
FireMapper Enterprise Manual

Fire Front Solutions Pty Ltd

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FireMapper Enterprise is a mobile mapping solution designed to operate in high-tempo operational environments, provided as a subscription that includes:

- Real-time and collaborative situational awareness
- Real-time location sharing
- Map importing (GPX, KML, KMZ & GeoPDF)
- Additional export formats (KMZ, ZIP)
- ADS-B & Bluetooth GPS support
- Third party integrations (ArcGIS, TracPlus, Tablet Command, QGIS)
- Additional live feeds
- Custom base layers
- Mobile Device Management Integration (for managed device configs)
- Centralised management via the FireMapper Portal

This is available on an annual subscription for individuals, brigades, districts or organisations. For more information, please visit: <https://www.firefront.com.au> or contact us

Note: This manual is for FireMapper Enterprise. There is another manual that covers **FireMapper Standard**

CONTACT US

FireMapper Support Hub

For documentation and other user guides for FireMapper, check out our Support Hub:

<https://docs.firemapper.app>

Website

Find out more information about FireMapper on our website:

<https://www.firefront.com.au/>

Email

Contact our Support Team: *support@firemapper.app*

General questions: *contact@firemapper.app*

Facebook Page

Follow us on Facebook to stay up to date with the latest updates and features:

<http://www.facebook.com/FireMapperApp/>

FireMapper Users Group

This is a forum to discuss new features and seek help from other FireMapper users:

<https://www.facebook.com/groups/firemapper/>

1.1 Download FireMapper

FireMapper Enterprise

FireMapper Enterprise is free to download, but requires an annual Enterprise Subscription to be activated for use. It is designed for organisations that require multiple users to share maps and data in real time. Please *contact us* for more information.

The **FireMapper Portal** is a linked platform accessible through an Enterprise subscription. It is a centralized web-based management system designed to streamline tracking, configuring, and editing of the organisation's maps

and user profiles.

Please see [here](#) for more information.

Note: There is another more light-weight version of FireMapper which does not support collaborative mapping. Please see [FireMapper Standard](#) for more information.

1.1.1 Device Compatibility

Android

- **Supported Devices:**

- Android 7 (or later)

- **Recommended Hardware:**

- GPS Receiver (required for capturing photos, displaying and recording location) - note that some tablets like the Google Pixel Tablet don't include a GPS receiver
- Compass Sensor (required to determine the direction of captured photos)
- Rear Facing Camera (required for capturing photos)

iOS

- **Supported Devices:**

- iPhone
- iPad (cellular model is strongly recommended as the Wi-Fi model does not include a GPS receiver)

- **Software:**

- iOS 15.6 (or later)

Note: FireMapper can be installed on Chromebooks (which don't include GPS receiver, compass, camera) however some functionality will not be available such as recording GPS locations, capturing photos, or displaying current location

1.1.2 App Permissions

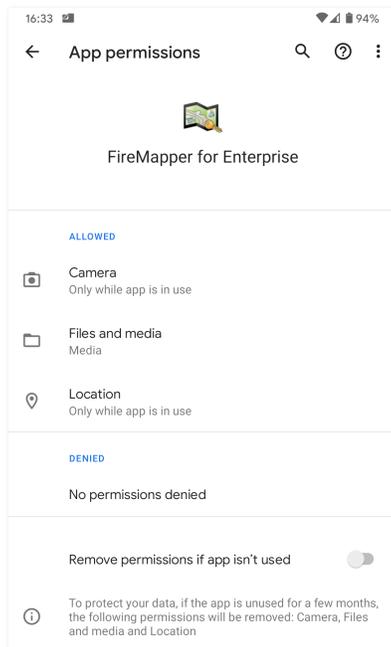
FireMapper requires location and camera permissions from your mobile device.

Android

1. Open the **Settings** App.
2. Tap **Applications**.
3. Tap **FireMapper Enterprise** application from the list of applications in the Settings app.

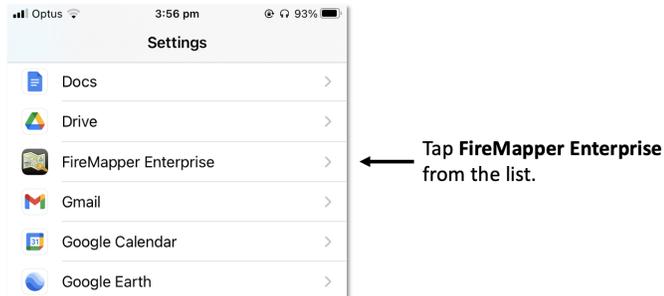


4. Tap **Permissions**.
5. Check that **Location** is enabled and set to **Allowed all the time**. This will allow FireMapper to display your location on the map, record GPS tracks and mark your location on the map. 'Allowed all the time' allows GPS tracks to be recorded even with the screen turned off.
6. Check that **Camera** is enabled and set to **Only While App in Use**. This will allow FireMapper to capture geo-referenced photos and use the camera for the internal QR scanner.

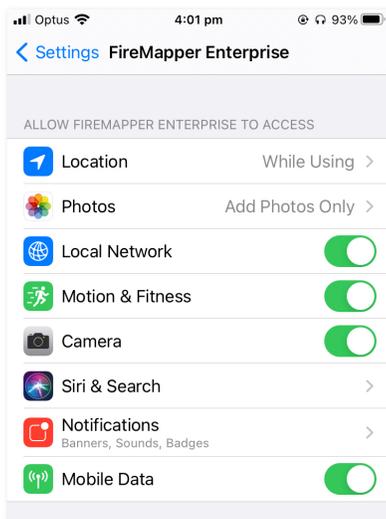


iOS

1. Open the **Settings** App.
2. Select **FireMapper Enterprise** from the list of applications.

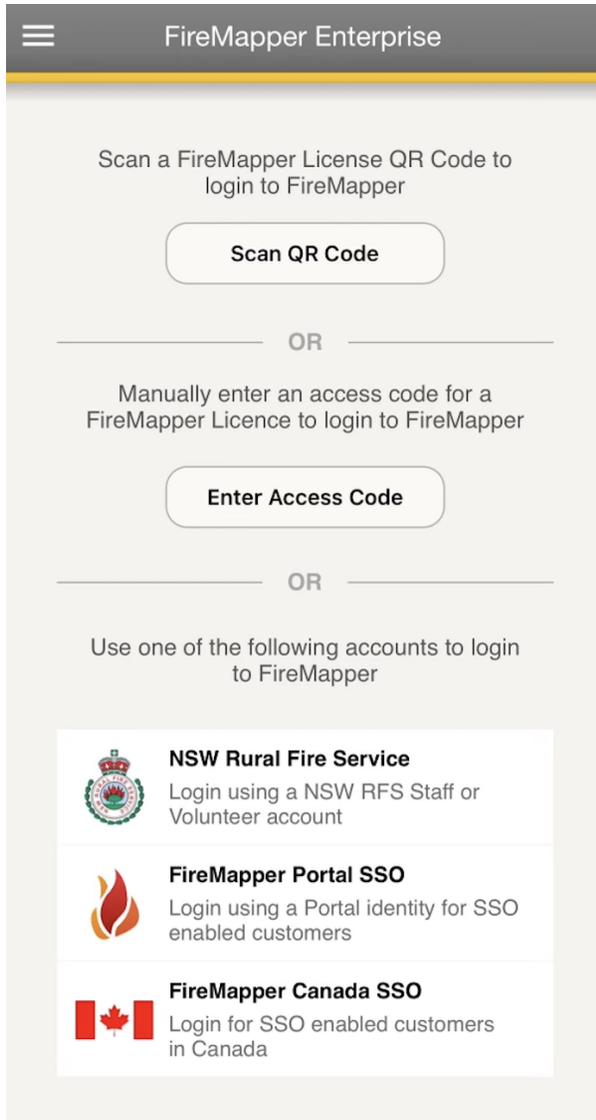


3. Check **App Permissions**
 - a. Set **Location** to **While Using** and **Precise Location** is Enabled. This is required to display your location on the map, record GPS tracks or mark a location.
 - b. Set **Photos** to **Add Photos Only** to save photos from FireMapper to your photo gallery.
 - c. Enable **Motion and Fitness** to record map features using user motion activity. This is used to automatically detect observations that have been recorded by ground crew.
 - d. Enable **Camera** to capture photos and use the in app QR code scanner.
 - e. Enable **Mobile Data** to use your device's Mobile Data connection.
 - f. Enable **Location Network** to connect to use location sharing or want to connect to an ADS-B receiver via the GDL90 protocol. This is only used by FireMapper Enterprise.



1.2 Activation

Users must 'Activate' FireMapper Enterprise, i.e. log into a valid FireMapper profile, before they can use the app. There are various ways to log in.



1.2.1 FireMapper Licence

A FireMapper licence can be used to authenticate a user. Licences are created via the [FireMapper Portal](#) and should be created on a per user basis. Each licence has a corresponding QR code and alphanumeric code.

- **Scan QR Code:** Uses the in-app QR scanner to scan the Licence QR Code. FireMapper will need permission to access the camera to use this option.
- **Enter Access Code:** Allows manual entry of the alphanumeric access code. This is useful if the QR code cannot be scanned or if the user does not have a camera on their device.

1.2.2 Single Sign On

FireMapper supports Single Sign On (SSO). This allows users to log in using their existing credentials via the organisation specified identity provider. There are two options for SSO integration into FireMapper.

1. **Default universal access:** This option gives access to FireMapper for all users with the organisation's email domain. Users can log into the Enterprise app and Portal using their organisation email address and password. Access level is role based and pre-configured.
2. **Manual FireMapper Identities-based access:** This allows Portal administrators to manually add users of a certain email domain to the FireMapper Portal and assign them roles. If a user has been added, they can then log into the Enterprise app and Portal according to their given permissions. For more information about managing FireMapper Identities, please see the [FireMapper Portal documentation](#).

Note: SSO is only available for organisations that have set up SSO with FireMapper. Contact us to set this up.

1.2.3 Tablet Command Integration

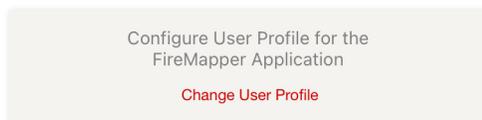
Tablet Command users will need to contact Tablet Command directly to enable the FireMapper integration on their account (support@tabletcommand.com). Once enabled, launch FireMapper from Tablet Command application to complete the setup process.

1.3 User Profile

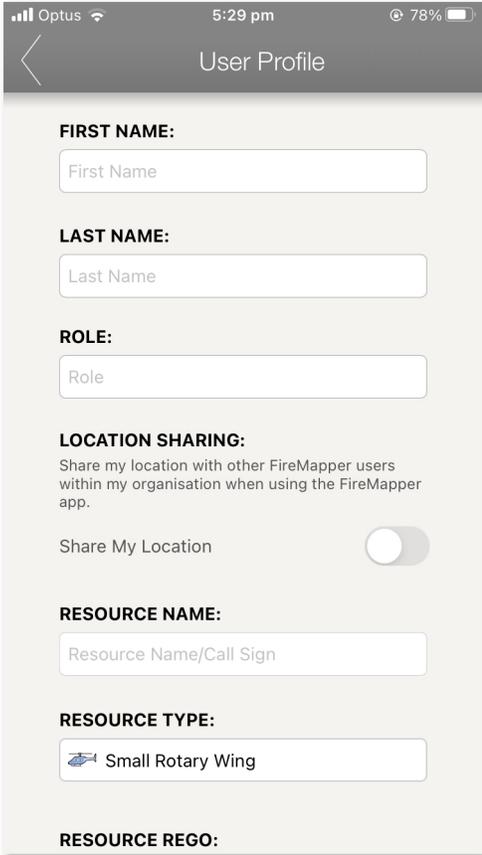
The User Profile screen contains the settings for FireMapper. These settings are specific to your device.

How to edit your user profile:

1. Tap the **Change User Profile** link at the bottom of the *Main Menu Screen*.



2. **Edit your profile** to make the required changes



3. Click the **Back Button** at the top of the screen to save changes and return to the *Main Menu Screen*.



1.3.1 First Name

The first name of the user. The first name field is visible to other users when using location sharing or when modifying shared maps.

This field is optional and intended for individual users. Leave this field blank if FireMapper is used on a multi-user device.



1.3.2 Last Name

The last name of the user. The last name field is visible to other users when using location sharing or when modifying shared maps.

This field is optional and intended for individual users. Leave this field blank if FireMapper is used on a multi-user device.



A screenshot of a user profile form. It features a label "LAST NAME:" in bold black text. Below the label is a white rectangular input field with a thin grey border. Inside the input field, the text "Last Name" is displayed in a light grey font.

1.3.3 Role

The role of the user/device (e.g. firefighter, crew leader). The role field is visible to other users when using location sharing or when modifying shared maps.

This field is optional and intended for individual users. Leave this field blank if FireMapper is used on a multi-user device.



A screenshot of a user profile form. It features a label "ROLE:" in bold black text. Below the label is a white rectangular input field with a thin grey border. Inside the input field, the text "Role" is displayed in a light grey font.

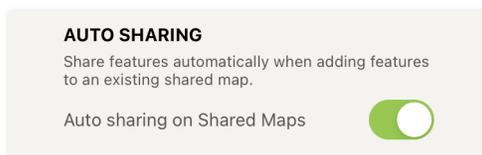
1.3.4 Auto Sharing

Auto Sharing Enabled

If Auto Sharing is enabled, any new map features (points, lines and photos) you add to an existing share map will automatically be shared with other users.

This only automatically shares new features created by you on existing shared maps. It does not automatically share features on private maps.

New photos on shared maps will automatically be uploaded as soon as they are captured. This allows you to capture and share photos without leaving the camera tool.

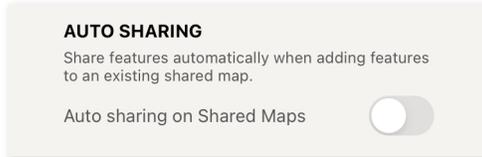


A screenshot of a settings card for "AUTO SHARING". The title "AUTO SHARING" is in bold black text. Below it, the text "Share features automatically when adding features to an existing shared map." is in a smaller grey font. At the bottom, there is a label "Auto sharing on Shared Maps" followed by a green toggle switch that is currently turned on.

Auto Sharing Disabled

If Auto Sharing is turned off, new features you add to a shared map will not automatically be shared. This allows you to add private features on a shared map that are not shared with other users.

If disabled, you will need to manually share the new features that you do want to share with other users using the green sync button when a feature is selected.



1.3.5 Location Sharing

Location Sharing allows you to share the device location with other FireMapper users in your organisation.

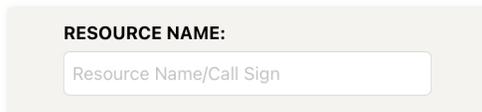
Users must opt-in to use location sharing on each device. It is not turned on by default.

FireMapper allows each device to identify itself either as a person or an appliance, with flexible appliance resource types and identification. Appliance locations are shared with other users in the same brigade, and visible on the FireMapper Portal.

Selecting **Share My Location** will display your location on shared maps for other FireMapper users in your organisation.

1.3.6 Resource Name

The resource name or call sign for the device/user. The resource name field is visible to other users when using location sharing or when modifying shared maps.



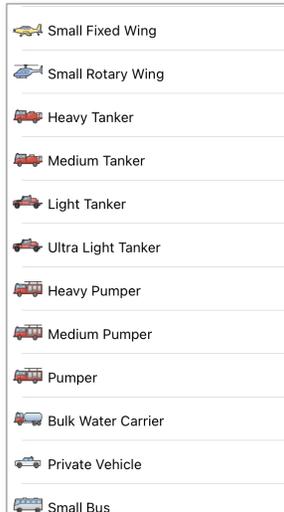
1.3.7 Resource Type

The resource type or call sign for the device/user. The resource type field is visible to other users when using location sharing or when modifying shared maps.

The resource type is used to determine the icon used for representing your location when location sharing is turned on.



Tap the Resource Type box to select from a range of available resource types:



1.3.8 Resource Rego

The resource rego or aerial id for the device/user. The resource rego field is visible to other users when using location sharing or when modifying shared maps.

RESOURCE REGO:

1.3.9 Default Email Destination

Default Email addresses to use when sending a email from FireMapper.

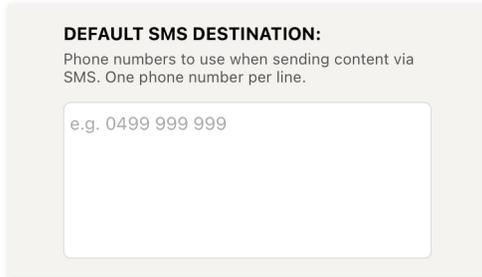
This feature is useful if you are always sending email messages to the same user from FireMapper.

DEFAULT EMAIL DESTINATION:

Email addresses to use when sending content via email. One email address per line.

1.3.10 Default SMS Destination

Default SMS mobile phone numbers to use when sending a SMS/MMS from FireMapper. This feature is useful if you are always sending text messages to the same user from FireMapper.



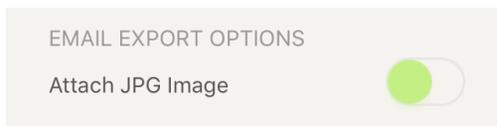
DEFAULT SMS DESTINATION:
Phone numbers to use when sending content via SMS. One phone number per line.

e.g. 0499 999 999

1.3.11 Attach JPG Image

This option allows you to disable the generation of JPEG map images when using the *Export As Map* option. Generating JPEG images requires map tiles to be downloaded from the internet and slow down export times. This option is intended for Advanced Users only.

Default is *enabled*.

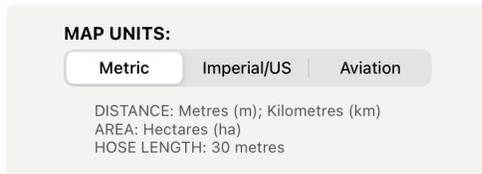


EMAIL EXPORT OPTIONS

Attach JPG Image

1.3.12 Map Units

Measurement Units to use in the FireMapper application.



