FireMapper Portal Manual

Fire Front Solutions Pty Ltd

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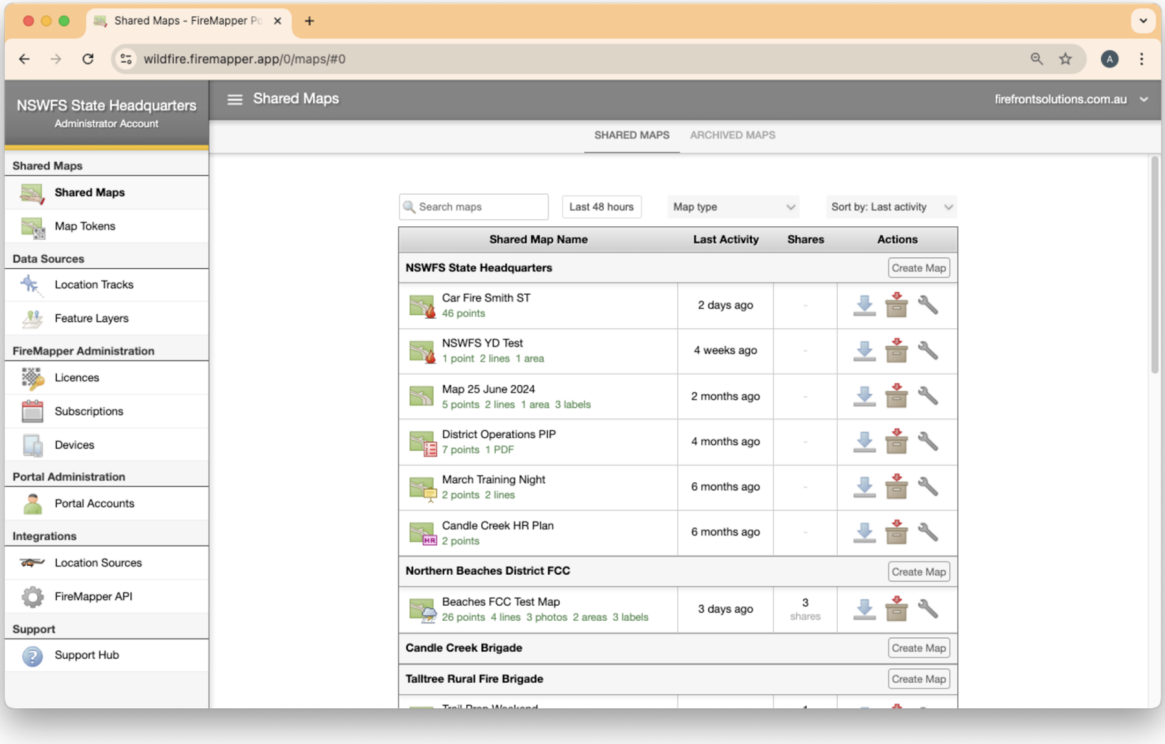
ONE

INTRODUCTION

The FireMapper Portal allows you to view and edit observations collected by other members using FireMapper, and provides a real-time common operating picture of live locations and all mapping activity and data activity. It also provides administrative and configuration tools for maintaining your subscription.

Maps can be downloaded and viewed using third party applications such as Google Earth, or integrated with ArcGIS and other agency systems.



CHAPTER

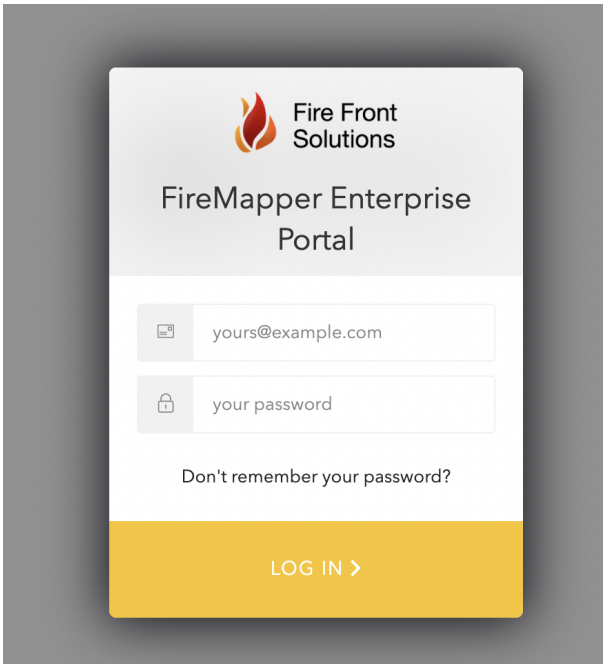
TWO

LOGGING INTO THE PORTAL

Open the FireMapper Portal in a web browser:

- https://portal.firefront.com.au/

Login with your provided username (email address) and password. If you don't have a login, contact your subscription administrator. If you have forgotten your password, open FireMapper Portal and click the "Don't remember your password" link. Follow the 'forgot password' instructions to reset it. Your subscription administrator can also initiate a password reset on your behalf.



