the device's estimated distance from the field unit. This, along with the line of bearing can help you identify the location of the device.

Click to open the device's estimated location on Google Maps. If the icon is:

- red, the equipment is connected to the device and the location shown is the device's current location.
- gray, the equipment is not currently connected to the device and the location shown is the device's last known location.

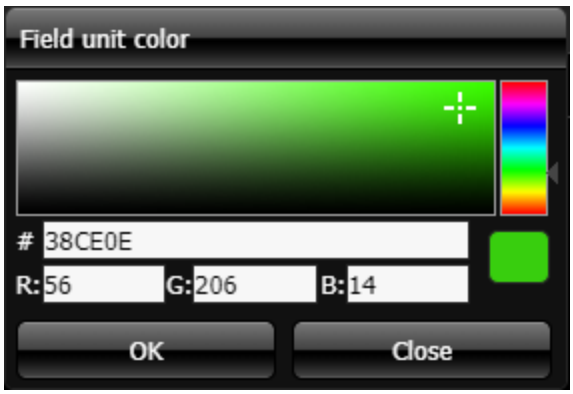
Click to center the map on the device's estimated location. The location is displayed on the map using this same icon. If the icon is:

- red, the equipment is connected to the device and the location shown is the device's current location.
- gray, the equipment is not currently connected to the device and the location shown is the device's last known location.

Click to switch on and off the audible beep which occurs when the equipment captures a silent call indicating that it is connected to the device.

3.4.5 Field unit color dialog box

The **Field unit color** dialog box allows you to select the color you want the field unit's marker and trail displayed in, on the map. This color is then applied to the selected field unit throughout your account. Therefore if you change the color, it will also change for all users and in all cases.

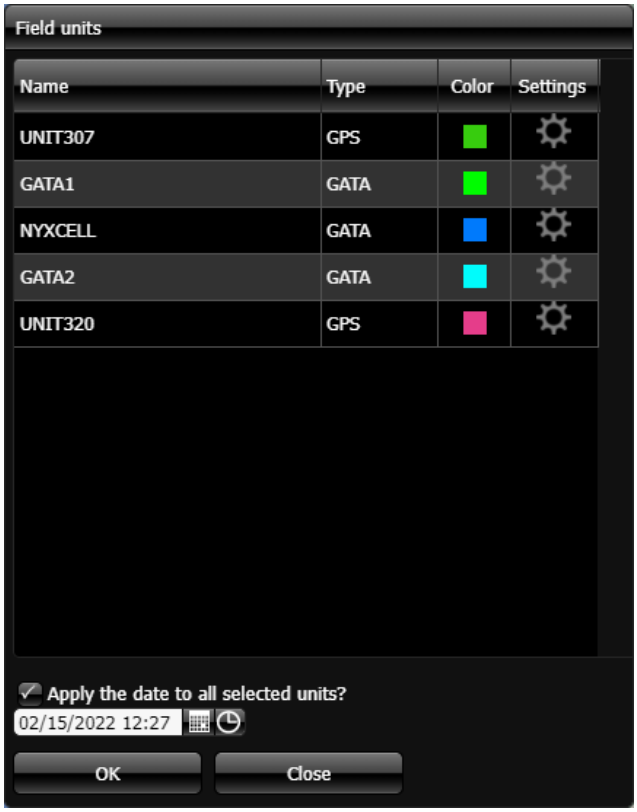


3.4.6 Field units dialog box

The **Field units** dialog box is opened by clicking Units on the **GATA panel on page 30**. The field units listed are either GAR and GATA units, Bluetooth GPS Cradlepoint units, and Over-The-Air units that have been selected on OSS-ESPA's **Sentinel** screen by the monitor for your case; that is the case you currently have selected on the **Case Settings dialog box on page 37**.

This dialog box also allows you to open the **Field unit color dialog box on page 40** and the **Unit settings dialog box on page 44** which allow you to select how the field units and their data are displayed on your map. You can set not only the appearance of your field unit on your map but also that of other personnel's field units.

NOTE: Any changes you make to a field unit's settings will also change for all GATA and OSS-ESPA users, and in all cases.