MAP UNITS:

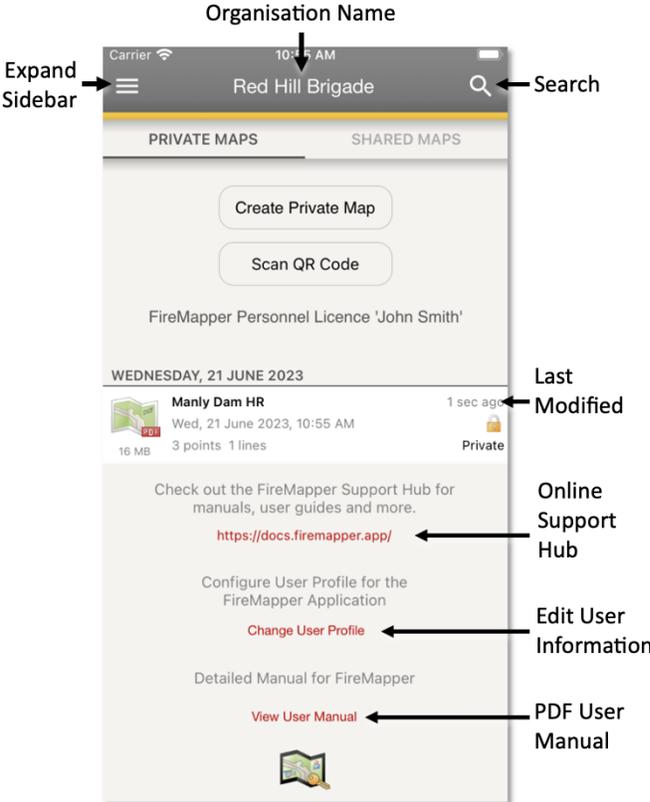
Metric Imperial/US Aviation

DISTANCE: Metres (m); Kilometres (km)
AREA: Hectares (ha)
HOSE LENGTH: 30 metres

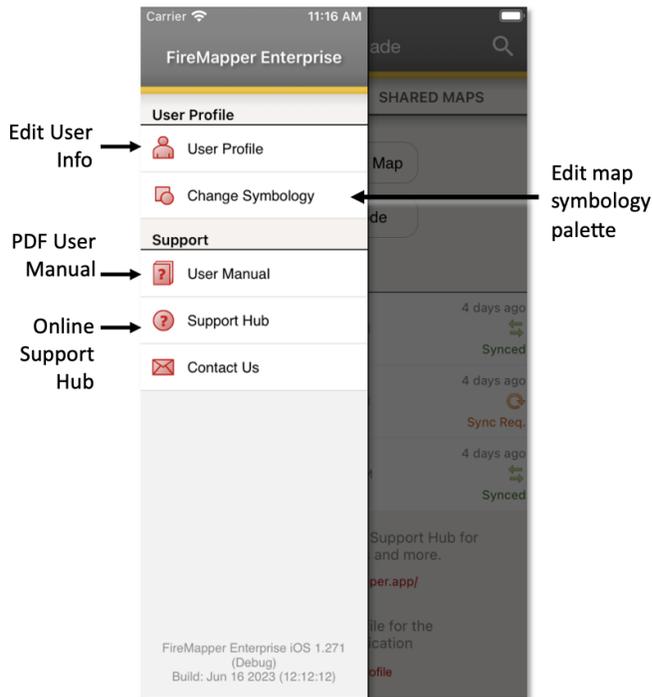
1.4 Map List

The *Map List* is the top level screen for FireMapper and contains all the maps available to your Profile. The Shared Maps list is available to Enterprise users only.

MAIN PAGE VIEW



EXPANDED MENU SIDEBAR

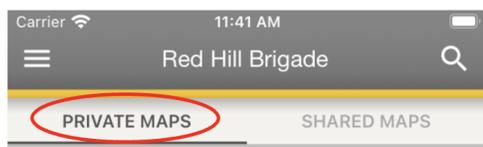


1.4.1 Create a Private Map

Private maps are stored locally on the device and are not shared with other users or devices.

Note: You can convert a private map to a shared map later if required: see [priv-to-shared](#).

1. Select the **Private Maps** tab at the top of the Main Menu screen.

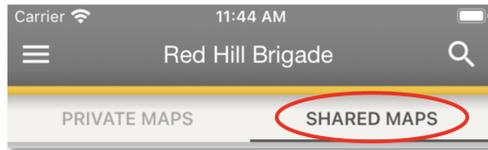


2. Tap the **Create Private Map** button.
3. Enter a new name for the private map. This is optional for private maps. If you don't provide a map name, your current street address and date will be used.
4. The *Map Screen* will appear with a new map.

1.4.2 Create a Shared Map

Shared maps are shared to all users within your organisation and allow collaborative editing in real time.

1. Select the **Shared Maps** tab at the top of the main menu screen.



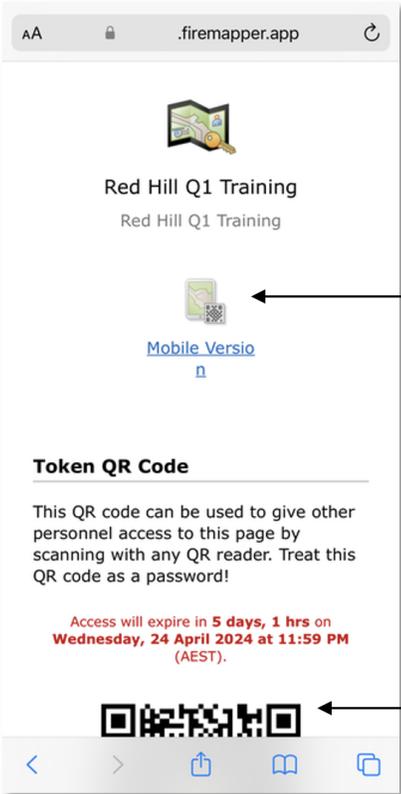
2. Enter a new name for the shared map. This can only be changed in the Portal after the map is created. The map name must be at least 5 characters long.
3. Tap the **Create Shared Map** button.
4. The new map will now be displayed in the shared maps list. When opening the map, the *Map Screen*'s shared map origin point will be automatically created and shared at your location. The map will automatically be of type: *Other*. This can only be changed in the portal.

1.4.3 Add Shared Map via Map Token

Maps can also be shared and accessed using Map Tokens. Map Tokens are **created via the Portal** and grant access to one singular map for a limited time. You can add maps using any Map Token created even by those outside of your organisation.

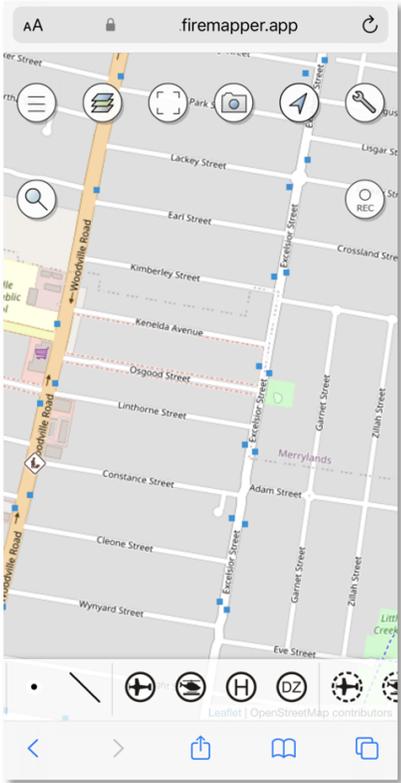
Given a Map Token, there are multiple ways you can access its map.

1. **URL:** Click the shared URL link. It will open a web browser which displays a QR code, an option to open map using the 'Mobile Version'. This 'Mobile Version' opens the map within the web browser.



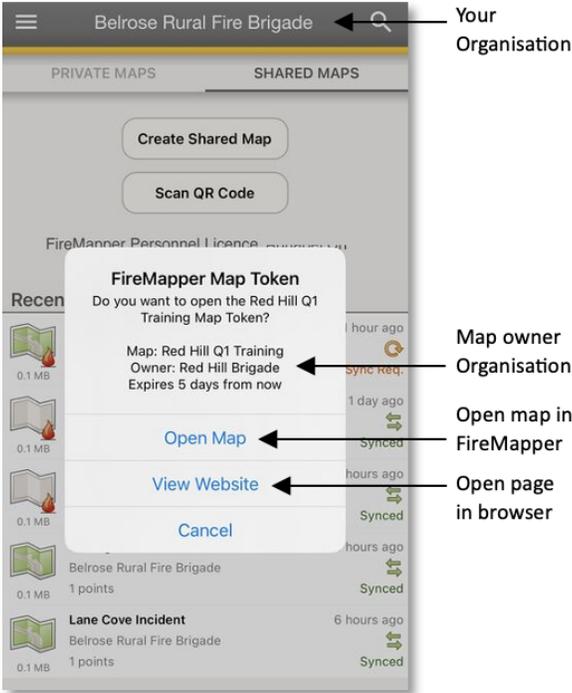
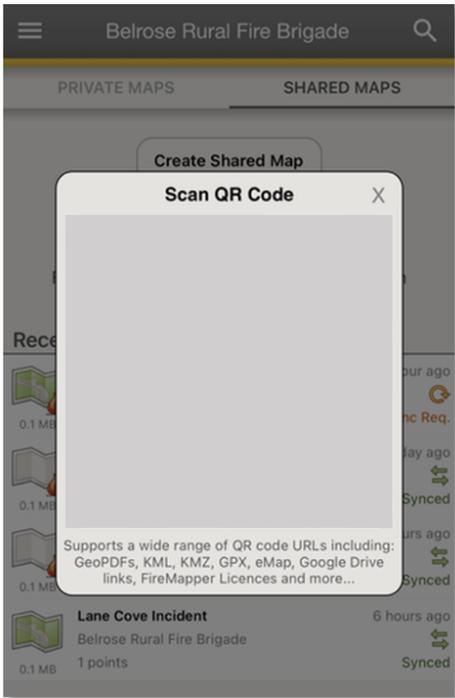
Open map in web

QR code for this map token



2. QR CODE: Scan the map token QR code using the in-app ‘Scan QR Code’ button and tap ‘Open

Map'. This will allow you to add the map to your shared maps list. Alternatively, tapping 'View Website' will take you to the same display as outlined above in the URL section.



3. The Map Token Map will now be viewable in your Shared Maps List

Map Tokens

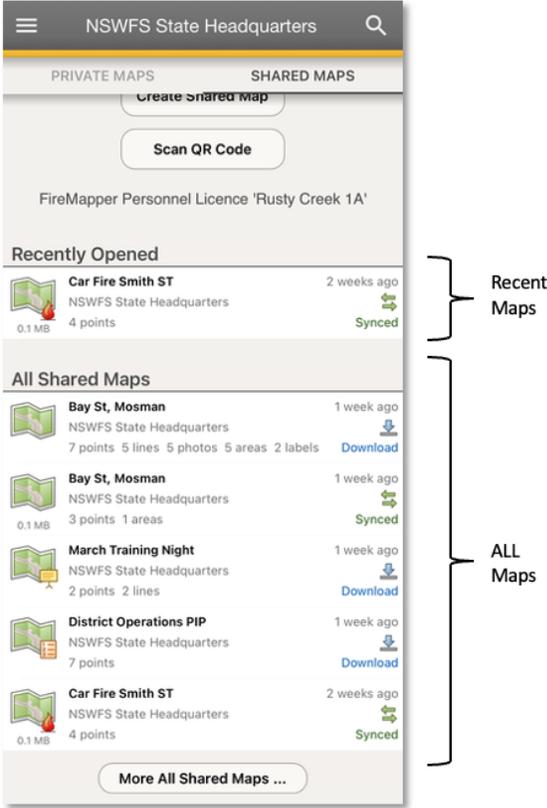
	Red Hill Q1 Training Red Hill Brigade Expires in 1 day	1 week ago  Map Token
---	---	---

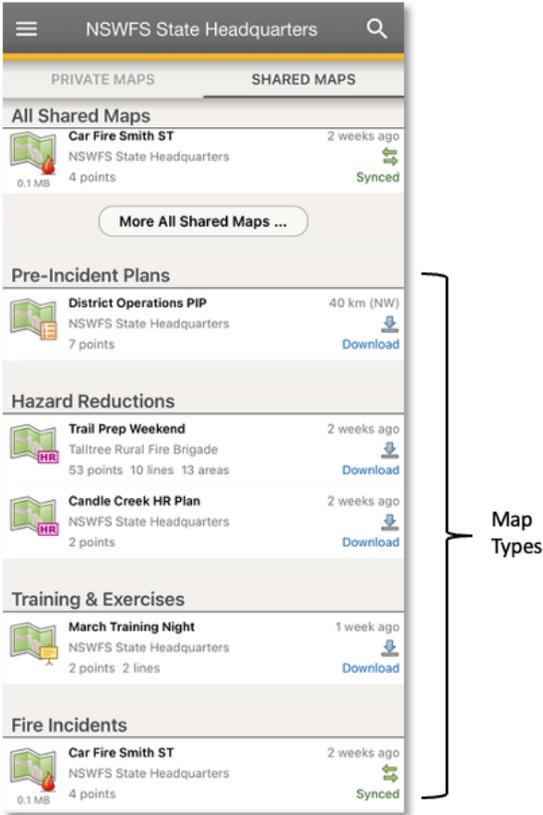
1.4.4 Shared Maps List

Maps in the Shared Maps list are shared only with all users within your organisation.

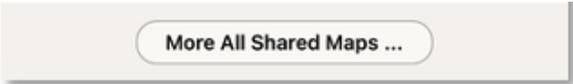
Shared Map Groupings

The Shared Maps List is made up of multiple sections, which group your organisation’s maps in different ways. A map may appear in multiple sections if it has multiple relevant tags. There are: Recent, All, and Map Type sections.

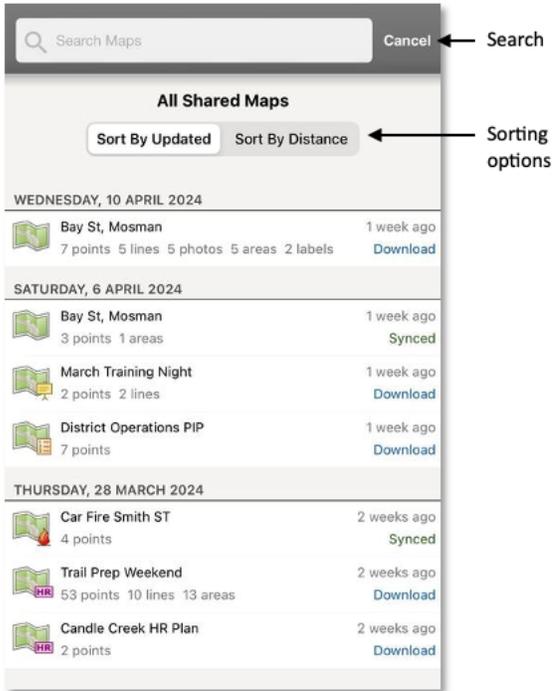




If a section contains more than 5 maps, a 'More Maps...' button will appear:



Clicking on it will bring up a pop-up page which allows you to view and search all the maps in that section:



Map Types

A shared map may be one of 8 types. Its type is viewable in the app, but can only be set in the portal. The following types are available:

- 1. Fire Incident
- 2. Storm & Flood Incident
- 3. Search & Rescue
- 4. Training / Exercise
- 5. Hazard Reduction
- 6. Pre-incident Plan
- 7. Data Collection
- 8. Police Operation
- 9. Other

1.4.5 Shared Map Status

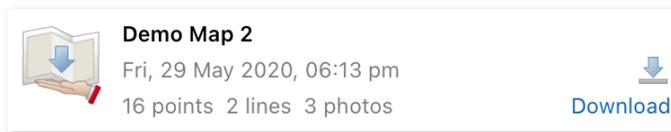
The status of each shared map is displayed on the right side of each map in the list. There are four possible states:

1. Download Required
2. Map Shared/Synced
3. Map Sync Required
4. Map Sync Error

1. Map Download Required

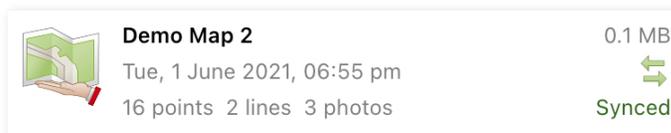
The shared map is only available on the FireMapper Server and has not been saved to your device. You will need an internet connection to view this map.

To download, open this map while connected to the Internet.



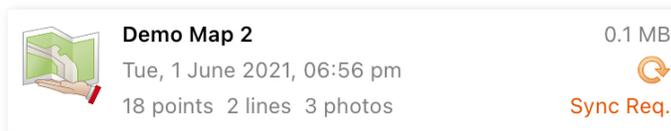
2. Map Synchronised

The shared map has been downloaded to the local device and is available offline. There are no changes that need to be synchronised between the local version and the FireMapper Server.



3. Map Sync Required

This means that your local copy of a shared map and the one on the FireMapper Server are different and have not been synchronised. Open the map while connected to the Internet to synchronise it and ensure you have the latest changes.



4. Map Sync Error

This means that a server side error has occurred while downloading or uploading changes for your map. Re-open the shared map to attempt the synchronisation again. The features affected by the sync error are marked on the map with a red glow.

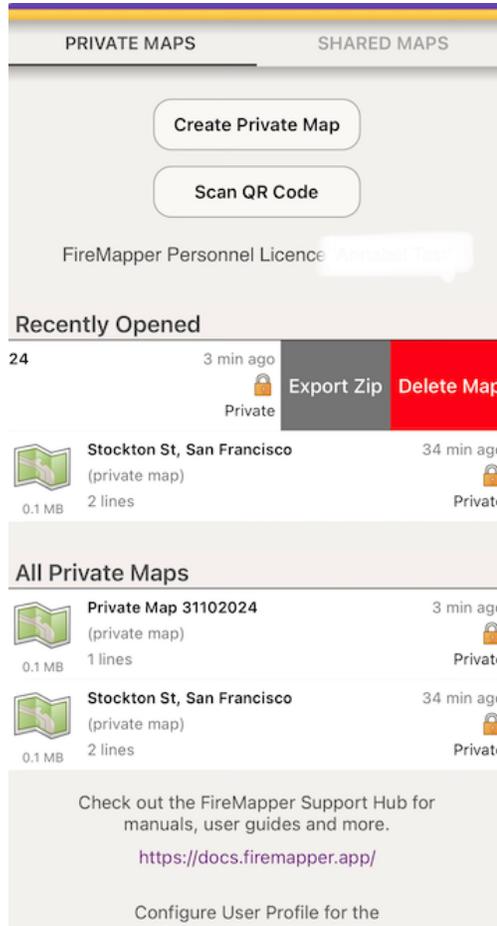
FireMapper will only attempt to resync failed features when the map is re-opened.