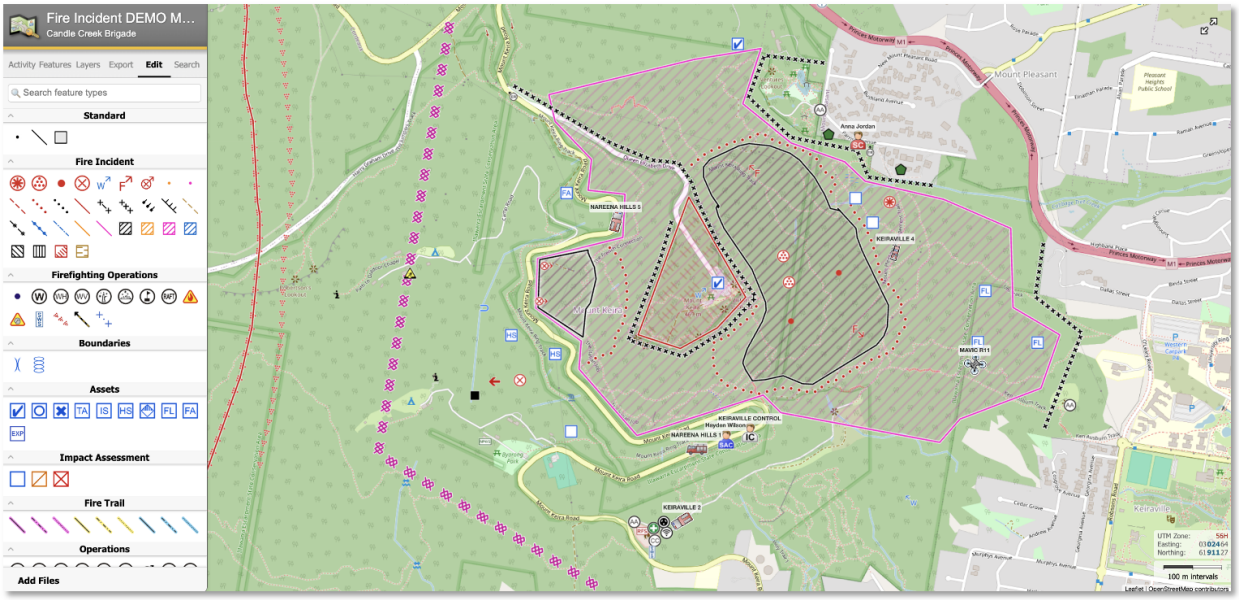
CHAPTER

THREE

MANUAL CONTENTS

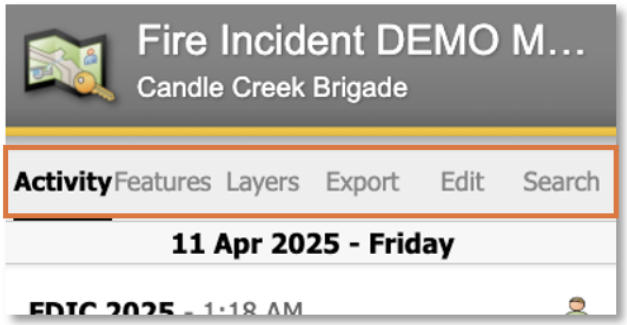
3.1 Map Viewer

The Portal Map Viewer allows users to view and interact with shared maps. It provides real-time visibility of map and location data, tools to edit and add observations, images and pdfs as well as comprehensive export, import and map printing functionality.



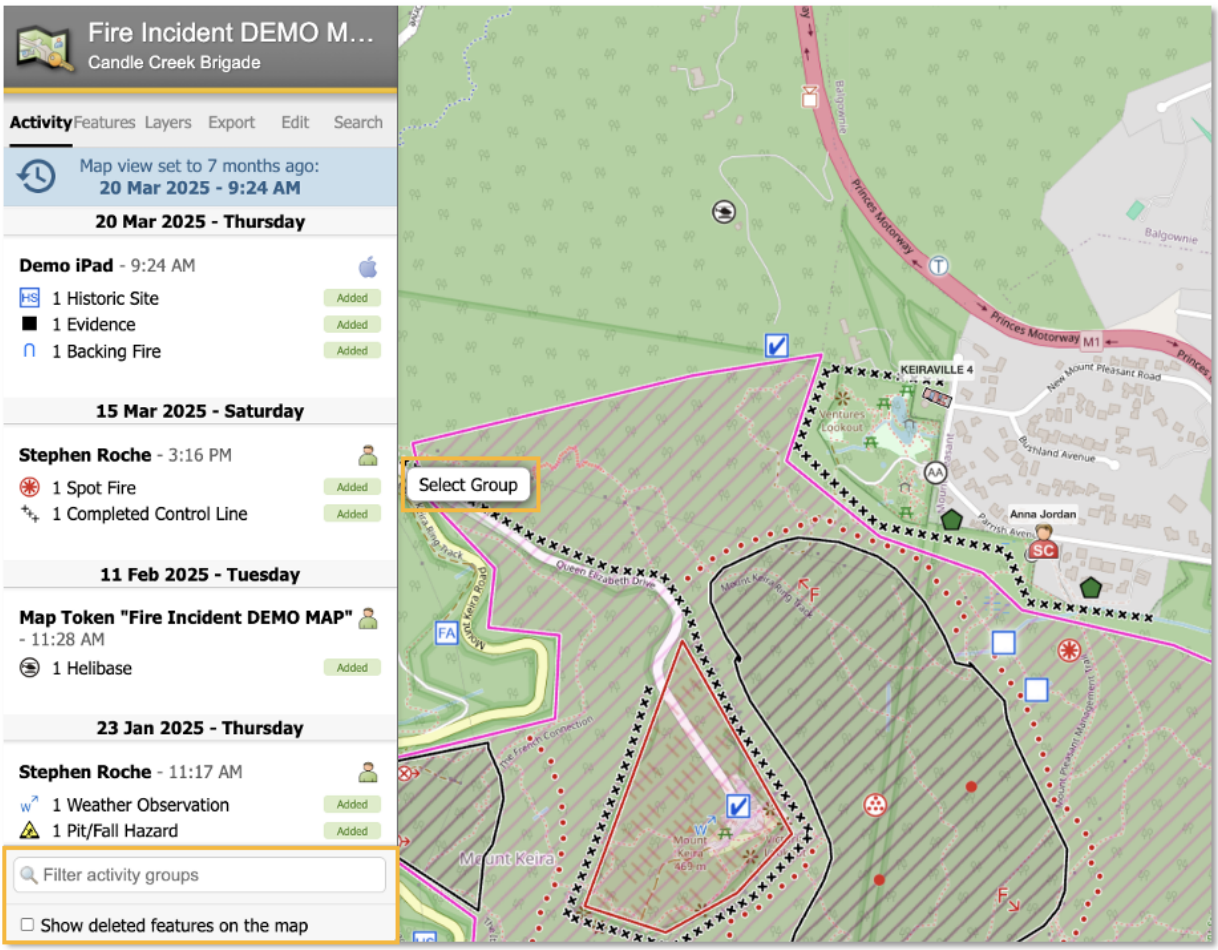
3.1.1 Sidebar

Read about the different tabs in the sidebar:



Activity Tab

The Activity Tab provides a chronological feed of additions and changes to features on the map. By clicking and holding on an Activity Group, it is possible to highlight individual Activity Groups on the map or select them for export or bulk modifications.



- The activity feed can be filtered by author or feature types using the search box at the bottom (e.g. “John Smith”, “Map Token”, “Photo”).

- The checkbox at the bottom also allows deleted features to be displayed on the map, which can be useful for undeleting/restoring features that have previously been deleted.

FireMapper Timeline

Scrolling through the activity feed will activate FireMapper Timeline mode on the map. This will display the features on the map as they appeared at that snapshot in time. This includes on the *Features* and *Export* tabs, allowing export of the map at that snapshot in time in a variety of formats. From any tab, click on the blue timeline banner at the top of the sidebar to exit timeline mode and return to the live map view.