Color

Click on a field unit's color to open the **Field unit color dialog box on page 40**. This dialog box allows you to select which color you want the field unit's location and trails displayed in on the map. This color is then applied to the selected field unit throughout your account. Therefore if you change the color, it will also change for all users and in all cases.

Settings

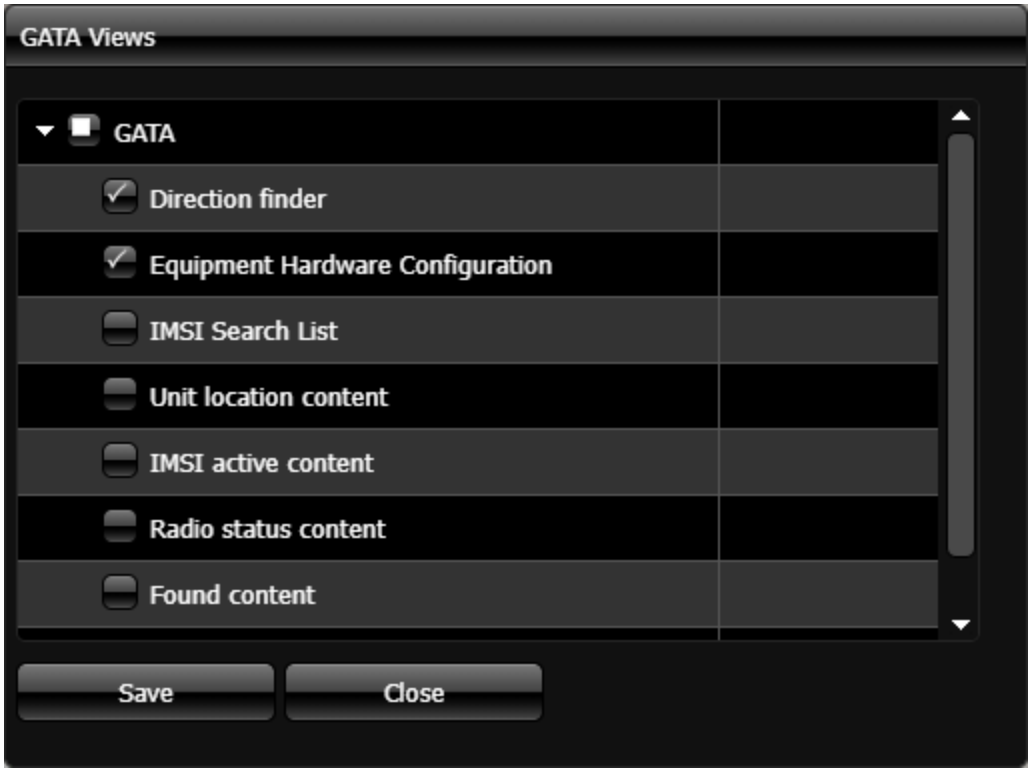
Click to open the **Unit settings dialog box on page 44**. This dialog box allows you to configure which campaign date is displayed and how the field unit data is displayed on the map.

Apply the date to all selected units?

By default this is set to the current date, however if you have a specific campaign date you want used for all the field units then select the date and time of the campaign. Note, this setting overrides any date you have selected in an individual field unit's **Campaign date on page 44**.

3.4.7 GATA Views dialog box

The **GATA Views** dialog box is opened by clicking Views on the **GATA panel on page 30**. It allows you to define which views you want displayed on the GATA field unit tabs. Currently only the **Direction finder** is implemented, for further information refer to the **Direction finder pop-up on page 38**.

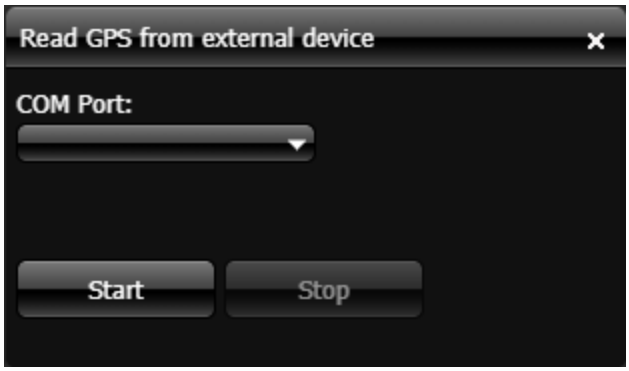


3.4.8 Read GPS from external device dialog box

The **Read GPS from external device** dialog box is opened by clicking External GPS on the **GATA panel on page 30**. It allows you to give GATA access to your current location when you do not have a GAR unit or an Over-The-Air unit. This location data is then displayed on the GATA map and on OSS-ESPA's **Sentinel** screen, where your movements can be monitored. This allows you and other personnel, to determine your position relative to a point of interest, such as a location or a suspect. It allows all personnel using GATA to monitor areas you are searching, which means it is easier for monitors to direct personnel to useful search areas and avoid multiple personnel searching the same areas.