If you continue to get a red sync error, make sure you are running the latest version of FireMapper Enterprise and contact Support, as there may be an issue with your shared map.

1.4.6 Export a Private Map

In FireMapper iOS you can export a map from the *Main Menu* screen as a zip.

1. **Swipe your finger** from right to left on the map item on FireMapper iOS.



2. Tap the 'Export Zip' grey button to export the map as a zip file. The zip file will be saved to your iOS device's 'Files' app.

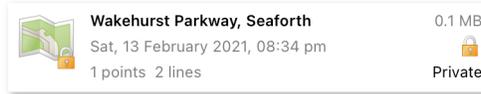
Note: You can import this zip file later back into FireMapper by going accessing it in the Files app, long holding, selecting share, then FireMapper Enterprise.

1.4.7 Delete Private Map

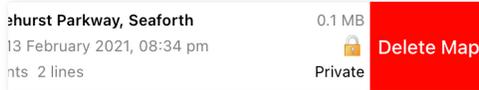
The steps for deleting a private map in FireMapper is different on iOS and Android devices.

In FireMapper iOS you can delete a map from the *Main Menu* screen.

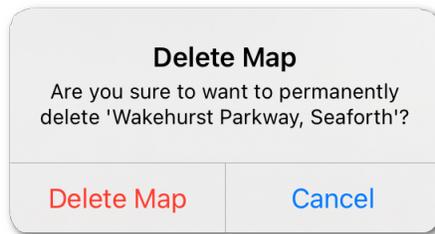
1. **Swipe your finger** from right to left on the map item on FireMapper iOS. On Android you will need to long press on the map item.



2. A red **'Delete Map'** button will appear on the right. Tap **Delete Map** to permanently delete the selected map file.



3. A confirmation dialog will appear if the map contains features. Click **Delete Map** to delete.



There is no confirmation dialog for blank maps. Blank maps will be deleted without an confirmation dialog.

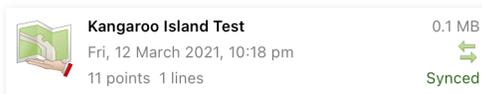
1.4.8 Remove Shared Map

The steps for removing a local copy a shared map in FireMapper is different on iOS and Android devices. This will remove the shared map from local storage and free up disk space. It is possible to re-download the map from the server.

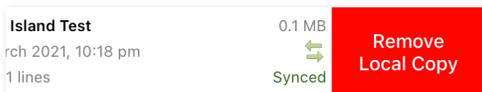
A FireMapper Portal user can archived a shared map to remove it from the list of shared maps for all users. Archiving a shared map will make the map read-only and stop it from being downloaded from the shared map list.

You can remove a local copy of a shared map from the *Main Menu* screen.

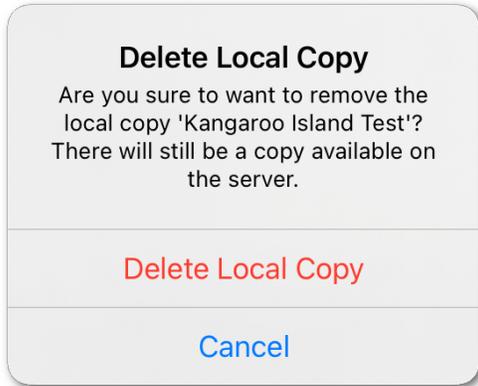
1. **Swipe your finger** from right to left on the map item on FireMapper iOS. On FireMapper Android you will need to long press on the map.



2. A red **'Remove Local Copy'** button will appear on the right. Tap **Remove Local Copy** to permanently delete the local copy of the shared map on your device. Any unsynchronised map changes will be lost.



3. Click **Remove Local Copy**. This only removes the local copy and does not remove the map from the server.

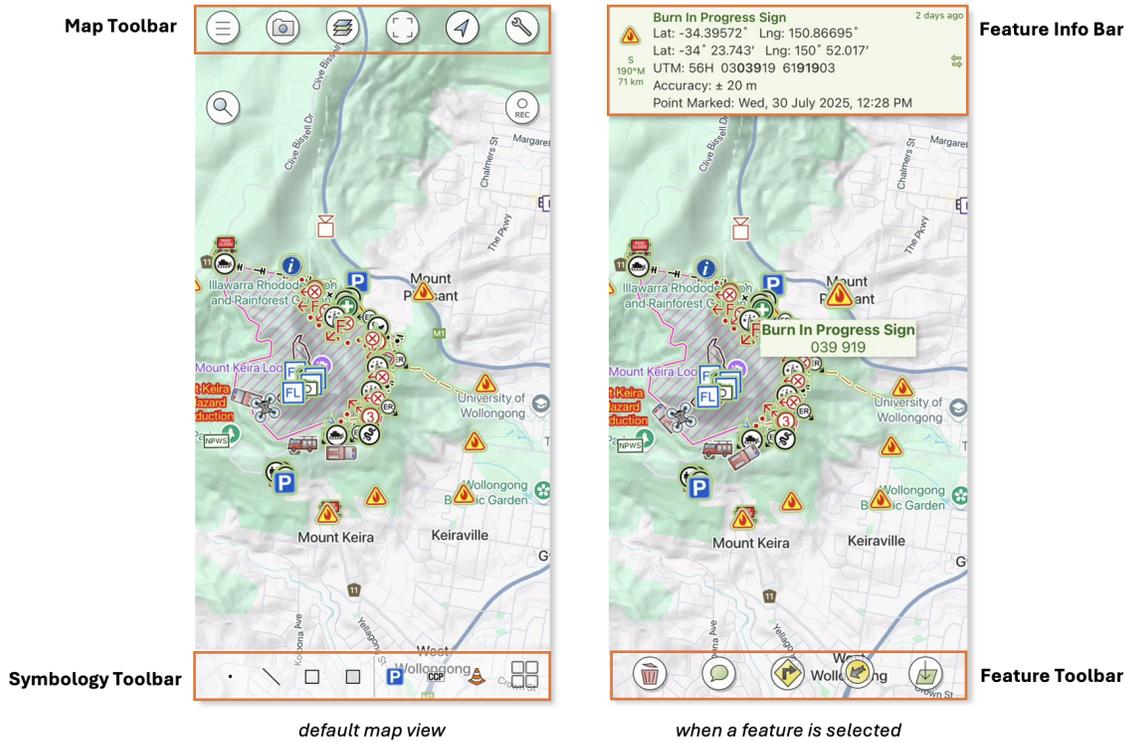


1.5 Map

The *Map Screen* displays map features (such as points, lines, photos and areas) and allows you to change between base maps (such as Google, Open Topo Maps, and others). FireMapper has various toolbars and popup views that automatically appear and disappear depending on whether a map feature is selected.

This section of the manual will cover the following topics:

- Navigating the Map Screen
 - *the Map Toolbar*
- Mapping & Features:
 - *the Symbology Toolbar* and how to add features to the map
 - *the Feature Toolbar* and how to edit features
 - *the Feature Info Bar* and how to view feature details



1.5.1 Navigating the Map Screen

Camera

When you take a picture, FireMapper automatically records the location and direction of the photos/image and displays it on the map. Photos taken with the GPS camera can be shared via text message, email and more via the 'Export Map' screen. FireMapper needs access to your location and camera to capture a photo.

Note: To add photos from your camera roll, use the *Add Files* button in the Layers Sidebar.

Note: The internal magnetic compass is used to determine the direction of the camera. Magnetic cases cause interference and will cause the photo on the map to be displayed in the wrong direction.

External Camera Capture Support (iPad only)

FireMapper allows the capture of photos from an external camera which is connected via USB cord. The iPad's location is used as the photo location, however no direction information is available as it is not supported by the UVC protocol.

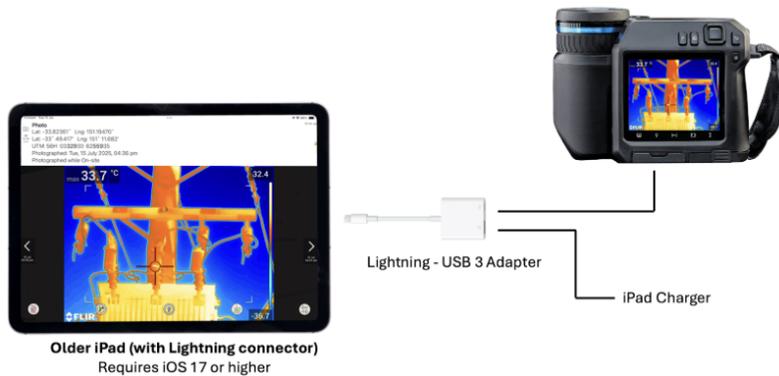
Camera requirements:

- Any camera that supports the USB Video Class (UVC) protocol including:
 - FLIR Cameras
 - Digital Cameras
 - USB Web Cameras

Device requirements:

- FireMapper iOS 1.353 and higher
- iPad (running iOS 17 or higher)

Note: Some older iPads do not have enough power to support external cameras. These devices thus need to be charged while having the external camera connected. Adapters such as the Apple Lightning to USB 3 Camera Adapter may be useful (<https://www.apple.com/au/shop/product/MX5J3AM/A/lightning-to-usb-3-camera-adapter>)

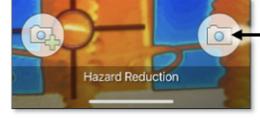


Once the external camera is connected, take photos as normal as per the next section.

- 1** Connect the camera to the iPad via a USB Cable.

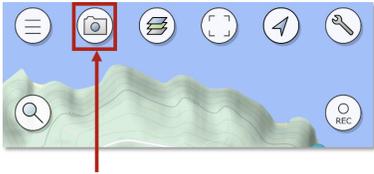

- 2** Open the **Camera** in FireMapper.


- 3** Use the **'Take Photo'** button on the camera screen

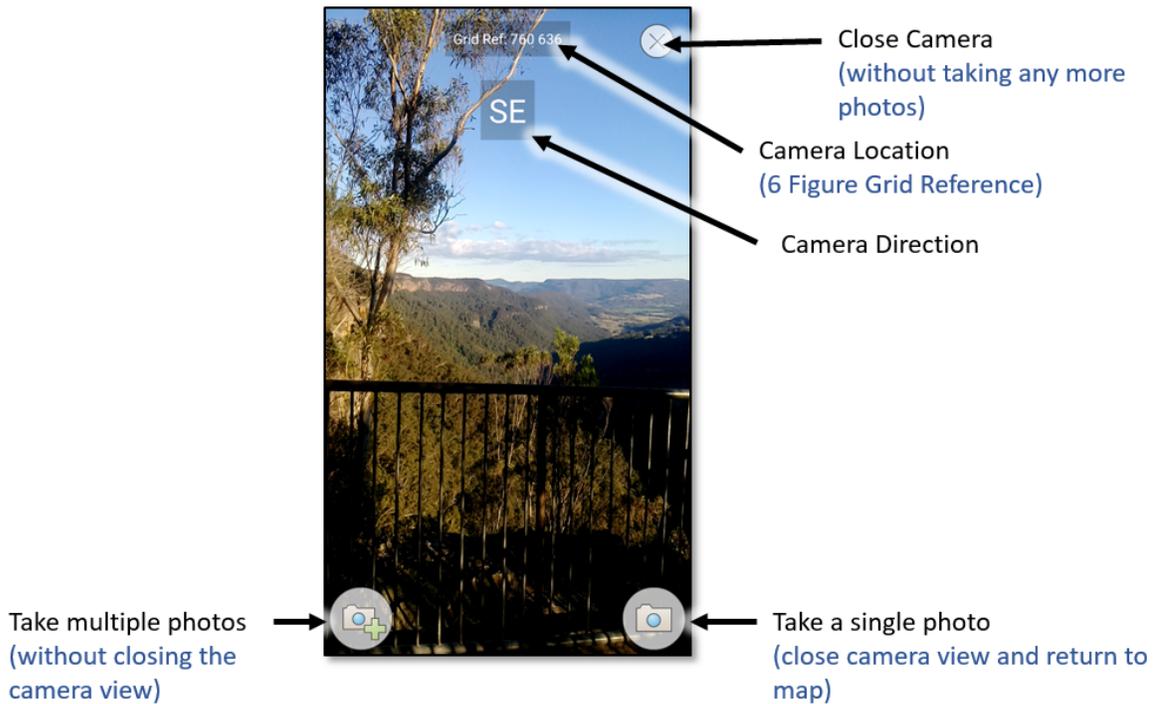


Taking a Photo

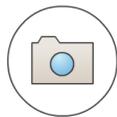
1. Tap the **Camera** button at the top of the *Map Screen*.



2. The *Camera Screen* will appear. Move the device in a figure 8 pattern to help calibrate the magnetic compass. This will reduce the error in the camera heading for the photo.



3. There are two buttons depending on the number of photos you want to capture. The button with the plus sign allows you to capture multiple photos without leaving the camera view and the other camera button allows you to quickly capture a single photo and return to the map.



Single Photo Mode

If you just need to take a single GPS photo and return to the map view



Multi Photo Mode

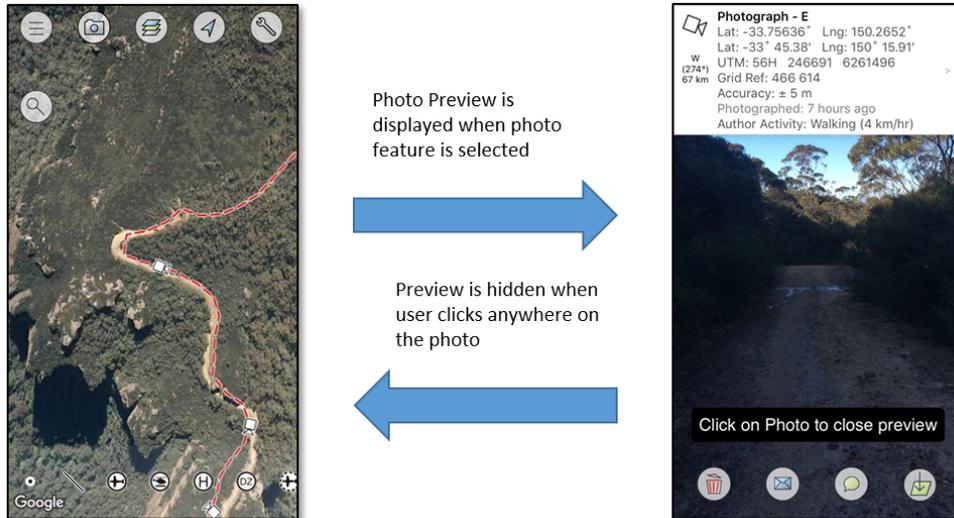
If you need to take multiple GPS photos quickly, one photo per button press.

4. The photo will be displayed on the map with a camera icon. The icon's direction corresponds to the direction at which you took the photo. Tap it to view the photo.

Sending Single Photos

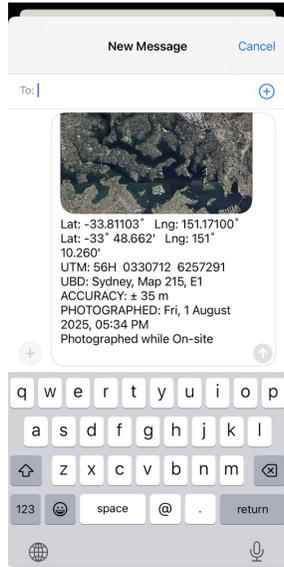
Share **single** photos from the Map Viewer Screen using the Email or Text shortcuts. This is useful if you quickly want to export a single photo.

1.  Tap the **photo** feature on the map you want to export to select.



1. Choose the export method you want to use:

- Tap the  **email** icon or the  **text** icon.
- The email and text options will open your standard email or text message application with the photo attached, and with the photo metadata included. Fill in the message recipient and edit the message body as required.



2. Tap **send**.

Note: For FireMapper iOS, you can only send emails using the *native iOS Mail application* with the *Send Email* feature. iOS Mail must be logged in to use this feature. Other mail apps such as Gmail or Outlook are **not supported** with this feature on iOS.

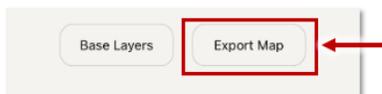
On FireMapper Android, you can use any email client.

Note: If you need to keep sending photos to the same email address/phone number, you can set *default destinations* on the *User Profile* screen.

Exporting All Photos

Export **all** photos from a map from the Export Screen. The available options will depend on what applications you currently have installed on your device.

1. Navigate to the *Map Properties Screen*
2. Tap the **Export** button



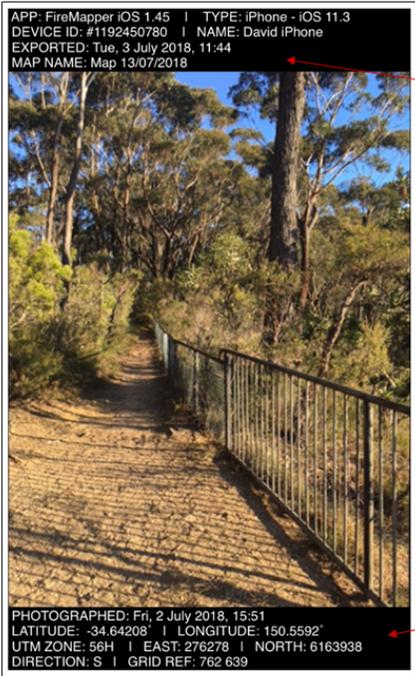
3. Tap the **Export All Photos** button.