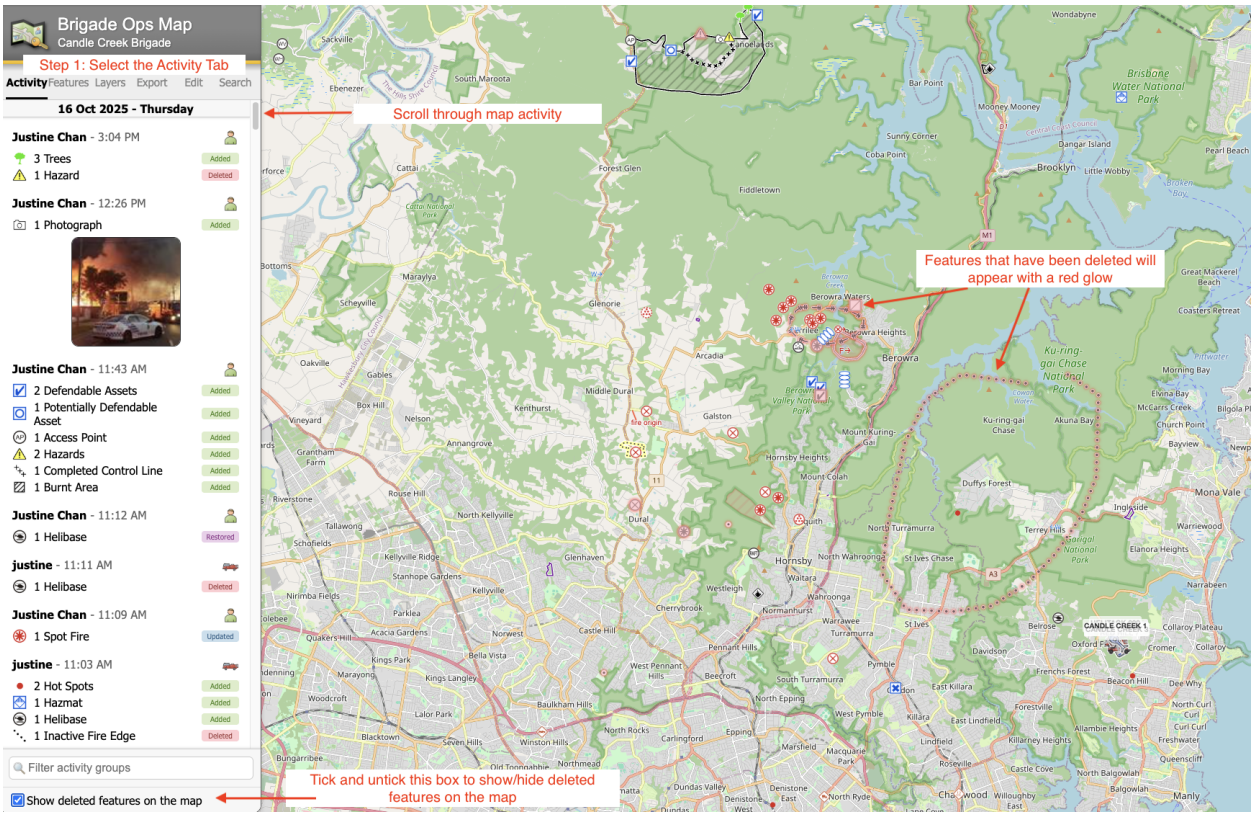
Note that FireMapper Timeline mode only affects shared features on the map. It does **not** affect the display of:

- Location sharing
- Shared overlays
- Base layers (e.g. satellite imagery) that change over time
- Live feeds (e.g. weather stations, traffic incidents)
- Hotspot overlays

Note: The FireMapper Timeline captures the state of the map as it was **shared** with other users at that point in time. This means that observations captured offline will appear in the Activity Tab and on the map in the FireMapper Timeline at the later time when they were shared to other users. The created and updated times viewable when selecting those features will still correctly show the time the observations were originally captured.

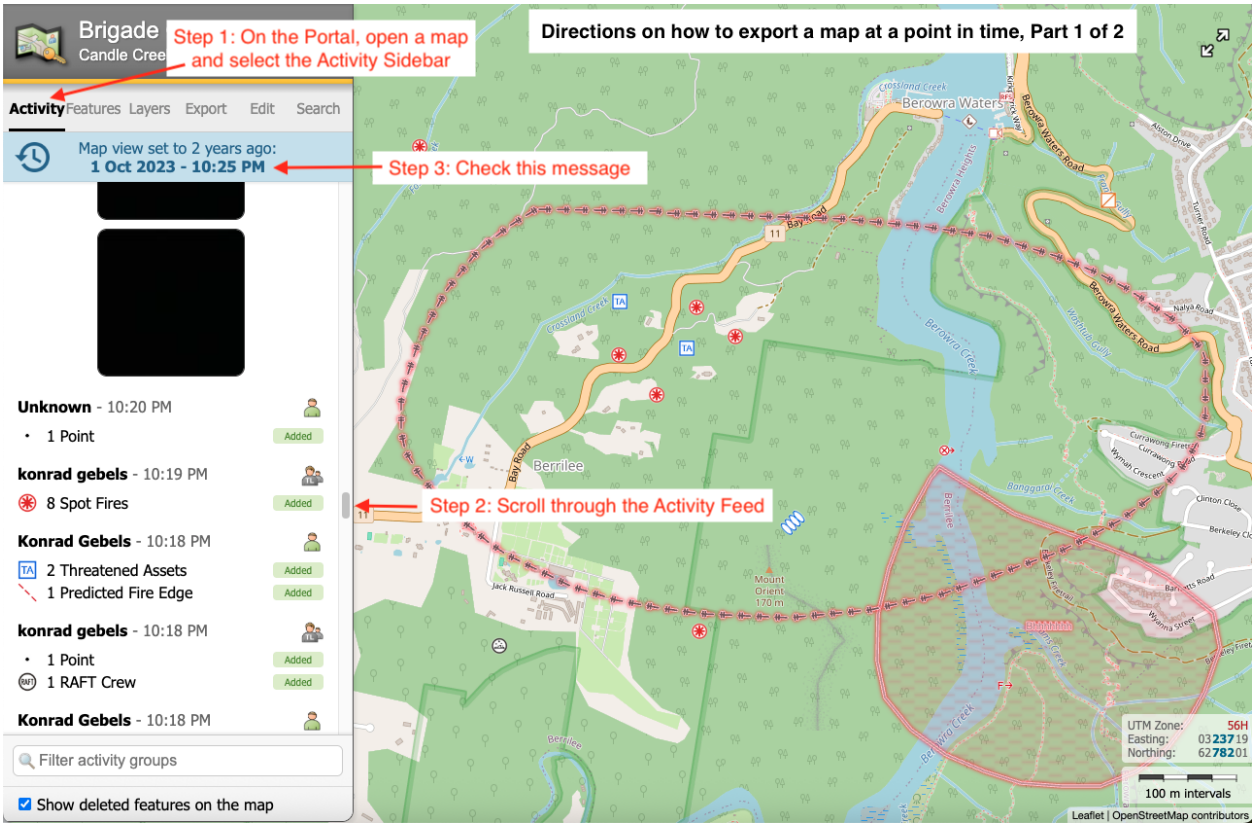
How to access the Activity Timeline:

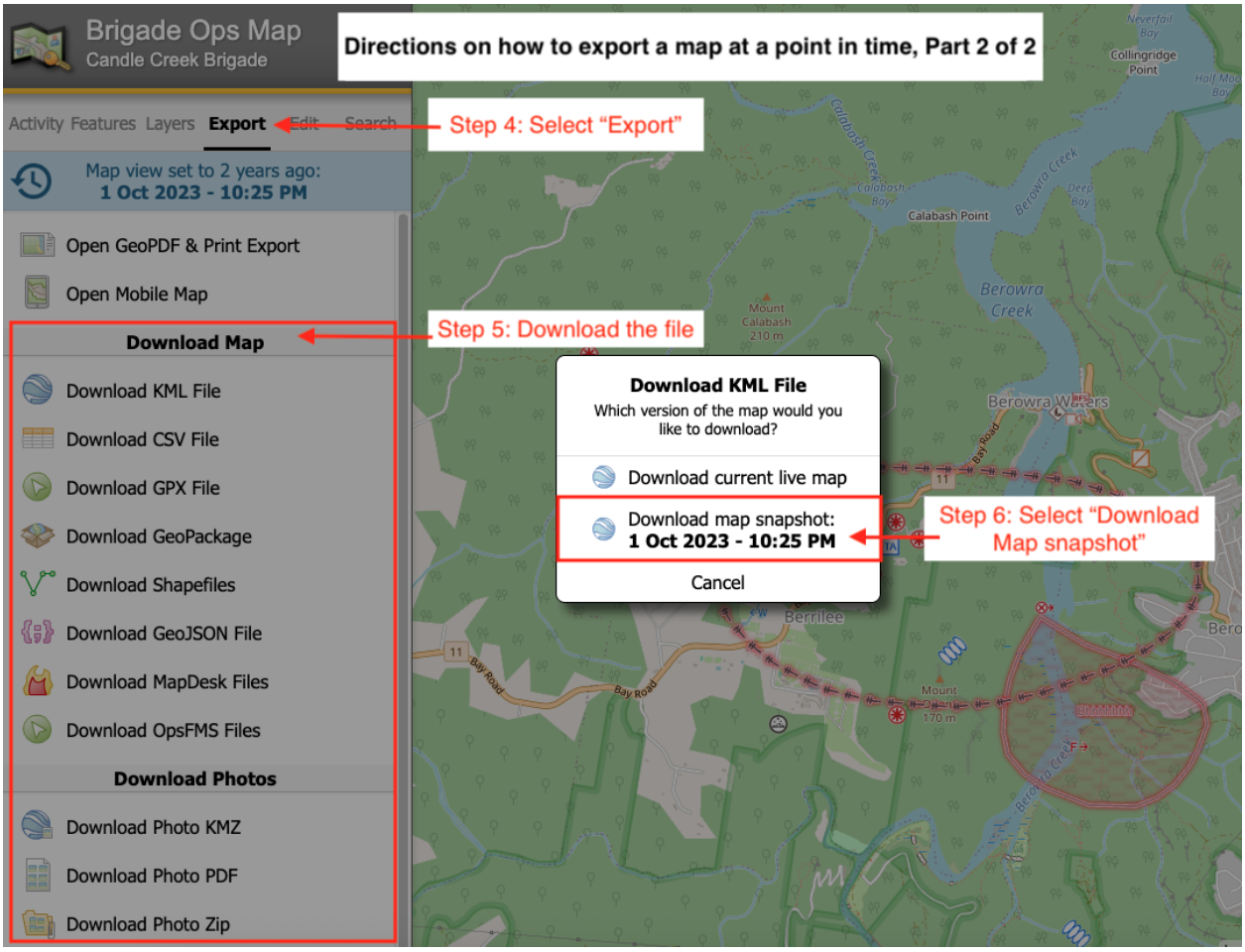
1. Open a map in the Portal and select **Activity** from the sidebar.
2. Scroll through the **Activity Feed**.
3. To access deleted features, navigate to the bottom of the **Activity** sidebar. There is a checkbox labelled **Show deleted features on the map**. Tick or untick this checkbox to show and hide all deleted features.



How to export a map at a point in time:

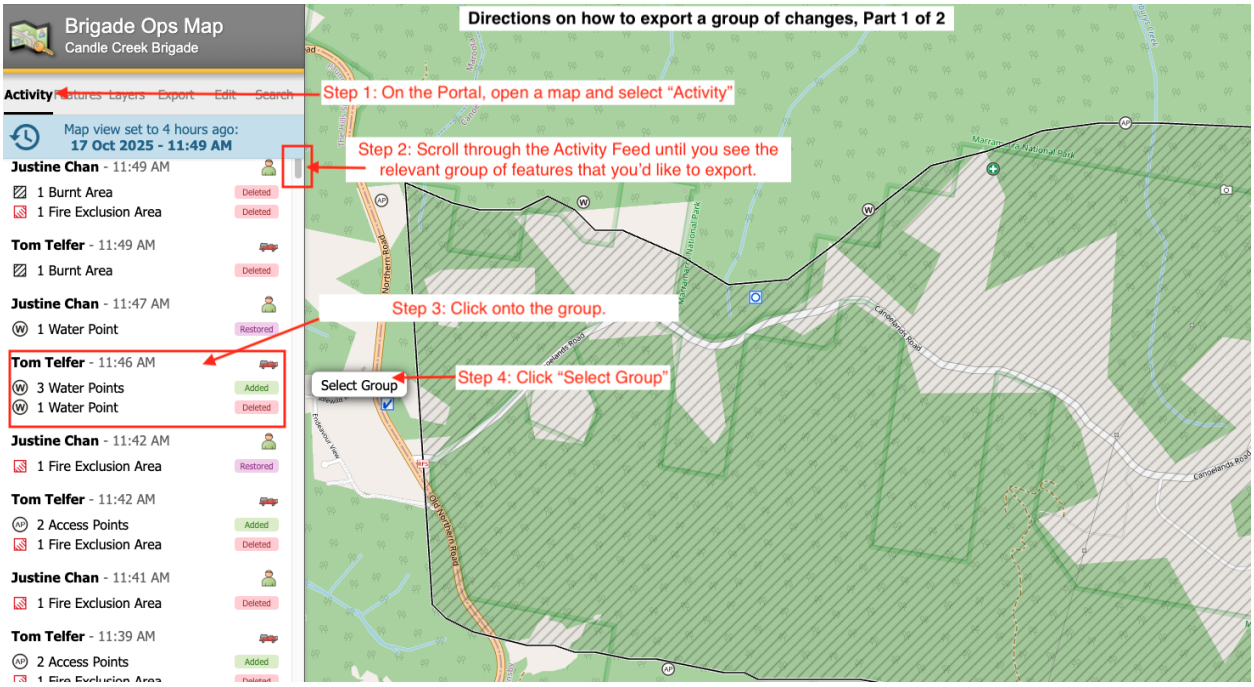
1. Open a map in the Portal and select **Activity** from the sidebar.
2. Scroll through the **Activity Feed** until the blue banner displays the desired point in time (e.g. “Map view set to 3 months ago: 21 Jul 2025 - 9:15 AM”). The features displayed on the map will also match this point in time.
3. Select **Export** from the sidebar.
4. Under **Download Map** or **Download Photos**, select the file type you’d like to download the map as.
5. In the pop-up dialog that appears at the centre of the screen, select **Download map snapshot**.


Brigade
Candle Cree
Step 1: On the Portal, open a map and select the Activity Sidebar
Directions on how to export a map at a point in time, Part 1 of 2
Activity Features Layers Export Edit Search
Map view set to 2 years ago:
1 Oct 2023 - 10:25 PM
Step 3: Check this message
Unknown - 10:20 PM
1 Point
Added
konrad gebels - 10:19 PM
8 Spot Fires
Added
Konrad Gebels - 10:18 PM
2 Threatened Assets
Added
1 Predicted Fire Edge
Added
konrad gebels - 10:18 PM
1 Point
Added
1 RAFT Crew
Added
Konrad Gebels - 10:18 PM
Filter activity groups
Show deleted features on the map
Step 2: Scroll through the Activity Feed
Berowra Waters
Berrilee
UTM Zone: 56H
Easting: 0323719
Northing: 6278201
100 m intervals
Leaflet | OpenStreetMap contributors



How to export an Activity Group:

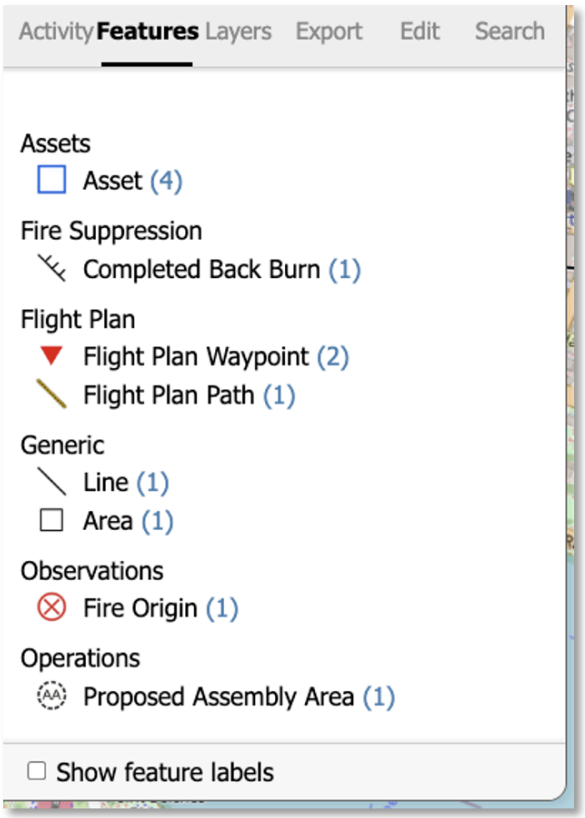
1. Open a map in the Portal and select **Activity** from the sidebar.
2. Select the desired Activity Group within the **Activity Feed**.
3. Click the **Select Group** button.
4. Click the **Download** button located at the bottom right.
5. Select the file type you'd like to download the group of features as.


Brigade Ops Map
Candle Creek Brigade
Activity
Map view set to 4 hours ago:
17 Oct 2025 - 11:49 AM
Justine Chan - 11:49 AM
1 Burnt Area
1 Fire Exclusion Area
Tom Telfer - 11:49 AM
1 Burnt Area
Justine Chan - 11:47 AM
1 Water Point
Tom Telfer - 11:46 AM
3 Water Points
1 Water Point
Justine Chan - 11:42 AM
1 Fire Exclusion Area
Tom Telfer - 11:42 AM
2 Access Points
1 Fire Exclusion Area
Justine Chan - 11:41 AM
1 Fire Exclusion Area
Tom Telfer - 11:39 AM
2 Access Points
Directions on how to export a group of changes, Part 1 of 2
Step 1: On the Portal, open a map and select "Activity"
Step 2: Scroll through the Activity Feed until you see the relevant group of features that you'd like to export.
Step 3: Click onto the group.
Select Group
Step 4: Click "Select Group"

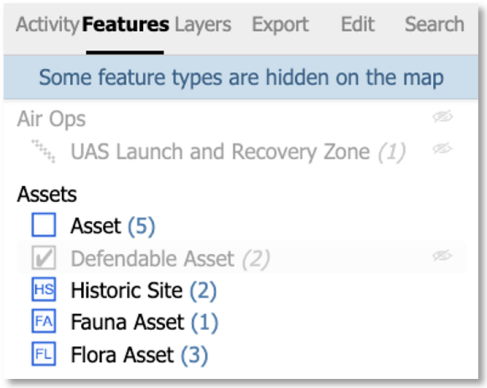
4 Features Selected
Directions on how to export a group of changes, Part 2 of 2
4 Water Points
Step 6: Download the features
Download 4 Features
Choose format for downloading the selected features
Download KML
Download GPX
Download GeoJSON
Download Shape Files
Cancel
Step 5: Select the download icon
Old Northern Road
Marramarra National Park
The Vale
Yoothamurra

Features Tab

The *Features Tab* contains all feature types and their counts that are currently on the map. They are grouped by category (e.g. Observations, Operations, Predictions).