To use an external GPS device you must use this dialog box to select the USB port that the GPS device is connected to, for example your phone. Both USB and bluetooth GPS are supported. If you are using a phone you must also ensure it does not lock. Once you have started the tracking, your location is updated on both the GATA map and on OSS-ESPA's **Sentinel** screen every second.

If you require information on using an external GPS device refer to **Using an external GPS device on page 24**.

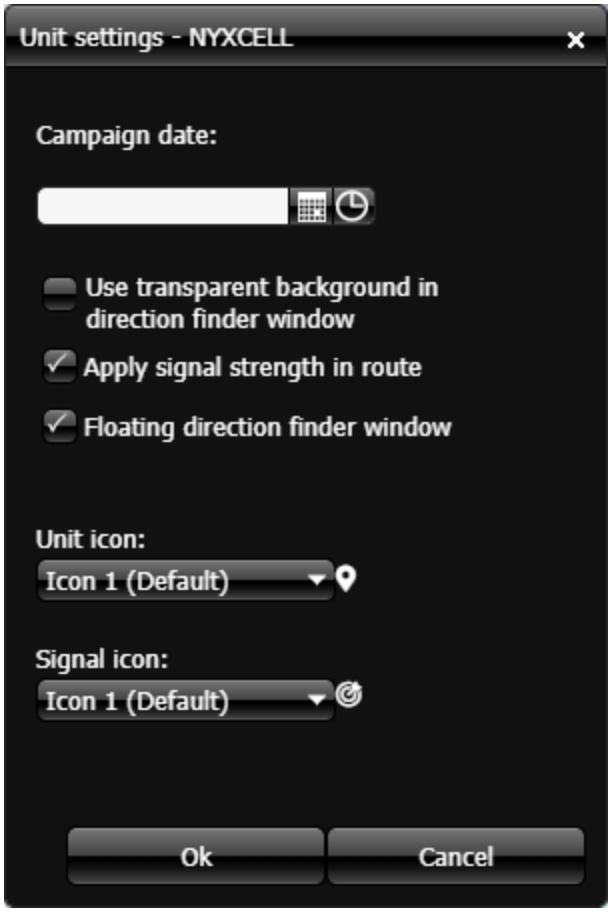


3.4.9 Unit settings dialog box

The **Unit settings** dialog box allows you to configure which campaign date is displayed on the map, and what icon style is used for the unit.

In addition, if it is a GATA field unit, then you can also define whether or not the signal color is displayed on the map, and if an icon is used to display the signal rather than a solid line. You can also select to display the location and appearance of the **Direction finder** pop-up.

NOTE: After any changes are made you must refresh your browser for them to be displayed.



Campaign date

If you have a specific campaign date for the field unit that you want displayed on the map then select the date and time of the campaign. Note, if you have a date selected in **Apply the date to all selected units? on page 42** then that overrides this setting.

Use transparent background in direction finder window

This setting is only available when the field unit type is GATA.

Click to display the **Direction finder pop-up on page 38** with a transparent background. This allows you to maintain visibility of the map.

Apply signal strength in route

This setting is only available when the field unit type is GATA.

Select if you want to display the signal strength color on the signal trail.

Floating direction finder window

This setting is only available when the field unit type is GATA.

Select if you want to allow the **Direction finder** pop-up to move over the entire **Software description on page 25**. If this is not selected then the **Direction finder** pop-up is limited to moving within the field unit tab on the **GATA panel on page 30**.

Unit icon

Select which icon you want used to display the field unit on the map.

Signal icon

This setting is only available when the field unit type is GATA.

If you want to use an icon to display the signal trail then select one from the available options.