4. Select where you want to export photos.



All exported photos will send in this format:

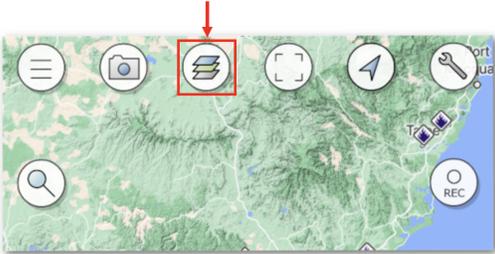


- APP** – FireMapper Application Version
- TYPE** – Type of mobile device (e.g. iPhone, iPad, ..)
- DEVICE ID** – A unique ID for the device
- NAME** – Device name (can be changed by the user in settings)
- EXPORTED** – The date and time the photo was exported from FireMapper
- MAP NAME** – the name of the local map that the user was using (can be changed from the Map Properties screen)

- PHOTOGRAPHED** – The date/time the photo was taken
- LATITUDE/LONGITUDE** – location of the camera in latitude/longitude (decimal degrees)
- UTM ZONE/EAST/NORTH** – location of the camera in UTM coordinates
- DIRECTION**: direction the camera is facing (magnetic north)
- GRID REF**: location of the camera in 6 figure grid reference

Layers Sidebar

This Sidebar contains all filters available to be toggled on and off in the map view. It is accessed from the Map Viewer toolbar. The layer sidebar can be closed by tapping the map area or the 'x' at in the top right corner.



The Sidebar consists of the following sections:

Manly Dam HR x

- Base Layers**
 - Terrain Map ✓
 - Traffic Map
 - Open Topo Map
 - LPI NSW Topo
 - NSW 25k Topo
 - Satellite Map
- Overlays**
 - PDF Page 1
- Feature Layers**
 - Rural Fire Brigades
- Map Features**
 - Points (3)
 - Lines (1)
 - Tracks

Callouts:

- List of base layers that are available for the current map extents and zoom level.
- List of map overlays that are available for the current map
- List of feature layers that are available for the current map extents and zoom level
- Map features that have been added to the current map.

Base Layers

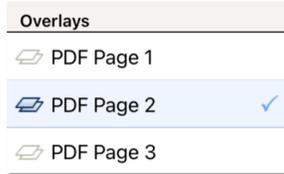
These are the base layer options for the map. These options will change depending on where you are on the map and the zoom level.

See *Offline Base Layers* for information on viewing them offline.

Base Layers	
	Terrain Map ✓
	Traffic Map
	Open Topo Map
	LPI NSW Topo
	NSW 25k Topo
	Satellite Map

Overlays

Imported GeoPDFs will be automatically converted to an Overlay layer. These overlays are superimposed on top of the base layers at the correct extents. Only one overlay layer can be viewed at once. Clicking on the desired overlay will toggle it on/off, as well as move the Map View to its extents.



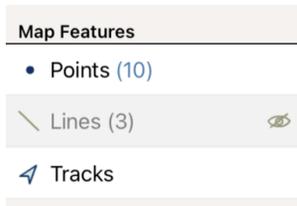
Feature Layers

Feature Layers are the read-only feature and incident feeds that are available with your current organisation configuration. This section on the layers sidebar lists all features visible with the current map extents and zoom. A feature type can be toggled on/off by clicking on its tab.



Map Features

Map Features are the features that have been added to the map by a user. This section displays the total number of each feature type added anywhere on the map. A feature type can be toggled on/off by clicking on its tab.



Add Files

FireMapper iOS/Android allows users to import files onto existing maps in-app.

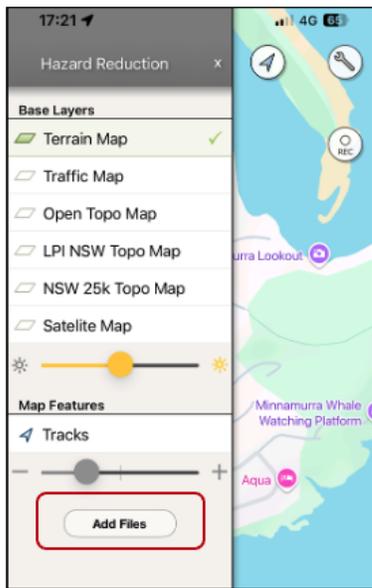
To add files:

1. Tap the **Add Files** button on the layer sidebar. This will open your files app.
2. Select the files you want to import from your device.
3. Confirm the import and the files will be added to the map.

The following file types are supported:

- Shared Maps

- JPG
- HEIC
- Private Maps
 - JPG
 - HEIC
 - TPKX (tile cache with EPSG 3857 projection)
 - KMZ
 - KML
 - GeoJSON
 - GeoPDF



GPS Recording

The **record** button is used to start and stop a GPS recording.

- When recording you can not switch maps.
- The GPS will continue to record in the background even when the screen is off if GPS recording is enabled.
- The distance recorded will appear at the bottom of the label while recording.
- If your recording is less than 20 metres it will not be saved.
- The recording algorithm down samples the recorded line to 10 metre intervals. This reduces the size of the recorded line so it is easier to export and results in a significantly smaller file size.

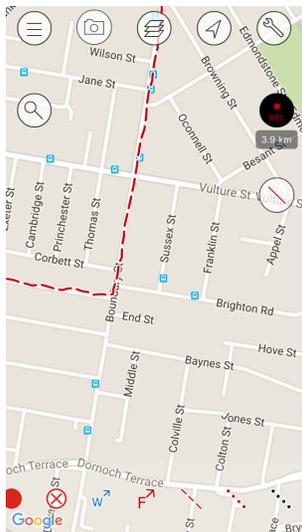
Note: On Android devices if you want to do GPS recordings with the screen off, you will need to update the location permissions for the FireMapper app to **Allow all the time** via the Android Settings app. This can only be done from the Android settings app due to security limitations of the Android operating system. These steps apply to Android 10 and higher. If this is not configured correct, GPS recordings will be paused when the FireMapper application is in the background or if the screen is turned off during a gps track recording.

1. Open the Android **Settings** App.
2. Go to **Apps** or **Applications** page
3. Go to **FireMapper Enterprise** page
4. Go to **Permissions** page for FireMapper Enterprise.
5. Select **Location permission** and change it to **Allow all the time**. This will allow FireMapper Enterprise to access your location when the app is in the background. This is required if you want to record a GPS track while you are using other apps on your phone or the screen is turned off.

Note: On Android devices the power saving mode may disable the GPS receiver when FireMapper is in the background or the screen is turned off. This behaviour has been observed on some HTC and Samsung devices. This issue can be resolved by turning off the Power Saving Mode during a GPS recording.

Directions:

1. Select the **line type** to use for the recording at the editor toolbar at the bottom of the *Map Screen*.
2.  Tap the *Record* button to start the recording. The record button will change to a black background  while the recording is in progress.
3. Walk, drive or fly over the track that you want to record. You can even turn your screen off and FireMapper will continue to record in the background.



4.  Tap the *Record* button again to *save* your recording.
5. The recorded line will appear on your map. The line will automatically be shared if you are using a shared map and auto-sharing map is enabled.

The Map Toolbar appears at the top of the Map Screen. The toolbar is visible in Map Mode, ie. when no features are selected and disappears when a feature is selected on the map.



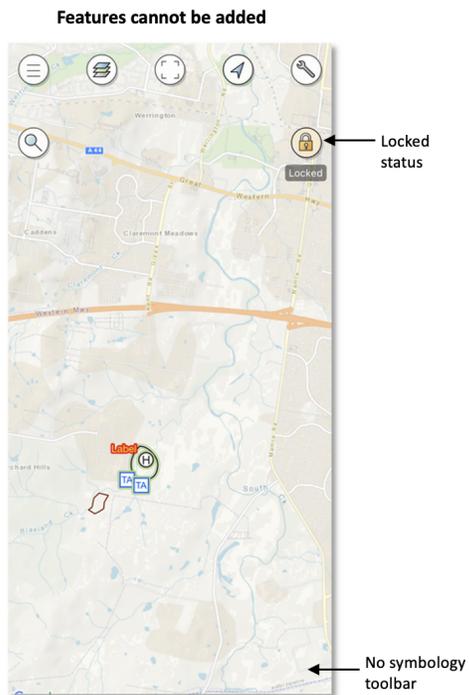
- 
Back to Map List: closes the map and returns to the *Map List*. Any GPS recording will stop.
- 
Search: opens the Search screen. You can search for coordinates, addresses and more. *See more >*
- 
Camera: opens your device camera or external camera if it is attached *See more >*
- 
Open Layers Sidebar: contains Base Maps, Live Feeds, Map Features and the Add Files button. *See more >*
- 
Fit to Map Extents: moves the map to fit all map features on your screen.
- 
Re-centre on My Location: this icon will change depending on the source of the location information.
 - 
ADS-B Location: an ADS-B receiver.
 - 
 - 
Bluetooth GPS Location: eg. the Garmin GLO, Bad Elf.
 - 
External App Location: a third party application (eg. a GPS simulator app).
 - 
Network Location: nearby Wi-Fi networks and cellular towers.
 - 
No Location: location unknown (eg. app does not have location permissions).
 - 
Map Properties: view map activity, export the map, download offline base layers. *See more >*
 - 
GPS Recording: Record a line using your GPS. *See more >*

1.5.2 Mapping & Features

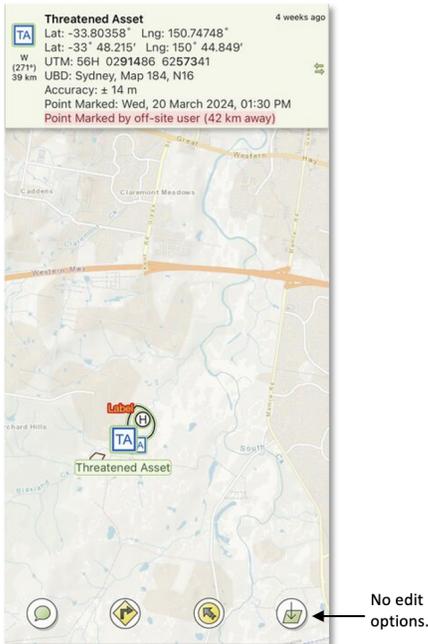
Features including points, lines, areas, labels and photos, can be added to the map if you are (1) sufficiently zoomed in and (2) not in Locked Mode.

Locked Mode

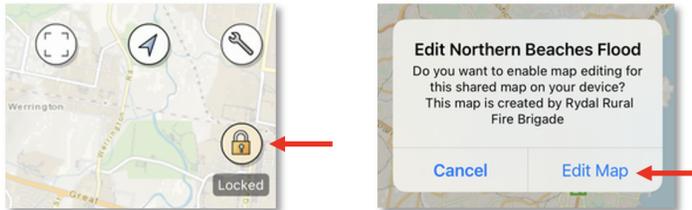
When a Shared Map *with features* is opened, it will default to Locked Mode. In Locked Mode, no edits can be made.



Features cannot be edited



- To edit the map, tap on the lock icon, then 'Edit Map'.



- To return to Locked Mode, leave the map and reopen it from the Shared Maps list.

Note: Minimising the FireMapper app (eg. for location tracking) **does not** Lock the map. It remains in Mapping Mode to ensure changes are tracked and saved.

Adding to the Map

The **Symbology Toolbar** contains all the symbology which can be added to the map. The toolbar only appears if (1) no features are selected and (2) you are sufficiently zoomed in, as you cannot edit the map at a statewide/country level. Swipe left and right to scroll through your list of feature types.



4 recently used symbols

All symbology

Note: See the *Configuring Symbology* Page for how to configure the symbology in your toolbar.

Points:

1. Select a **point type** from the bottom toolbar.



2. **Tap and hold** on the location you want to add your point, or use the **pin drop** to add the point to your GPS coordinates.



Lines:

1. Move the map to the area where you want to draw as you can not move the map while drawing the line.
2. Select a **line type** from the bottom toolbar.



3. Draw a line on the map by **dragging your finger** across the screen, or by using the  *record button*.
4. Line distance will appear at the top of the map. If you close the shape, the enclosed area will also appear for the line.



5. Tap the **tick**  button in the bottom left corner to save, or the **cross**  to cancel.

Areas:

1. Move the map to the area where you want to draw as you can not move the map while drawing the area.
2. Select an **area type** from the bottom toolbar. You can scroll left to right to access different feature types.

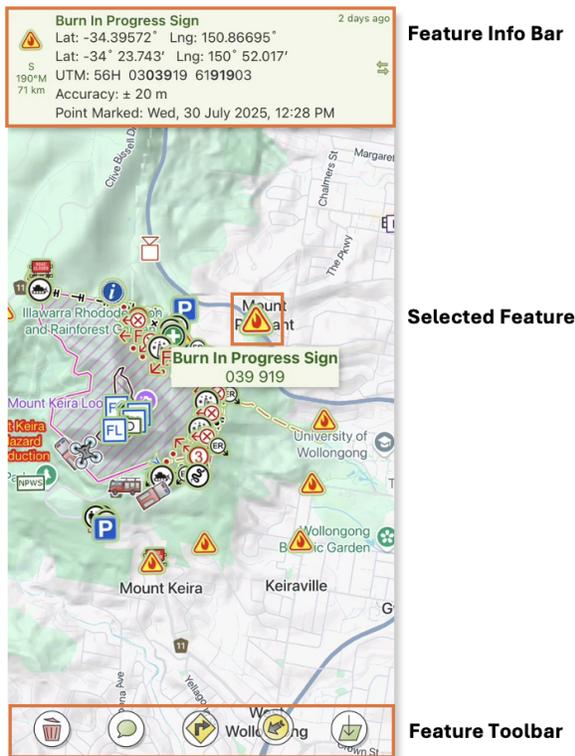


3. Drag your finger to **trace the perimeter** of the area on the map. The area will auto-close when you either cut your drawn perimeter with your finger or when you lift your finger off the screen.
4. The perimeter and area will be displayed at the top of the screen as you draw the area.
5. Tap the  **tick** button in the bottom left corner to save, or the  **cross** to cancel.

Note: If you are using a shared map and have auto-sharing enabled, the new feature will automatically be shared with other users on the same map.

Features

After a feature has been added to the map, it can be selected by tapping on it. Select the feature to **edit/delete** it, **view its information** and more.



The *Feature Toolbar* will appear at the bottom of the screen, and the *Info Bar* will appear at the top of the screen.

Feature Toolbar

The *Feature Toolbar* only appears at the bottom of the *Map Screen* whenever a feature is selected on the map. The buttons that are available in the bar are dependent on the selected feature type and if the feature is editable. The toolbar automatically disappears when a feature is unselected. The options on the Feature Toolbar will change depending on the type of feature selected.



Point Types



Area / Line Types



Delete: Deletes the selected feature.

Note: Deleted features can be restored. See Info Bar for more information.

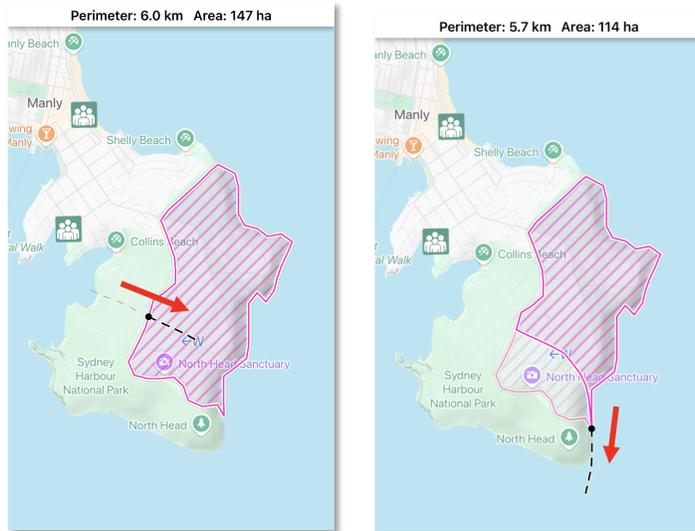


Edit: This functionality exists for LINES or AREAS only.

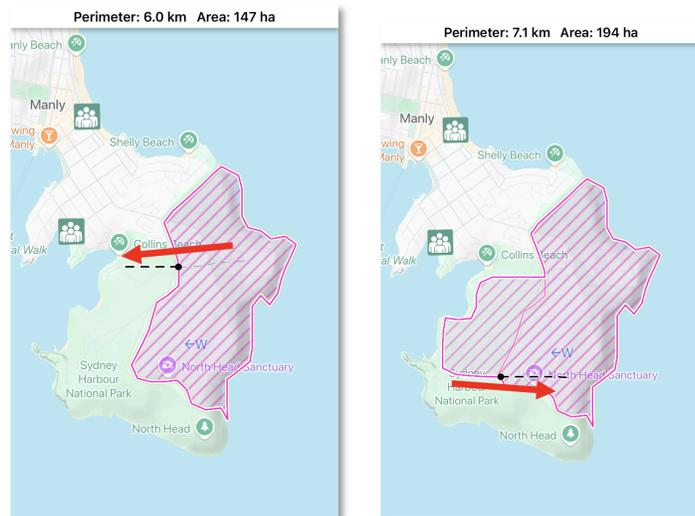
- **Lines:** Either end of the line can be moved. Tracing a line intersecting the existing line 2 times will replace that section of the line with your new geometry.



- **Areas:** Tracing a line intersecting the existing area 2 times will replace that section of the area with your new geometry. You can cut or add area.
 - **Cut:** Removes the selected area from the existing area.

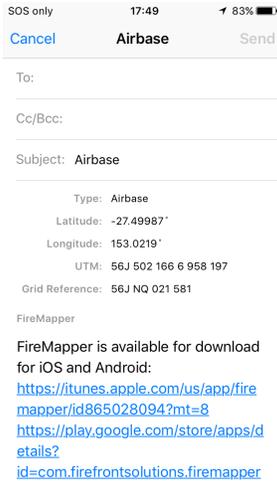


– **Add:** Adds the selected area to the existing area.