- Click a feature type to toggle its visibility on/off on the map.
- Check or uncheck the box next to *'Show feature labels'* to show/hide all feature labels on the map. Feature labels show the name of a feature below its icon on the map.



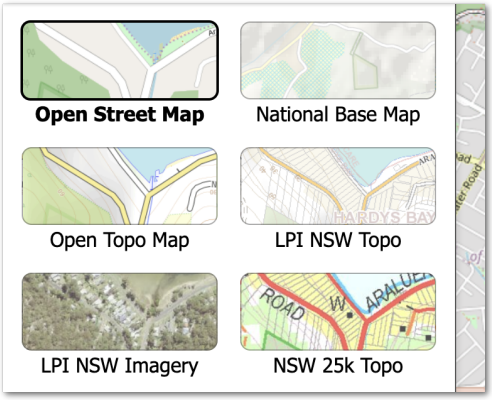
Layers Tab

The *Layers Tab* controls the base map, live feeds and additional overlays that are visible on the shared map.

Base Layers Section

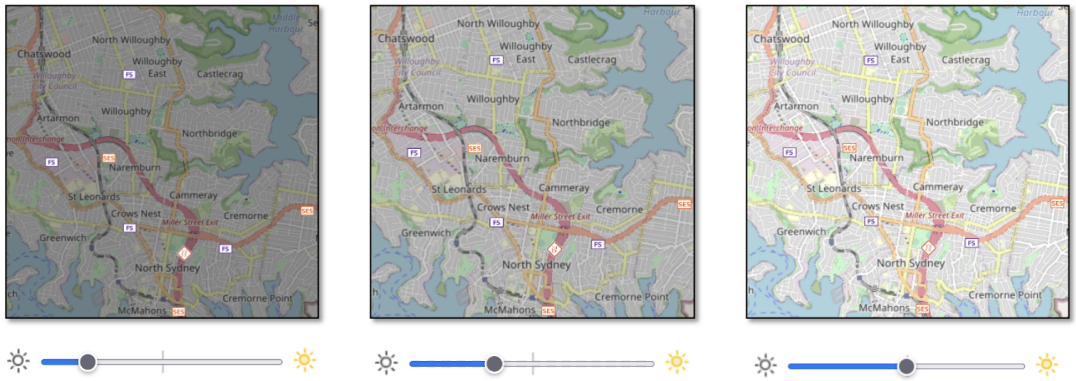
Base Layers

This is a list of base layers that are available at the current map extents and zoom level. This list of base layers will automatically change as the map is moved around. The base layers available to your organisation is controlled by the organisation configuration.



Base Layer Brightness

The brightness slider changes the base layer brightness on the map. This can be used to improve the contrast between features and the base layer if required.

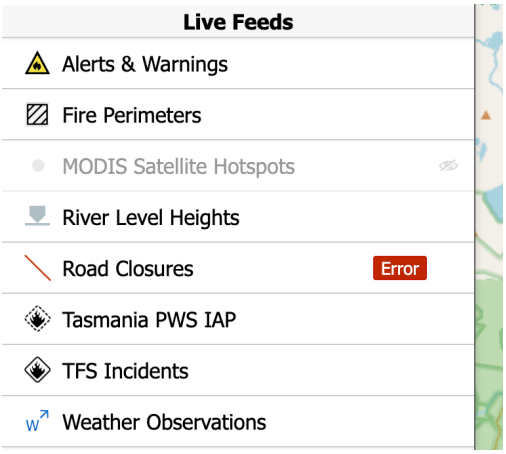


Live Feeds Section

Live feeds refer to data that is sourced from external sources. These feeds are read-only and cannot be edited. The live feeds that are available to an organisation is controlled by the configuration. A complete list of available feeds can be found in the *Live Feeds* page in the Portal Home Page.

This section contains the list of live feeds that are available *for the current map extents and zoom level*. This list of live feeds in this section will automatically change as the map is moved around and zoomed in/out depending on the availability of the live feed data in the current map extents.

Click a live feed to show/hide it on the map.

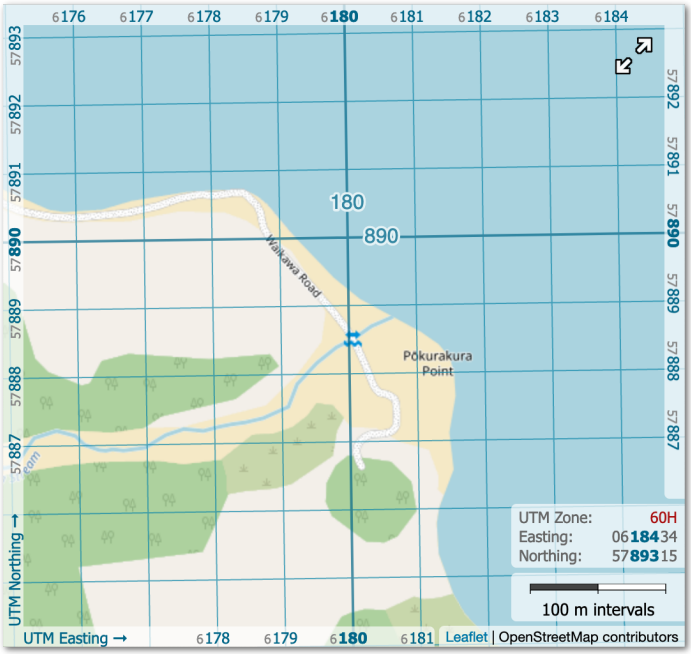


Overlays Section

The list of available grid layers will depend on the current map extents. Click a grid overlay to show/hide it on the map. Please note that selecting a grid overlay will automatically turn off any other grid layer that are currently turned on. It is not possible to have more than one grid layer turned on at a time.