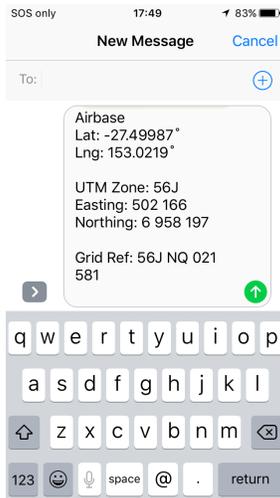


Email: Sends the selected feature as an email message. The email message includes a screenshot of the map and any GPS photos that are attached to the selected feature if available. This option is available for all map features. You can set the default email addresses for email messages in the *Main Menu->User Profile*.

Note: On iOS devices, this uses the Apple email client. You will need to have your email account configured in it for this to work.



Text: Sends the selected feature as a text message. The text message includes a screenshot of the map and any GPS photos that are attached to the selected feature if available. This option is available for all map features. You can set the default mobile numbers for text messages in the *Main Menu->User Profile*.



Rotate: Rotates the selected point by 45 degrees. This option is only available for directional point types (eg. fire/wind direction).

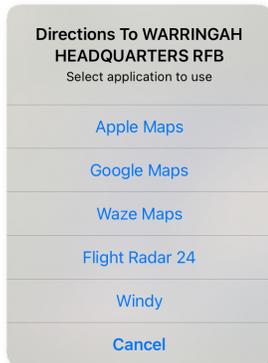


Flip: Flips the selected line style. This option is only available for asymmetrical lines (eg. control lines, back-burns).

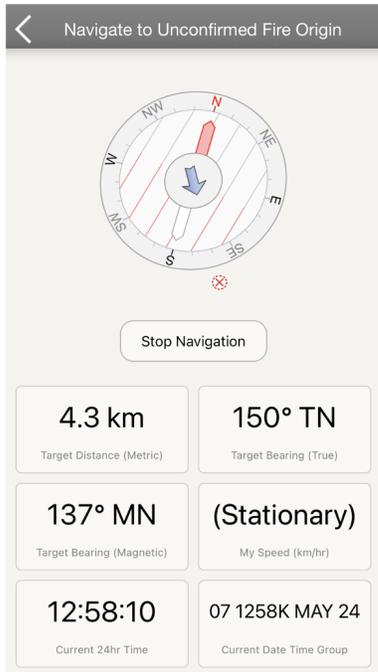


Directions: Opens the selected location with a navigation application. These applications are supported:

- Google Maps (turn by turn navigation software)
- Apple Maps (turn by turn navigation software, iOS only)
- Open Street Maps (mapping website)
- Waze Maps (turn by turn navigation software)
- Flight Radar24 (flight tracking software)
- Windy (weather)
- Foreflight (aviation/flight planning software, iOS only)
- OzRunways (aviation/flight planning software, iOS only)



Navigate With FireMapper: Navigates in a straight line to the selected point in FireMapper. The button will point in the direction of the selected feature using the internal compass. This is handy if you need to know the approximate direction of the feature on the map without having to start a navigation.



Note: This functionality is not available yet on the Android.



Sync Feature: Shares the selected feature on the map. This button is only available for features that have not been shared yet. If the map is currently a private map the map will be converted into a shared map (however only the selected feature will be shared). You can share all features on the map via the *Map Export Screen*.

Feature Toolbar

The Feature Toolbar holds options to edit, delete, navigate to and share the feature. *See more >*

Info Bar

The Info Bar displays a summary of the selected feature's details. Tapping it will show the **expanded details screen**, which allows you to view additional information about the selected feature and also edit fields such as the feature name and feature type.

 **Burnt Area** X

AREA INFORMATION

Perimeter
1.2 km

Area
4 ha

VERSION INFORMATION

Shared Feature ID
ID-329226

Source
Hand Drawn Line

Line Drawn
Tue, 7 May 2024, 11:40 AM
5 sec ago

AUTHOR INFORMATION

Author Activity
Stationary

Device Name
iPhone

Device Type
iPhone 13

NAME:
Last Known Position

ADDRESS:
Address

NOTES:

POINT TYPE:
Last Known Position

VERSION INFORMATION
Shared Feature ID
ID-29328
Source
Imported KML File

Note: Ensure you are not in Locked Mode when trying to edit the feature details.

1.6 Symbology

The available symbology in FireMapper Enterprise is determined by your organisation configuration.

1.6.1 Configuring Symbology

The *Symbology Toolbar* contains symbols that can be added to a map. It only contains symbology that you have turned on. You can therefore ensure that your symbology toolbar is personalised by leaving out irrelevant symbology sets.

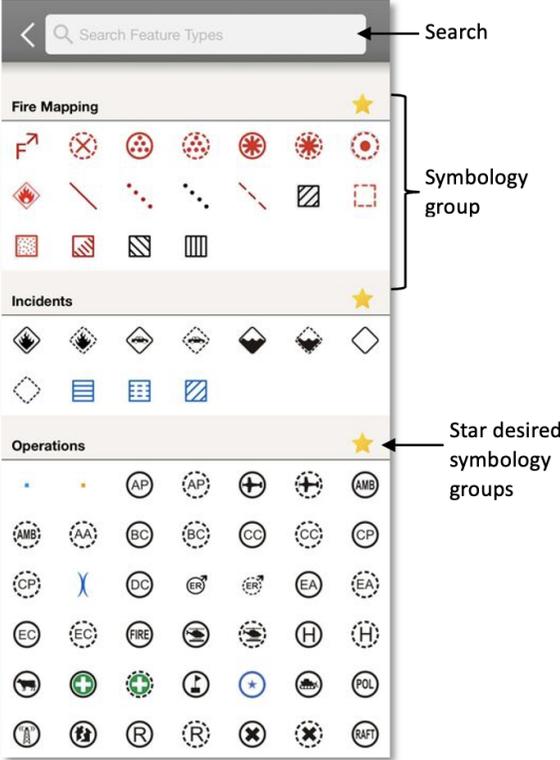
1. Open symbology configuration page.

- Open a map and zoom until the Symbology Toolbar is visible. Tap the rightmost icon.



2. Choose symbology.

The available symbology is grouped based on type and context. Starring or ‘turning on’ a group will add it to the symbology toolbar that you use in the map view. You may search for specific symbols or symbol groups using the search bar.



1.7 Map Properties

The *Map Properties* screen allows you to edit the metadata for your map.

<
Shared Map Properties

MAP NAME:
Search and Rescue Demo Map CLEAN

MAP TYPE:
Search & Rescue

MAP STATUS:

 Map Synchronised
Last Updated: 05:17:37 PM

 Online Tracks Downloaded: 05:17:37 PM (latency: 0.0 sec interval: 10.1)

Base Layers
Export Map

WEDNESDAY, 30 JULY 2025

	Snakes Wed, 30 July 2025, 01:25 PM SSW 32 km Grid Ref: 56H LH 237 260	1 day ago ↕ ↕ Shared
	Point #2 Wed, 30 July 2025, 01:24 PM SSW 33 km Grid Ref: 56H LH 232 250	1 day ago ↕ ↕ Shared
	Clue (Relevant) Wed, 30 July 2025, 01:24 PM SSW 32 km Grid Ref: 56H LH 229 268	1 day ago ↕ ↕ Shared
	DELETED - Search Area - Planned Wed, 30 July 2025, 01:24 PM SSW 32 km Perimeter: 3.1 km Area: 78 ha	1 day ago ↕ ↕ Shared
	Point #1 Wed, 30 July 2025, 01:23 PM	1 day ago ↕ ↕

- **Map Name:** The name of the current map. You can only edit the *map name* for private maps. The map name field is read-only for shared maps after they are created.

MAP NAME:

- **Map Type:** This can only be modified via the FireMapper Portal for Shared Maps. Please see the [Portal Shared Maps documentation](#) for more information.

MAP TYPE:
Search & Rescue

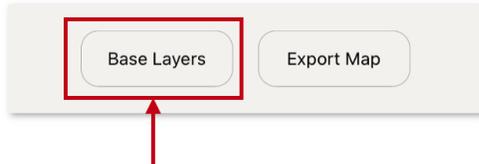
- **Activity List:** All changes to the map are listed here, with their synchronisation status. Just like on the shared map, green features indicate successful sync, and yellow indicates a sync in progress.

Note: Shared Maps can contain a combination of private and shared features if *Auto Sharing* has been disabled. A private feature is a feature that has been added but not shared, and is therefore not accessible by other users.



1.7.1 Offline Base Layers

Small regions of base maps can be downloaded for offline use. This allows users to access map data without an internet connection. *Read more here.*

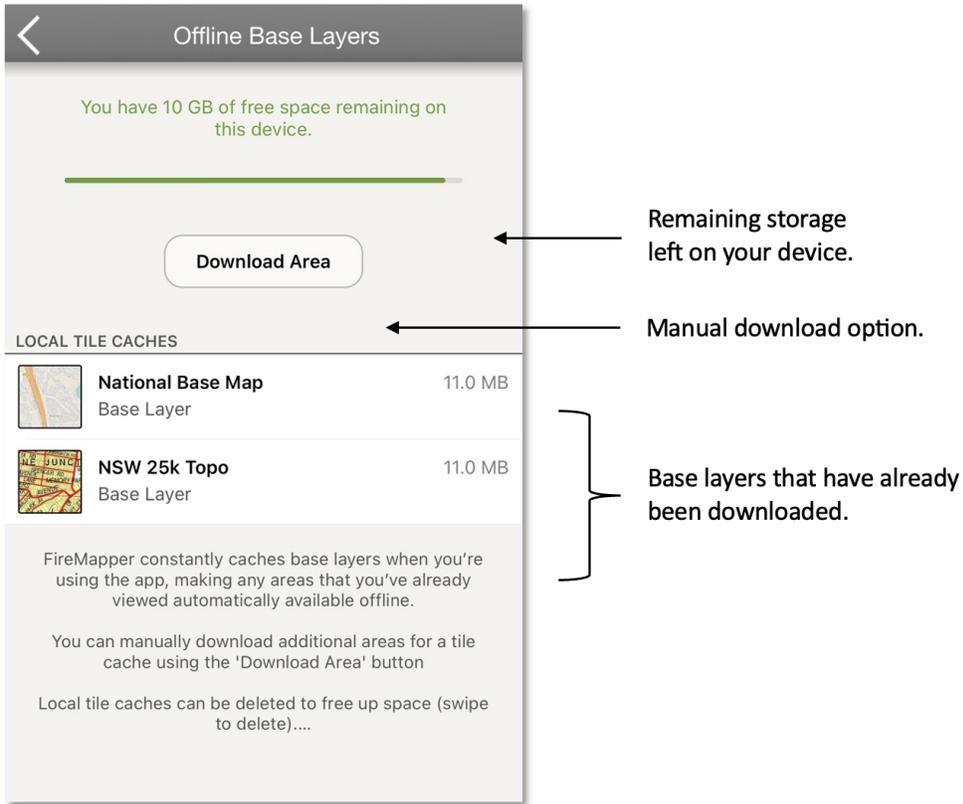


Offline Base Layers

The *Offline Base Layers* Screen lists all the non Google base layers stored on your device and the amount of storage space they're using.

Base layers are stored locally on your device for performance reasons and to improve offline availability. There are 2 ways that this happens. FireMapper downloads and stores tiles as you view the map in the map screen, and users have the ability to bulk download all tiles within a certain area.

Each base layer is stored as a folder as a Compact Cache V2 in the FireMapper documents directory. There is a layer.json file in each base layer directory that contains the configuration for the offline layer.



Downloading Base Layers

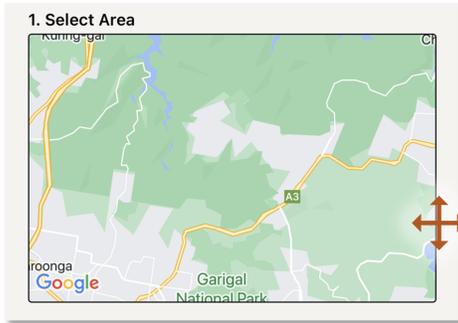
1. Tap the **Base Layers** button on the *Map Properties Screen*



2. Tap the **Download Area** button on the Base Layers Screen.



3. Move the map inside the Select Area box to the region that you would like to download base layers for.



4. Tap on the Base Layer(s) that you would like to download to the device. Only layers that are available for the current map extents can be downloaded.



The download may take a few minutes to complete. You can download multiple layers at the same time. FireMapper will download the tiles to the local device for the current map extents. There is a limit on the number of tiles that can be downloaded for each layer to limit the size of the download, especially for large areas. FireMapper will only download a maximum of 800 tiles per any one zoom level.



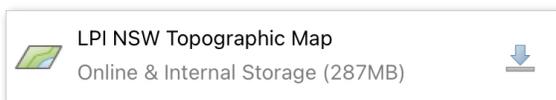
Wait for a download complete message before closing the base layer screen. If you close the base layer screen while the download is in progress, the download will be aborted.



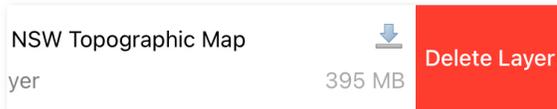
Deleting Base Layers

You may want to delete a base layer if you are running out of local storage on the device. You can also delete base layers generated from imported PDFs.

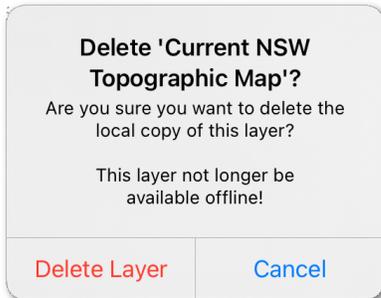
1. **Swipe right to left** on the base layer you want to delete on iOS. On Android press and hold on the base layer that you want to delete.



4. Tap the red **Delete Layer** button on the right side base layer item.



5. Tap **Delete Layer** button on the dialog to delete the local copy of the base layer. This will free up any space used by the layer. You can not undo this operation!



Copying Base Layers

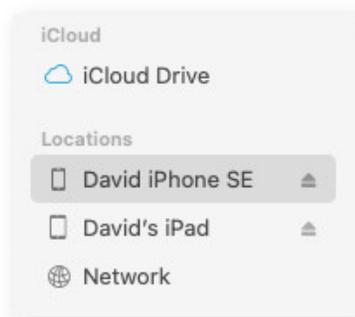
Copying Base Layers with FireMapper iOS and MacOS

The base layers can be accessed from FireMapper iOS using a MacOS computer. This is useful if you want to copy base layers between devices.

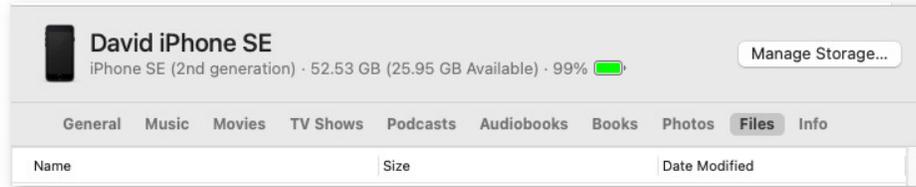
1. Connect your iPhone/iPad to your MacOS computer.
2. Open the **Finder** app on your MacOS computer.



3. **Select your iOS device** from the left side bar in Finder window.



4. **Select the Files tab** at the top right corner of the Finders window.



5. **Select FireMapper Enterprise** to view the list of base layers. Some of these base layers may be autogenerated by FireMapper Enterprise as you view the map. Each base layer is stored as a compact cache v2. Ignore the inbox folder, this is a special folder for imported maps.

Name	Size	Date Modified
FireMapper Enterprise		
current_nsw_topographic_map	575.5 MB	9 Jan 2021 at 11:43 am
Inbox	199.8 MB	4 Jun 2021 at 10:26 pm
lpi_nsw_topographic_map	234.3 MB	8 Jan 2021 at 2:11 pm
open_topographic_map	102.3 MB	9 Jan 2021 at 1:17 pm
qtopo_map	4 MB	15 Jan 2021 at 1:56 pm

Download Base Layer Folder from iPhone/iPad to Mac OS

To download a folder, drag it from the Finder window to your desktop (or another folder). This may take a few minutes to complete, MacOS will not display any status while the download is occurring which can be confusing. The folder will appear on your desktop after the download is complete.

Upload Base Layer Folder from Mac OS to iPhone/iPad

Drag a previously downloaded folder from the desktop to the FireMapper application in the finder window. This may take a few minutes to complete, MacOS will not display any status while the download is occurring which can be confusing. The folder will appear in the FireMapper base layer group after the upload is complete.

This process can be used to copy base layers between iOS devices.

Delete Base Layer Folder

Right click on the base layer folder under the FireMapper application and select delete. This will permanently delete the folder from the device.



Copying Base Layers with FireMapper iOS and Windows PC

The base layers can also be accessed from FireMapper iOS using a Windows PC using Apple iTunes application.

1. **Connect your iPhone/iPad** to your Windows computer.
2. **Open the iTunes** app on your Windows computer.
3. **Select the iPhone/iPad button** near the top left of the iTunes window.
4. **Click File Sharing**, select an FireMapper in the list

Copying Base Layers with FireMapper Android and MacOS

You will need a copy of Android File Transfer application to transfer files between MacOS and an Android device. Your computer must be using Mac OS X 10.5 and up.

1. Download and Install Android File Transfer on your computer
<https://www.android.com/filetransfer/>
2. Open **Android File Transfer**. The next time that you connect your Android device, it opens automatically.
3. Unlock your Android device.
4. Connect your Android device to your computer with a USB cable
5. On your Android device, tap the **Charging this device via USB** notification.
6. Under “Use USB for,” select File Transfer.
7. An Android File Transfer window will open on your computer.
8. If your Android device has an SD card reader, there may be two locations that your can store base layers; one using internal storage on the device and the other using external storage on the SD card.
9. Copy the base layer folders into the **Android/data/com.firefrontsolutions.firemapper.enterprise/files/base_layers/** or **Android/data/com.firefrontsolutions.firemapper/files/base_layers/** depending on which version of FireMapper you are using. Due to Android restrictions, FireMapper is not able to read outside these directories.

Copying Base Layers with FireMapper Android and Windows PC

1. Connect your Android device to your computer with a USB cable.
2. On the Android device, open the USB Preferences notification and update “Use USB for” to “File transfer”.
3. Windows will display the Android device under “This PC” in File Explorer.
4. If your Android device has an SD card reader, there will be two locations that your can store base layers; one using Internal storage on the device and the other using External storage on the SD card.
5. Open “Internal storage” (or “SD Card”, or whatever your device calls its external storage) on the device and then browse to **Android/data/com.firefrontsolutions.firemapper.enterprise/files/base_layers/**.
6. You will see a folder for each base layer on the device; open the base layer you want to copy files into, and then use the File Explorer to copy into the “_alllayers” folder. The contents of the “_alllayers” folder are a series of folders named “L09”, “L10”.

Create Your Own Tile Cache

FireMapper will automatically create tile caches on the map as you use the application. There is a folder for each base layer that is automatically generated as you view the map.

Before creating your own tile cache, a good starting point is to copy an existing tile cache off the device.

Tile Cache Format

FireMapper only supports a Compact Cache v2 format with the following configuration:

- Esri Compact Cache V2 (More details: <https://github.com/Esri/raster-tiles-compactcache>)
- Raster tiles only (Vector tiles are not supported)

- PNG, JPG or WEBP compression only
- 256 x 256 tile size only
- Web Mercator projection (EPSG 3857) only
- Standard Web Mercator levels of details and tile for the cache (Example: https://github.com/Esri/raster-tiles-compactcache/blob/master/sample_cache/conf.xml)

Layer Configuration File

You will need to add a **layer.json** in the layer folder. This file is required for the FireMapper application to discover the tile cache folder.

This file is specific to FireMapper and is not created by third party tools. It is a JSON file with configuration information for the base layer. This needs to be a valid JSON file. You can use an online JSON validator to ensure that the file is a valid JSON file to check the file. The last item in the JSON dictionary must not end with a comma.:

```
{
  "title": "LPI NSW Topographic Map",
  "min_zoom": 5,
  "max_zoom": 19,
  "priority": 10,
  "min_latitude": -36.39,
  "max_latitude": -28.100,
  "min_longitude": 141,
  "max_longitude": 153.599
}
```

- **title** - the name for the base layer that is displayed in the app
- **min_zoom** - the minimum zoom level that the layer is visible in FireMapper. This should be the smallest L<zoom> folder in the cache.
- **max_zoom** - the maximum zoom level that the layer is visible in FireMapper. This should be the largest L<zoom> folder in the cache.
- **priority** - the order that the layer appears in FireMapper. Use 5 if you want it to be the default layer in FireMapper. Use 150 if you want it to be one of the last layers to appear in the list. Do not use anything less than 3.
- **min_latitude** - this is the minimum latitude extents covered by the tile cache.
- **max_latitude** - this is the maximum latitude extents covered by the tile cache.
- **min_longitude** - this is the minimum longitude extents covered by the tile cache.
- **max_longitude** - this is the maximum longitude extents covered by the tile cache.

Tile Folder Name

Use lower case letters and underscores only for the base layer folder name (e.g. lpi_nsw_topographic_map). This should be the same as the title (but with lower case letters and underscores for spaces).

Do not use the same folder name as an existing FireMapper base layer. Each layer must have a different name.

Converting a TPKX File

You can import a TPKX tile into FireMapper iOS and it will automatically be converted into a compact cache on the device.

It is also possible to manually create the compact cache layer format required by FireMapper using the following steps.

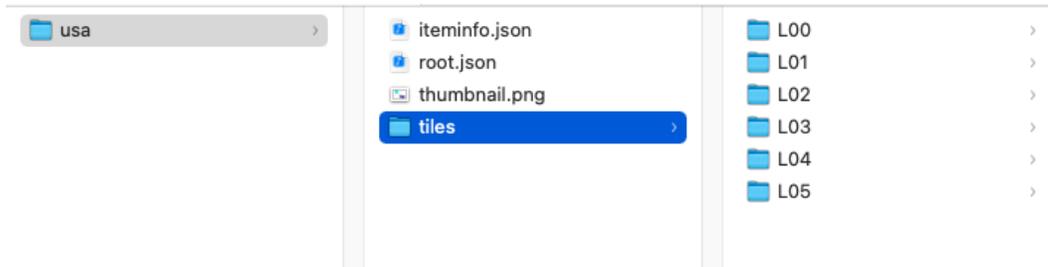
1. Create a TPKX with the following settings:
 - Raster Tiles (Vector tiles are not supported)
 - PNG or JPG compression for the tiles
 - 256 x 256 Tile size
 - Web Mercator projection only (EPSG 3857)

<https://github.com/Esri/tile-package-spec/blob/master/Sample%20TPKX%20Files/Usa.tpkx>

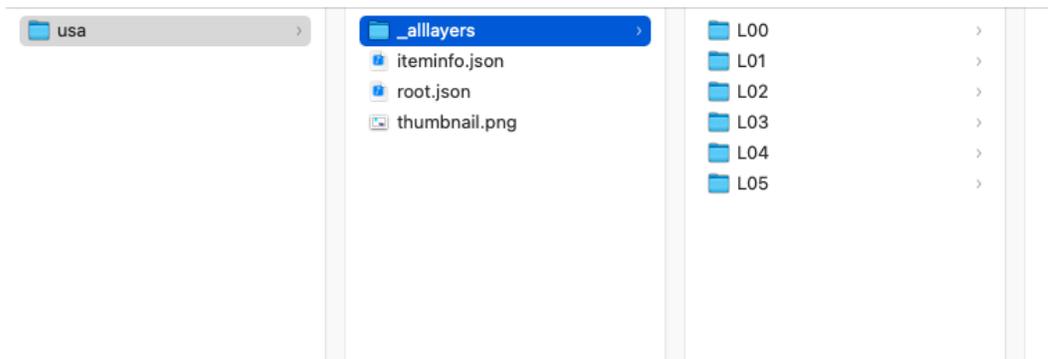
2. Rename the generated TPKX file from a .tpkx file extension into a .zip file extension. Use a lower case name for the file (e.g. usa.zip)



3. Extract the contents of the zip folder



3. Rename the **tile** folder to **_alllayers**.

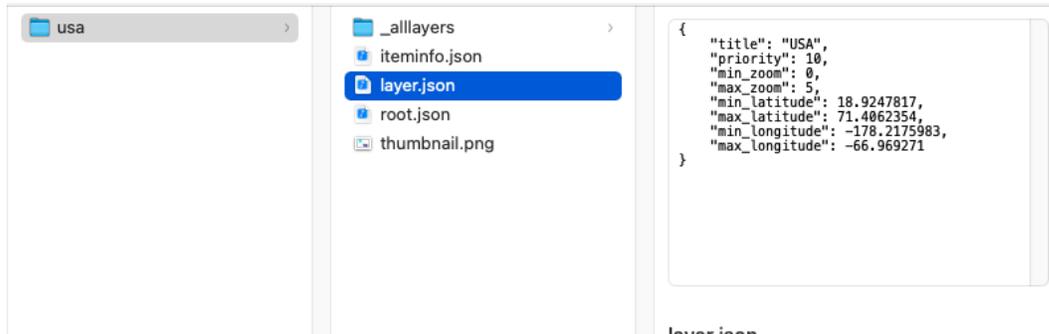


4. Add a **layer.json** file in the same directory as the **_alllayers** folder. This file is required by FireMapper and the base layer will not be loaded into FireMapper without it.

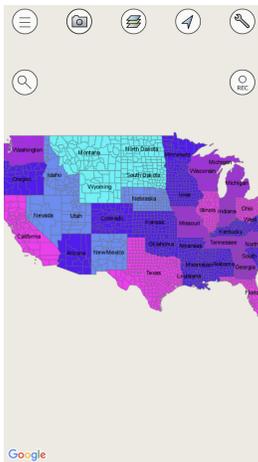
Use a text editor to create the layer.json. Make sure the extension is '.json'.

Following is sample layer.json that matches the sample USA.tpkx file:

```
{
  "title": "USA",
  "priority": 10,
  "min_zoom": 0,
  "max_zoom": 5,
  "min_latitude": 18.9247817,
  "max_latitude": 71.4062354,
  "min_longitude": -178.2175983,
  "max_longitude": -66.969271
}
```



- Copy the base layer folder (e.g. USA) onto the device.
- Restart FireMapper. FireMapper only detects new layers when the application is restarted. The new layer should be visible in the Base Layer screen.



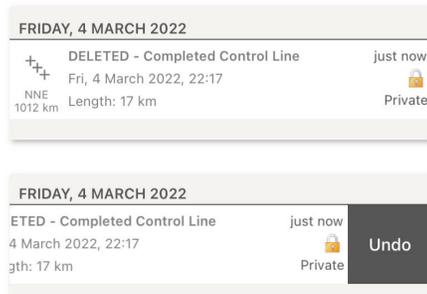
FireMapper does not currently use the iteminfo.json, root.json, thumbnail.png or config.xml files. It does not matter if these files exist or not in the layer folder.

1.7.2 Exporting Maps

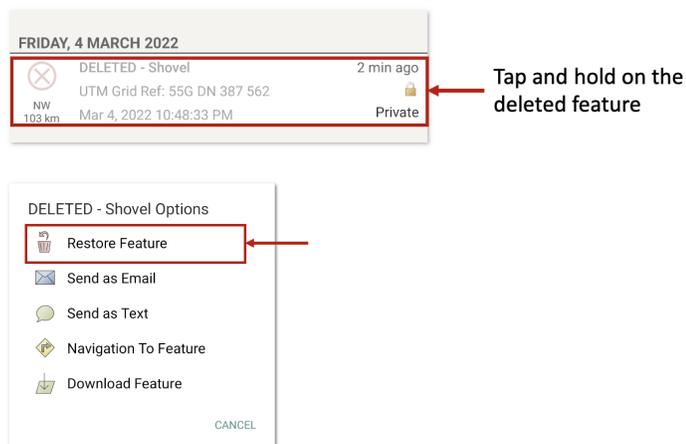
Maps can be exported to share with other users or for backup purposes. This is useful for creating a copy of the map that can be shared or stored externally. [Read more here.](#)

1.7.3 Restoring Deleted Features

- On **iOS devices**, swipe right to left on the deleted feature, then tap the ‘Undo’ button to restore the deleted feature.



- On **Android devices**, long press on the deleted feature and tap ‘Restore Feature’ from the popup menu.

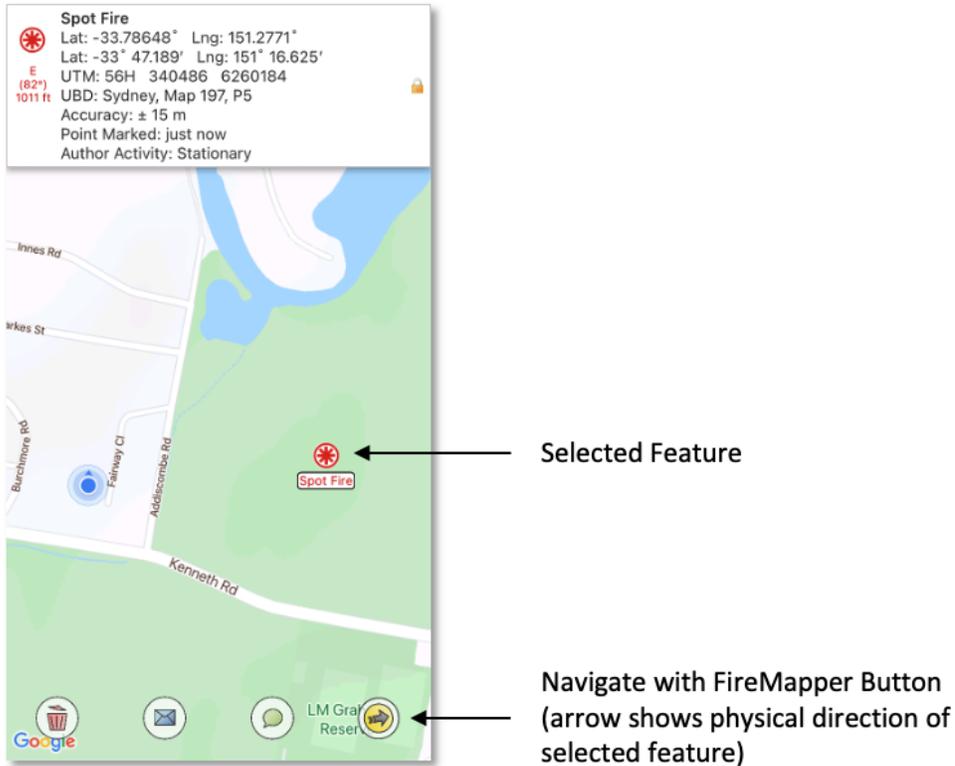


1.8 Navigate to Feature

You can use FireMapper to navigate to a location using the internal compass.

Note: This functionality is not implemented yet on the Android. This is on the product roadmap for Android. Fields such as bearing and estimated time remaining will also be added in future iOS releases.

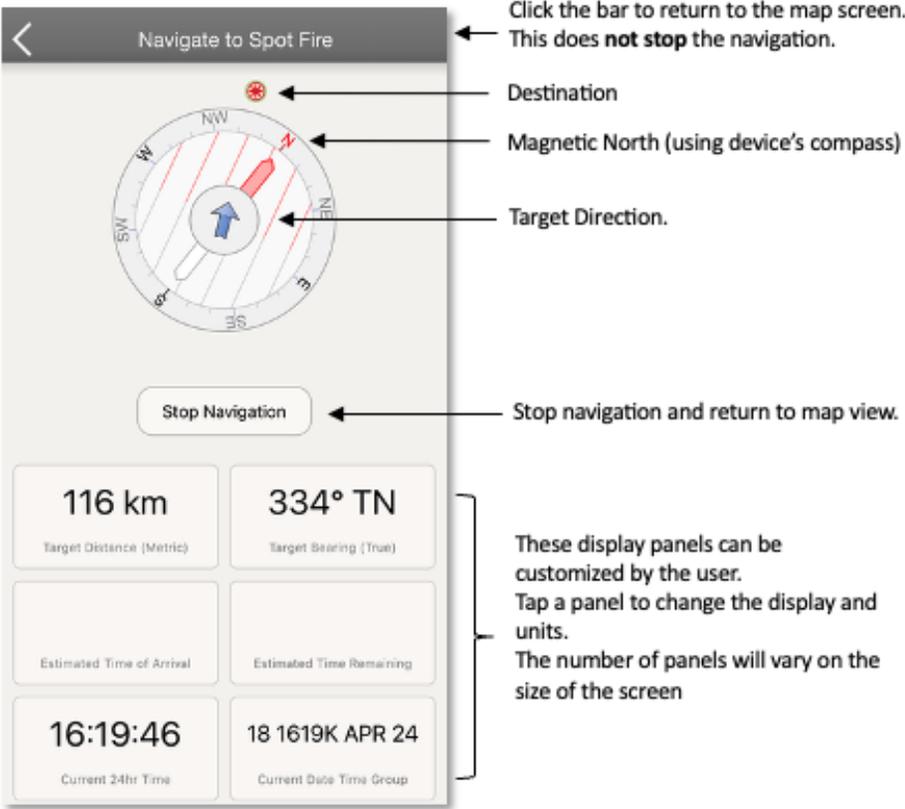
1. Select a **Point or Photo** on the *Map Screen*.



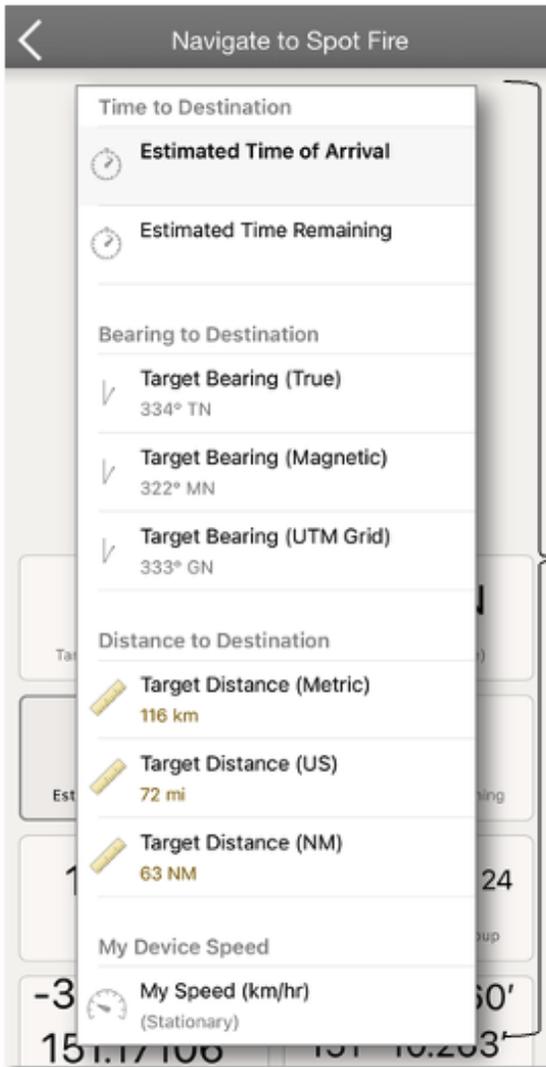
2. Tap the **Navigate using FireMapper** button in the bottom toolbar. The yellow/black arrow button will point the approximate physical direction of the target. This is handy if you want to know the direction of the selected feature on the map without starting the navigation tool.



3. Move the device in a figure 8 pattern in the air a few times to help calibrate the digital compass and reduce the magnetic error.



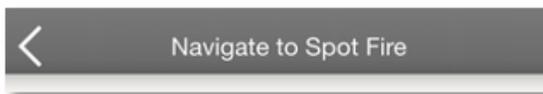
5. On the navigation screen, you can tap any display panels you would like to change.



Select the field and units that you want to display on the panel.

Scroll up and down to see the complete list of field types

5. You can return the *Map Screen* without stopping the navigation using the top bar.



6. A blue dotted line will show the course on the map view. The arrow on the left side will show the physical direction and distance to the destination. Tap the arrow to return to the navigation screen.
7. Tap the **Stop Navigation** button to stop the navigation and return to the map.