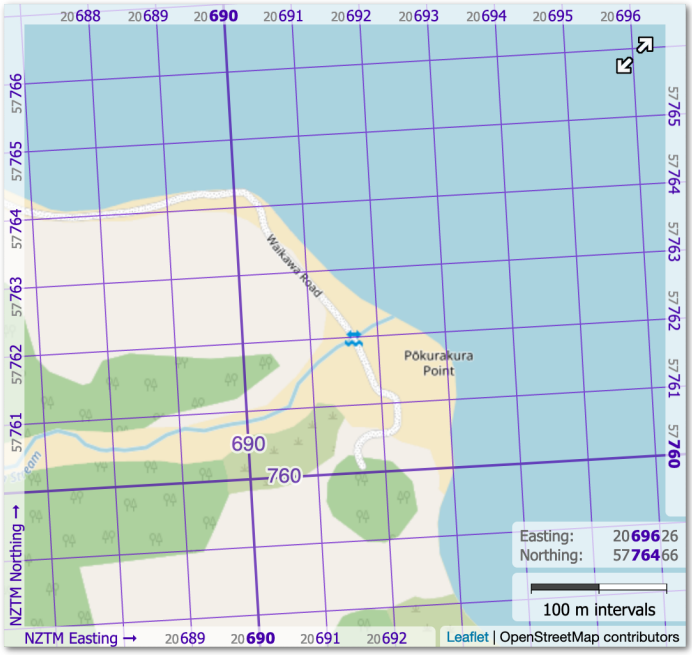
UTM Grid Overlay

This UTM grid is used by most emergency services for ground operations, since all grid squares are in metres (easting/northing) and thus relatively easy to work with. This grid is the same grid used for topographic maps in Australia and USA.



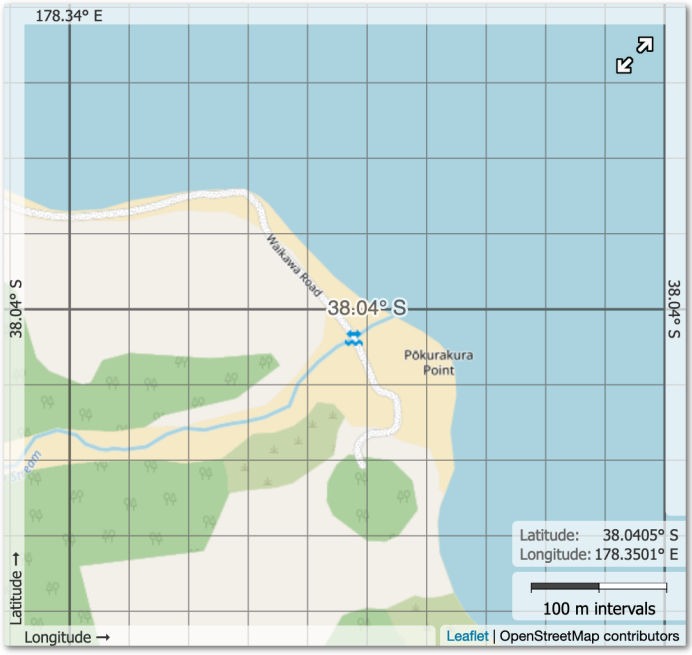
NZTM Grid Overlay

The NZTM grid is used by emergency services in New Zealand as a preferred grid instead of using UTM. This is the same grid that is used by the NZ Topo250 and NZ Topo25 base layers. It is available to all users when using maps for NZ.



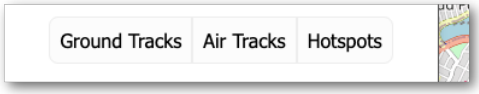
Lat/Lng Grid Overlay

The Latitude/Longitude grid is used by emergency services, mostly for aircraft operations. It is better suited for working over long distances due to the curvature of the earth.



Ground and Air Tracks

Displays recent location tracks heatmap for personnel and appliances, or aircraft. This is useful for seeing how personnel are accessing an incident (such as what trails are in use, how are appliances getting around a fences at an incident). There is significant delay for the tracks overlay.

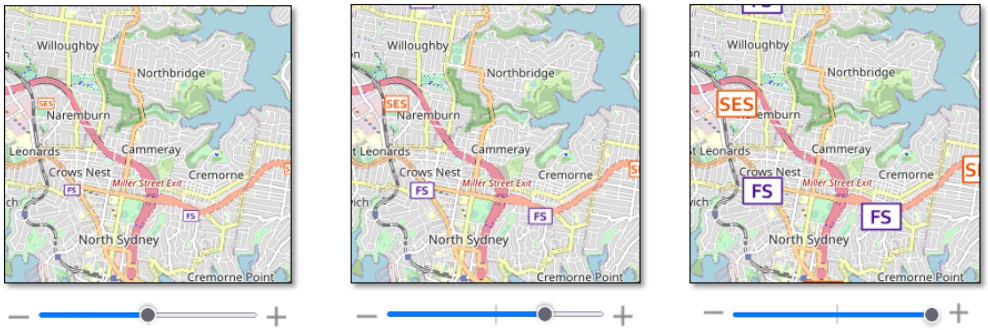


Hotspots Overlay

The hotspots overlay consists of satellite detected hotspots from MODIS, VIIRS and Himawari-8 satellite. These satellites provide a snapshot of large fire activity when the satellite passes overhead. The color of the dots is determined by age, recent fire activity is displayed as red, then orange, yellow and black. Older hotspot activity will fade away after 7 days.

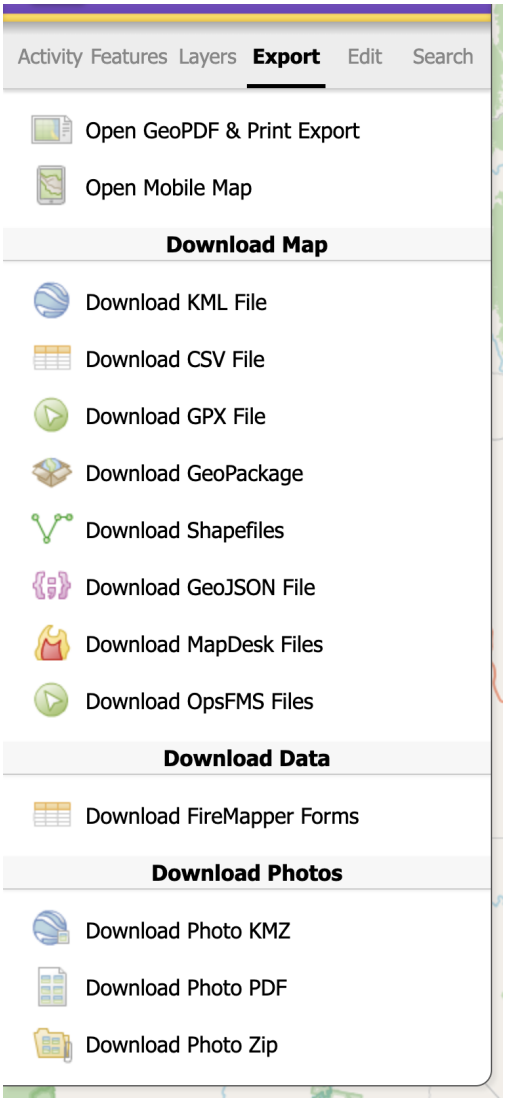
Feature Scale

This slider determines the size of the map features on the screen. You can use this slider to make the map features larger, which is useful when using the FireMapper Portal on large screens or when conducting incident briefings.