1.9 Map Search

The Search screen in a FireMapper map is an intelligent search that allows you to search for coordinates, nearby features, addresses and more.

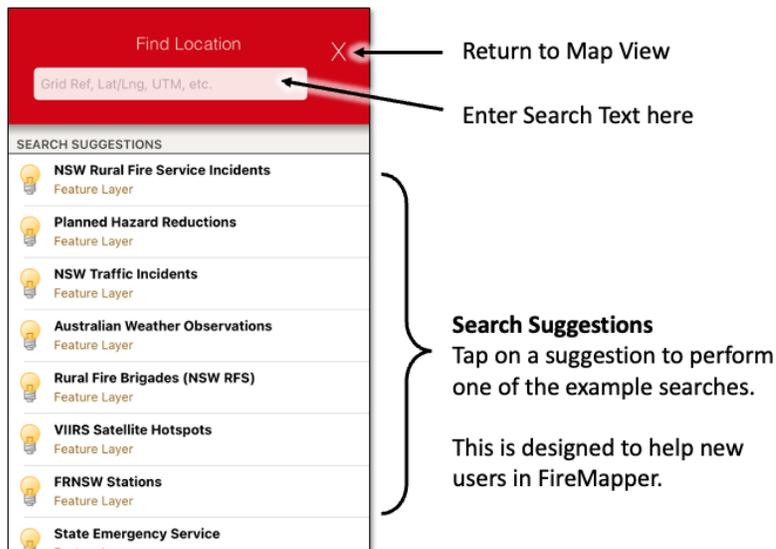
How to perform a location search:

1. Tap the **Search** button on the left side of the *Map Screen*. The search button is only visible when no features are selected on the map

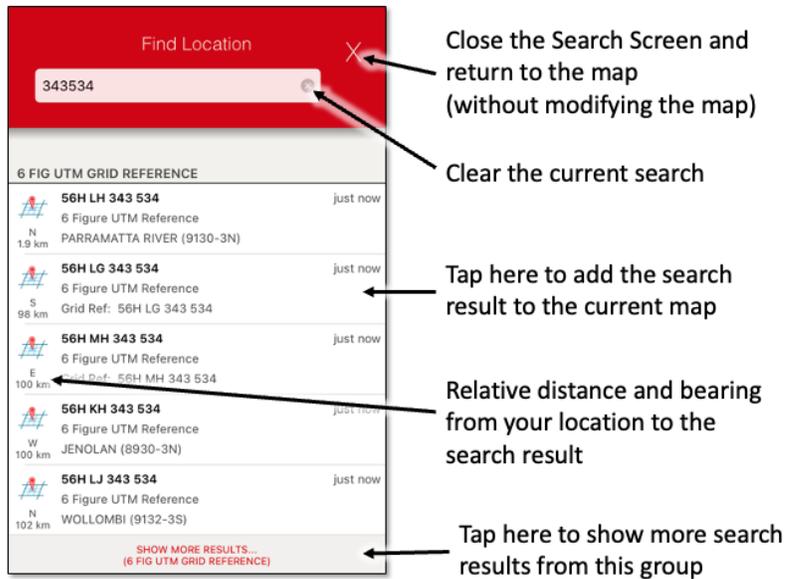


Search Button

2. **Enter the search text** in the text box at the top and tap Enter. This is a list of search suggestions when no search text is entered.



3. **Tap the search result** you want to add/view on the map. If the feature does not exist yet, a new point will be added to the map.

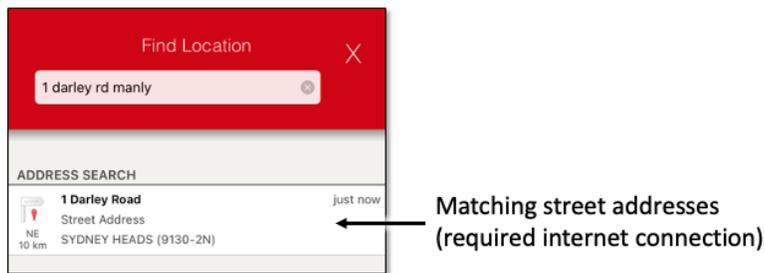


1.9.1 Address Search

The address based search requires an internet connect to work.

Examples:

- Street Address (e.g. 1 Darley Rd, Manly)
- Suburb (e.g. Manly)
- Intersection (e.g. Darley Rd Marshall St)
- State & Postcode (e.g. 2095 NSW)



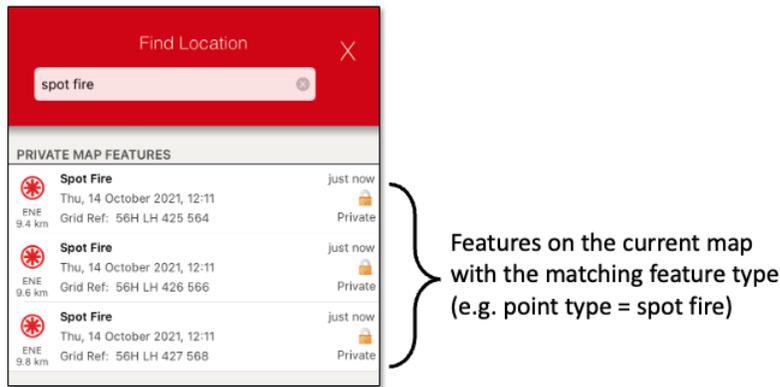
1.9.2 Map Feature Search

You can search for features on the current private or shared map by feature type, feature name or feature notes. This is useful for quickly finding an existing feature on the current map.

Examples:

- Spot Fire
- Photo
- Asset

- Fire Edge



1.9.3 Shared Feature ID

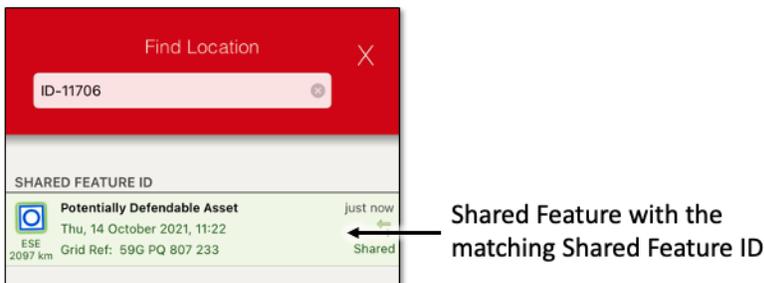
You can search for a shared feature in FireMapper by its shared feature ID. This is a number with the prefix 'ID-' to avoid confusion with grid references.

This is useful for referring to a shared feature when multiple users are viewing the same shared map in FireMapper.

The ID prefix is optional and is not case sensitive when performing a search. Use the ID- or id prefix to avoid having any grid references in the results.

Examples

- ID-11706
- id11706
- 11706



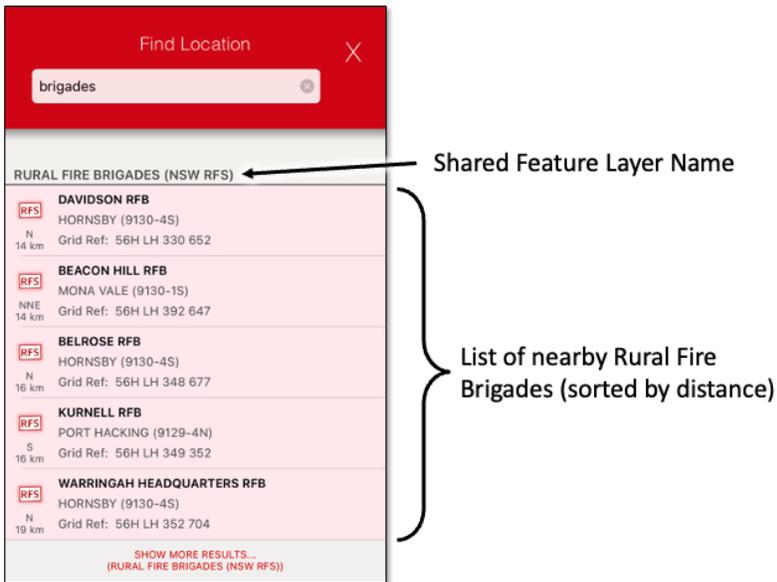
1.9.4 Shared Feature Layers

You can search for features on shared feature layers and incident feeds in FireMapper. The available feature layers depends on your organisation configuration.

Examples

- Incidents
- Weather
- Brigades
- Hotspots

- Cameras
- Road works
- MVA
- FRNSW



1.9.5 4 Figure Grid Reference

As four figure grid references repeat every 100km, so make sure you pick the correct location from the result list.

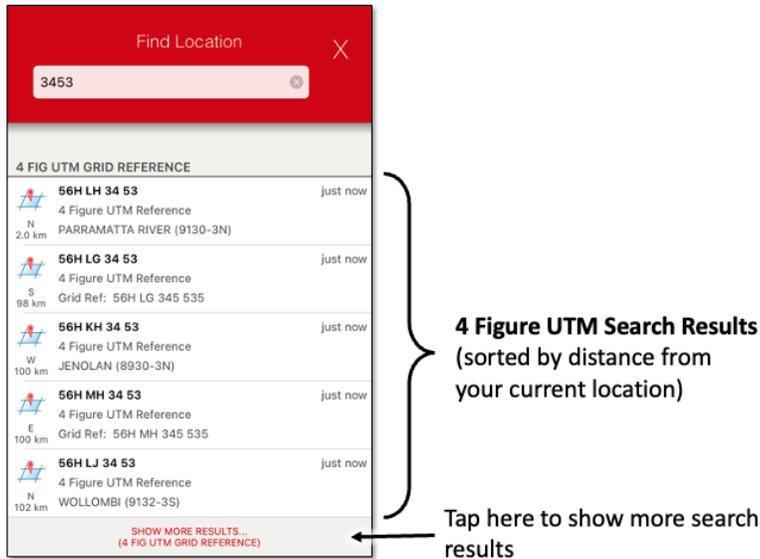
You also provide the UTM Zone (e.g. 56H) and/or digraph to refer to a specific grid reference. 4 Figure grid references repeat every 100km north/south/east/west.

Spaces and dashes in the four grid reference are optional.

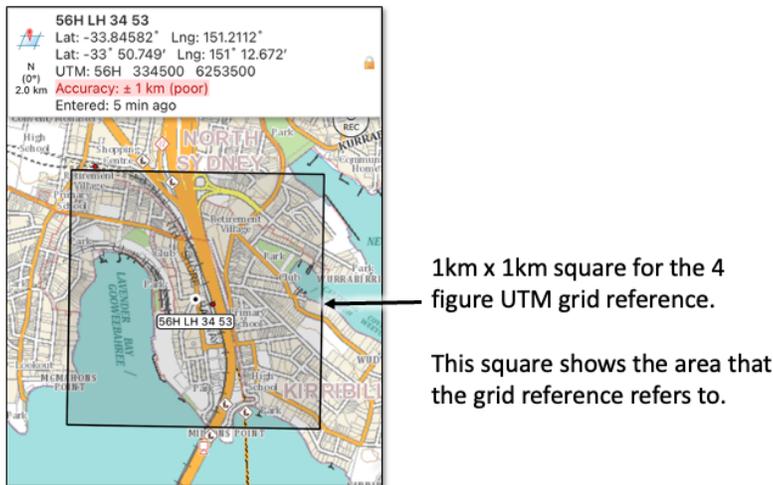
Due to the limited resolution of 4 figure grid references, most users will instead use either 6 or 8 figure grid references.

Examples:

- 3453
- 34 53
- 34-53
- LH 3453
- LH 34 53
- 56H LH 3453
- 56H LH 34 53



A four figure grid reference has a low accuracy of 1km by 1km. FireMapper will show the square that the four figure grid reference refers to when the point is selected on the map.



1.9.6 6 Figure Grid Reference

As six figure grid references repeat every 100km, so make sure you pick the correct location from the result list.

You also provide the UTM Zone (e.g. 56H) and/or digraph to refer to a specific grid reference. 6 Figure grid references repeat every 100km north/south/east/west.

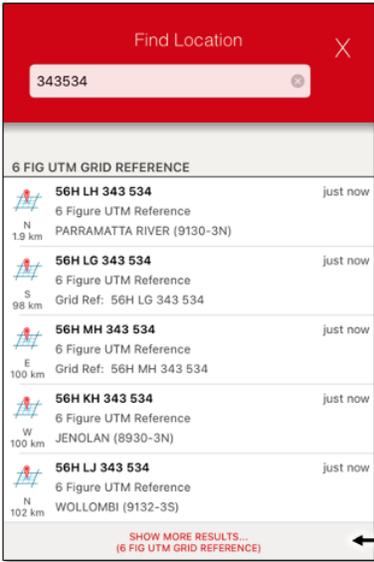
Spaces and dashes in the six figure grid reference are optional.

6 Figure grid references are commonly used by ground based users.

Examples:

- 242534
- 242 534
- 242-534

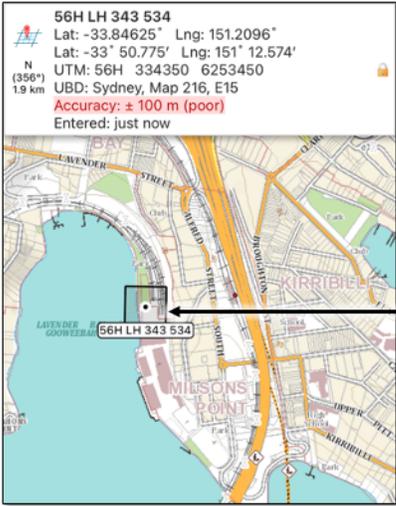
- LH 242534
- LH 242 534
- LH 242-534
- 56H LH 242534
- 56H LH 242 534
- 56H LH 242-534



6 Figure UTM Search Results (sorted by distance from your current location)

Tap here to show more search results

A six figure grid reference has a resolution of 100m by 100m. FireMapper will show the square that the six figure grid reference refers to when the point is selected on the map.



100m x 100m square for the 6 figure UTM grid reference.

This square shows the area that the grid reference refers to.

1.9.7 8 Figure Grid Reference

A eight figure grid reference has a higher resolution of 10m by 10m.

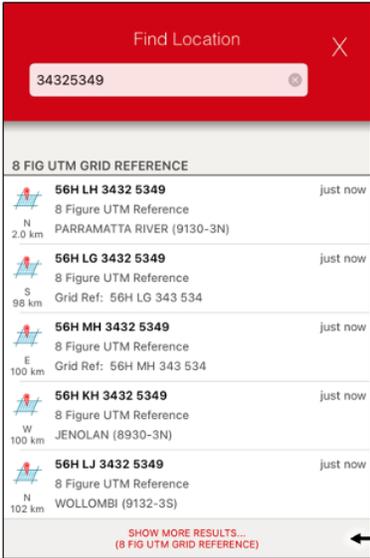
When searching using a 8 figure grid reference, you can also provide the UTM Zone (e.g. 56H) and/or digraph to referer to a specific grid reference. If you don't provide a UTM Zone or digraph, FireMapper will return a collection of matching grid references near your location, as each grid reference repeats every 100km.

Spaces and dashes in the eight figure grid reference are optional.

8 Figure grid references are used by ground based users when a higher level of accuracy is required.

Examples:

- 34325349
- 3432 5349
- 3432-5349
- LH 34325349
- LH 3432 5349
- LH 3432-5349
- 56H LH 34325349
- 56H LH 3432 5349
- 56H LH 3432-5349



8 Figure UTM Search Results
(sorted by distance from
your current location)

Tap here to show more search
results

1.9.8 10 Figure Grid Reference

10 Figure grid references repeat every 100km north/south/east/west and has a resolution of 1m x 1m.

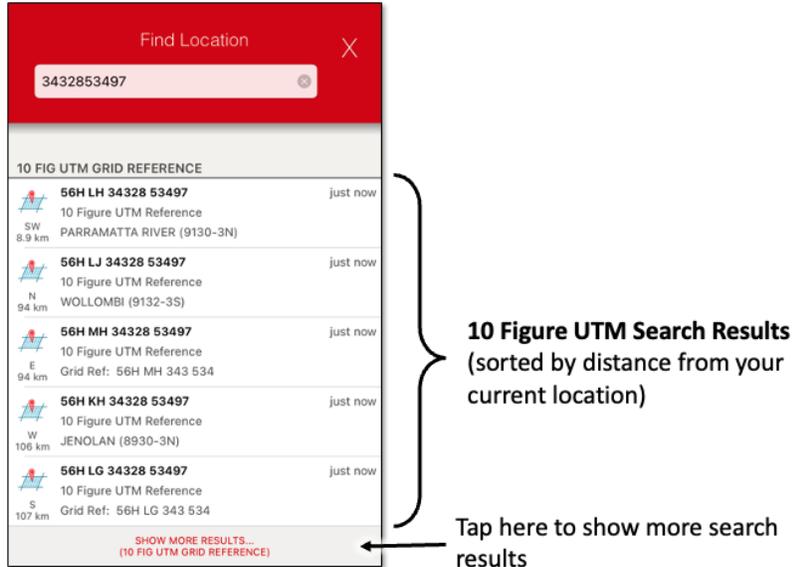
The first five digits in the grid reference refers to the easting in metres and the last five digits refers to the northing in metres. To convert an easting/northing into a 10 figure grid reference, use the last 5 figures of the easting and the last 5 figures of the northing.

When searching using a 10 figure grid reference, you can also provide the UTM Zone (e.g. 56H) and/or digraph to referer to a specific grid reference. If you don't provide a UTM Zone or digraph, FireMapper will return a collection of matching grid references near your location, as each grid reference repeats every 100km.

The spaces and dashes in the ten figure grid reference are optional.

Examples:

- 3432853497
- 34328 53497
- 34328-53497
- LH 3432853497
- LH 34328 53497
- LH 34328-53497
- 56H LH 3432853497
- 56H LH 34328 53497
- 56H LH 34328-53497



1.9.9 14 Figure Grid Reference

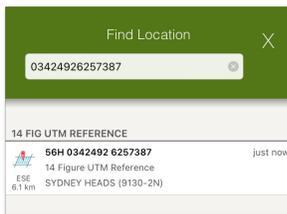
14 Figure references have an accuracy of 1m x 1m. This is a unique location in a UTM zone band (56N, 56S, 55N, 56S etc.). FireMapper will use the current device location to determine the current UTM zone to use.

In a 14 Figure reference, the first 7 figures is the easting and the last 7 figures is the northing. In order to have 7 figures for the easting, a zero is added at the start of the easting to get 14 figures.

The leading 0 is optional when searching for using a 14 Figure Grid Reference.

Examples:

- 03424926257387
- 03424926-257387
- 0342492 6257387
- 3424926257387
- 3424926-257387
- 342492 6257387



1.9.10 Easting/Northing

An easting/northing is used to uniquely identify a location inside a specific UTM zone. FireMapper will use your current location to determine the UTM zone, if only an easting and northing are provided. Sometimes an easting is written with a leading 0.

Examples:

- *[Easting] [Northing]*
- 398 313, 6 260 424
- 398 313,6 260 424
- 398313, 6260424
- 0398313, 6260424
- 0398313E, 6260424N
- 0398313 E, 6260424 N
- 0398313 mE, 6260424 mN
- 0398313mE, 6260424mN
- 398313, 6260424
- 0398313 6260424
- 0398313E 6260424N
- 0398313 E 6260424 N

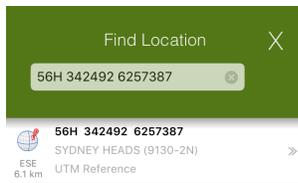
- 0398313 mE 6260424 mN
- 0398313mE 6260424mN
- 0398313,6260424
- 398313,6260424
- 398313E 6260424N

1.9.11 UTM Reference

A UTM reference has a high accuracy of 1m x 1m. This is a unique location which refers to a single location on the Earth's surface

Examples:

- 56H 342492 6257387

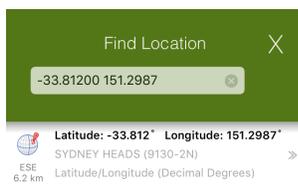


1.9.12 Decimal Degrees (DD)

Latitude/Longitude expressed in decimal degrees. This is a unique location which refers to a single location on the Earth's surface. Latitude/Longitude is commonly used by aircraft as they have to operate over long distances and can easily be entered by the pilot.

Examples:

- *[Latitude] [Longitude]*
- -33.81200 151.2987
- 33.81200S 151.2987W
- S33.81200 W151.2987
- -33.81200° 151.2987°
- 33.81200° S 151.2987° W
- -33.81200deg 151.2987deg
- -33.81200d 151.2987d



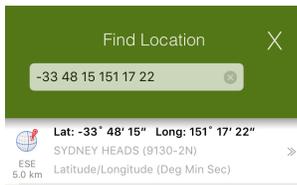
1.9.13 Degrees Decimal Minutes (DDM)

Latitude/Longitude expressed in degree decimal minutes. This is a unique location which refers to a single location on the Earth's surface

Degrees Minutes are commonly used by aviation users in Firefighting. Latitude/Longitude is commonly used by aircraft as they have to operate over long distances and can easily be entered by the pilot.

Examples:

- *[Latitude] [Longitude]*
- -33 48 151 17
- -33d 48m 151d 17m
- -33dec 48min 151deg 17min
- -33° 48' 151° 17'
- 33 48S 151 17W
- S33 48 W151 17
- -33 48.72 151 17.89
- 33 48.72S 151 17.89W
- S33 48.72 W151 17.89

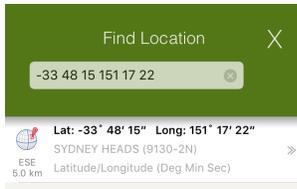


1.9.14 Degrees Minutes Seconds (DMS)

Latitude/Longitude expressed in degree minute seconds. This is a unique location which refers to a single location on the Earth's surface

Examples:

- *[Latitude] [Longitude]*
- -33 48 15 151 17 22
- -33d 48m 15s 151d 17m 22s
- -33deg 48min 15sec 151deg 17min 22sec
- 33 48 15S 151 17 22W
- S33 48 15 W151 17 22
- -33 48 15.11 151 17 22.34
- 33 48 15.11S 151 17 22.34W
- S33 48 15.11 W151 17 22.34



1.9.15 NTZM Coordinates

If your device is located in New Zealand, you can also search by NZTM coordinates. NZTM coordinates are commonly used by emergency services (including FENZ). NZTM is also used when working with NZ topographic maps.

You can search for 4, 6, 8, 10 and 14 grid references in NZTM. The FireMapper app will show results for NZTM coordinates before UTM coordinates, as this NZTM coordinates is the most common format for NZ.

Examples:

- 95 08 (4 figure grid ref)
- 957 083 (6 figure grid ref)
- 9572 0838 (8 figure grid ref)
- 95721 08381 (10 figure grid ref)
- 1795721 5708381 (NZTM coordinates)

1.9.16 Quadrillage Romer Reference

If your device is located in Quebec, you can also search by the quadrillage romer grid that is used in Quebec. This grid format is used by emergency services in Quebec.

Examples:

- 3612-1
- 3612-1-2476

1.10 Export Map

The *Export Screen* lists all the available map export options.

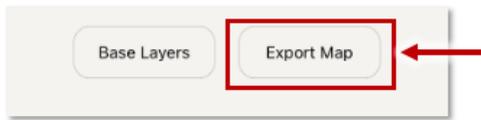
The export options will vary depending on the map content. Photo export formats such as KMZ are only available if there are photos on the current map.

1.10.1 How to Export a Map

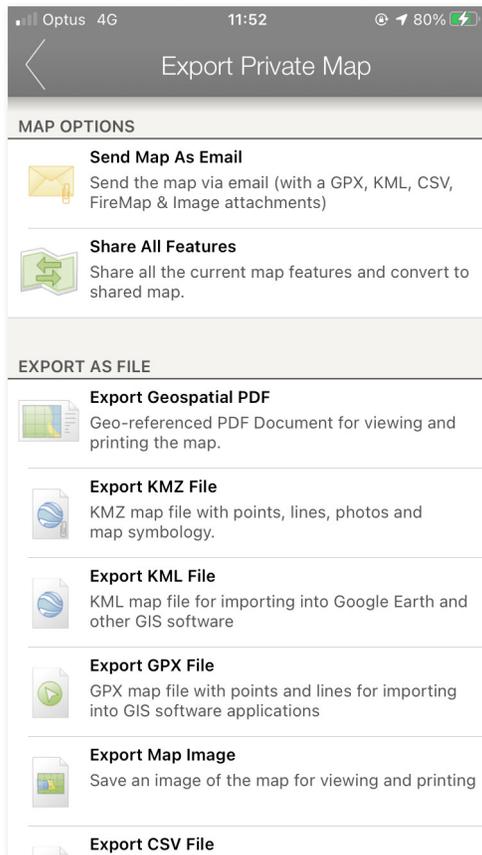
1. Tap the **Map Properties** button in the top right corner of the *Map Screen*.



2. Tap the **Export Button** on the *Map Properties screen*.



3. Select the format that you want to export as from the list of export formats. *Please note that the KML, KMZ, GPX file formats only support WGS84 as part of their file format standards.*



1.10.2 Export Formats

Send Map As Email: Generates an email body with a summary of the map, and attaches multiple file formats



(GPX, KML, CSV, FireMapper and Image) to it.

Note: For FireMapper iOS, you can only send emails using the native iOS Mail application with this feature. You will need to configure a valid email account with the native mail app to use this.

Other clients such as Gmail or Outlook are not supported with the *Send As Email* tool on iOS. If you want to use another email client such as Gmail, select an export format such as GPX, KML, PDF, etc and then select the email client from the list of application. This workaround will allow you to send an email with just a single attachment and no autogenerated email body.

Share All Features: Shares all the features on the map with other users in your organisation.



- *Private Maps:* This will convert the map to a shared map if it is currently a private map and share all the features on the map with other users in your organisation. You will not be able to change the map name after you have converted it to a shared map.
- *Shared Maps:* If the map is already a shared map, this will ensure all features are shared. Shared Maps can contain a combination of private and shared features if *Auto Sharing* has been disabled. A private feature is a feature that has been added but not shared, and is therefore not accessible by other users. This button will share all the private features on the map.

Export Geospatial PDF: This GeoPDF is can be viewed with Adobe PDF, Avezna Map and QGIS Desktop.



FireMapper Enterprise supports importing GeoPDFs back into the FireMapper application including the geometry and metadata for points and lines.

Export KMZ File: This file format can be opened by Google Earth and other GIS Software packages. The



KMZ includes the photos on the map embedded in the KMZ file, however they are compressed to save space.

- To extract these photos on a Windows PC or MacOS, rename the file extension to *.zip*.



Export KML File: This format is used by most GIS applications including Google Earth, QGIS Desktop, ArcGIS Pro, ArcGIS Map and more.

- Only points and lines are supported by KML - photo attachments are not. If you need to include photos, use the KMZ format instead.
- KML also only supports solid lines (not dotted or dashed), meaning that an export in this format will lose FireMapper complex line styles. FireMapper Enterprise supports importing KML back into FireMapper including the geometry and metadata for points and lines.

Export GPX File: This format is used by most GIS applications including QGIS Desktop, ArcGIS Pro, ArcGIS



Map and more.

- Photo attachments are not stored in this format. If you need to include photos, use the KMZ format instead.
- FireMapper Enterprise supports importing GPX back into FireMapper including the geometry and metadata for points and lines.

Export Map Image: Exports the map as a JPEG image file. This format is useful for viewing or printing the



map. This format is useful as no additional software is required to open this file.

- We recommend using Geospatial PDF export in FireMapper Enterprise instead. As this format can also be viewed and printed without additional software. The PDF format is geo-referenced in FireMapper while the Map Image (.jpg) does not contain any geo-referencing information.

Export CSV File: Exports all the points on the map as a CSV file. This export format only contains points, *not*



lines, areas and photos.



Export GeoJson File: GeoJson is a format supported by web based GIS applications including as OpenLayers, Leaflet. It can also be opened using QGIS Desktop and ArcGIS Pro.



Export ZIP Folder: This creates a compressed zip file of the map with all the source files. It is intended for troubleshooting and data recovery. This format includes a copy of all the original photos (with no compression or resizing). This can be useful for fire investigation purposes.



Export GPS Photos: Exports all the GPS Photos from the map. This option is only available if the map contains photos.

1.11 Import Map

FireMapper Enterprise supports importing maps as KMZ, KML, GPX and GeoPDF. The non-enterprise version does not support importing maps.

Importing Maps in iOS

1. Find the **PDF/GPX/KML/KMZ file** you want to open using the Mail app, Files App, Google Drive, Dropbox or any other app that supports the Share/Open With command.
2. Tap the **Share/Open With Button**.

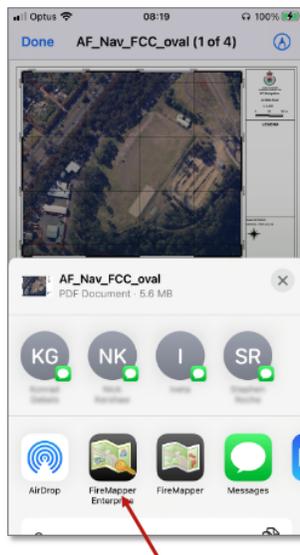
In the Mail app this button looks like a square with an arrow coming out the top.

In Google Drive app, use the 'Open With' item from the dropdown menu to open the file.



Click **Share** button

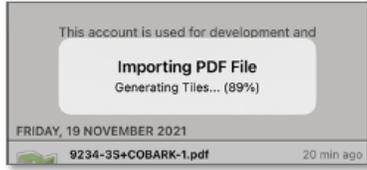
3. Select **FireMapper Enterprise** from the list of applications. You may need to scroll right to find the FireMapper Enterprise application in the list of apps.



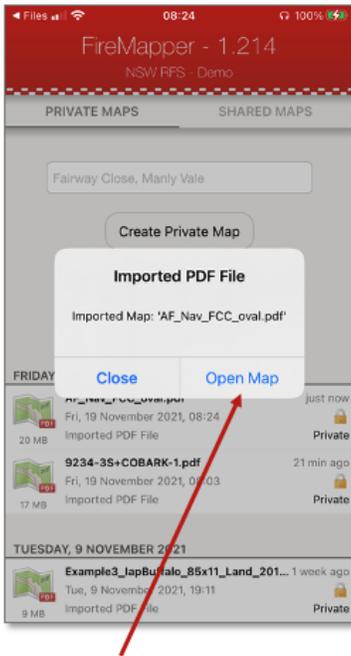
Click **FireMapper Enterprise** from the list of apps. You may need to scroll right to see the app in the list.

4. The **PDF/GPX/KML/KMZ file** will be imported into FireMapper Enterprise application.

For large PDFs it may take up to a minute to complete the import process. PDF file types usually take a little longer to import than the other file types as the FireMapper app will automatically crop the PDF and overlay the PDF on top of a suitable base layer.



5. Click **Open Map** to open the new map once the import process is complete.



Click **Open Map** to switch to the imported map in FireMapper.

6. The Imported Map will be displayed in FireMapper. You can add additional features as required to the imported map.



Imported PDFs will be cropped to the map area with legend and border automatically removed.

Importing Maps in Android

1. Find the **PDF/GPX/KML/KMZ file** you want to open using the Mail app, Files App, Google Drive, Dropbox or any other app that supports the Share/Open With command.
2. From the Popup select **FireMapper Enterprise**
3. Select **FireMapper Enterprise** from the list of applications
4. The **PDF/GPX/KML/KMZ file** will be imported into FireMapper Enterprise application.
5. Click **Open Map** to open the new map once the import process is complete
6. The Imported Map will be displayed in FireMapper. You can add additional features as required to the imported map.

1.11.1 Importing PDF Files

Geo-referenced PDFS can be imported into FireMapper Enterprise.

This will create a new map in FireMapper with the PDF as a base layer.

FireMapper will automatically crop the border and legend and only use the map area from the PDF as part of the import progress.

Only PDFs with a mercator projections can be imported into FireMapper. If the lines of equal latitude or lines of equal longitude on the PDF are not parallel, the PDF does not have a meractor projection. Web Mercator (EPSG 3857) is the preferred projection, as the PDF will be converted into a overlay on top of Google maps after it is imported into FireMapper.

If you have a PDF that is not a mercator projection, you can use a free command line tool such as GDAL ([gdal_translate](#)) to reproject the PDF into a suitable projection such as web mercator (EPSG 3857) before importing it into FireMapper.

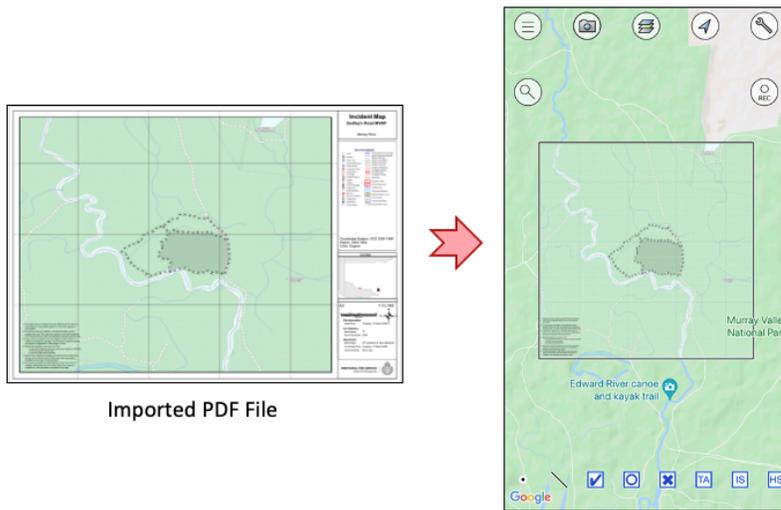
QGIS Desktop is another free desktop mapping application that can be used to reproject the PDF into web mercator.

1. Import the PDF into QGIS Desktop

2. **Select Raster->Conversion->Translate (Convert Format)** to open the Translate (Convert Format) dialog from the QGIS Desktop menu bar.
3. Select the original PDF as the source layer (.pdf)
4. Select **EPSG3857 - WGS 84 / Pseudo-Mercator** as the Overrive the projection of the output file.
5. Provide a file path for the output file in the converted field with a .pdf file extension.
6. Click **Run** button to convert the PDF.
7. Import the generated PDF file into FireMapper.



The FireMapper application will automatically select a suitable base layer to overlay the PDF on top of. For topographic pdf maps, the pdf will be overlaid on top of the Google terrain layer, otherwise if the PDF contains a satellite base layer it will be overlaid on top of Google satellite layer.



1.11.2 Importing GPX Files

GPX files can be imported into FireMapper Enterprise. GPX files only support point and lines as photos can not be stored in a GPX file.

If the GPX file was created by another FireMapper iOS/Android or the FireMapper Portal , the imported file will include the correct symbology and all the metadata fields (e.g. Author Info, User Proximity. Source, etc.). FireMapper stores this additional metadata in the GPX <extensions> tag.

If the GPX file was not created by FireMapper software, the imported file will not include symbology.

1.11.3 Importing KML Files

KML files can be imported into FireMapper Enterprise. KML files only support point and lines as photos can not be stored in a KML file.

If the KML file was created by FireMapper software, the imported file will include the correct symbology and all the metadata fields (e.g. Author Info, User Proximity. Source, etc.). FireMapper stores this additional metadata in the KML <data> tag.

If the KML file was not created by FireMapper software, the imported file will not include symbology.

1.11.4 Importing KMZ Files

KMZ files can be imported into FireMapper Enterprise. KMZ files support point, lines and photos. Photos attachments can be embedded in KMZ files.

If the KMZ file was created by a FireMapper software, the imported file will include the correct symbology and all the metadata fields (e.g. Author Info, User Proximity. Source, etc.) FireMapper stores this additional metadata in the KML <data> tag.

If the KMZ file was not created by FireMapper software, the imported file will not include symbology.