Export Tab

The *Export Tab* provides a variety of methods to export map data out of the Portal.



See *Print Preview & GeoPDF export* for further details on editing a map document for export to a GeoPDF file or print.

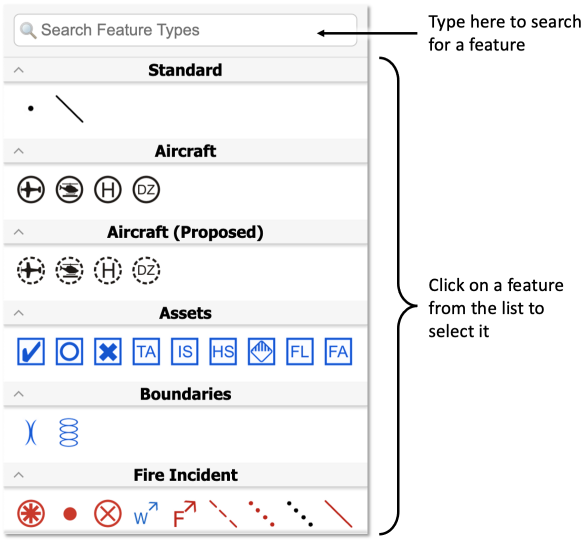
Note: Shapefiles are exported from FireMapper Portal we use the WGS84 datum and include a prj file with the datum information so it can be detected by other applications.

Edit Tab

The Edit Tab provides the ability to add new points, lines, areas, photos and PDFs.

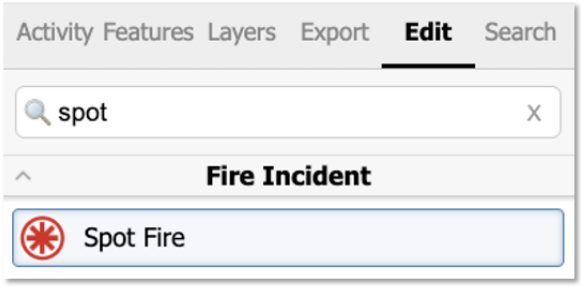
Features List

This is a list of all the feature types that are available on your subscription. You can search for a specific feature type using the **Search Feature Types** box.

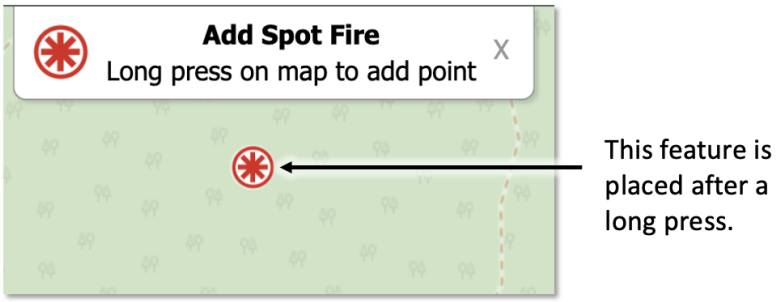


Adding a Point

1. **Select** a point feature by **clicking** on it from the list.



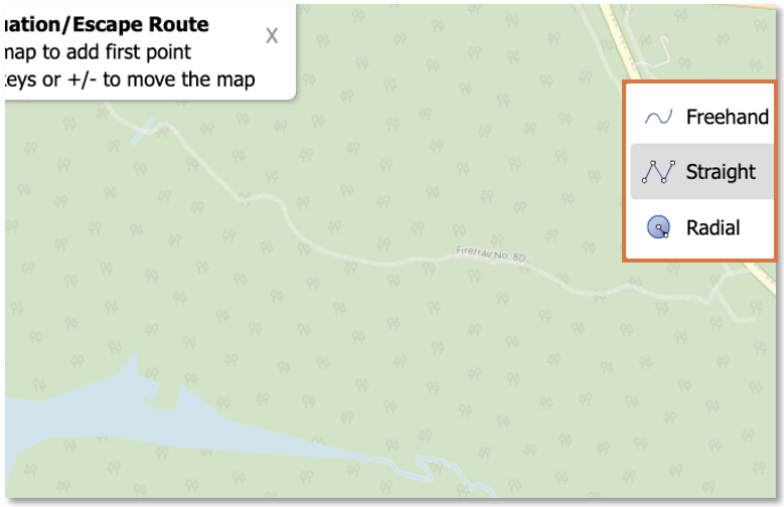
2. **Place** a feature on the map by doing a **long press** on the map.



Adding Lines and Areas

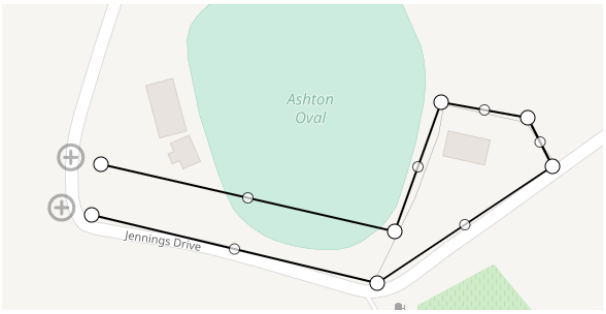
1. **Select** a line or area feature by clicking on it from the list.

2. **Draw** the line or area by using either the **Freehand, Radial** or **Straight Line Editor**.



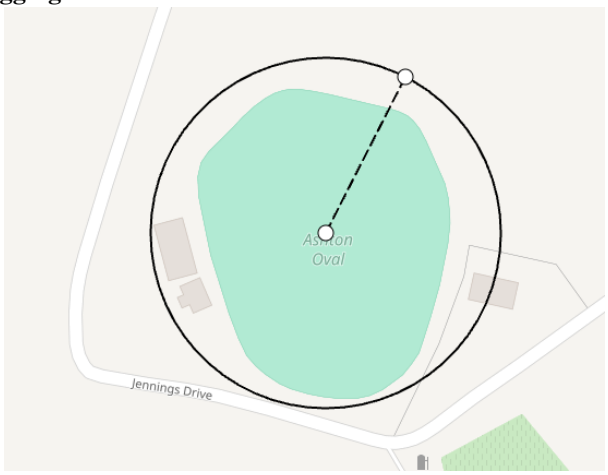
Tip: Use the arrow keys or +/- to move the map while editing.

- The **Straight Line Editor** helps create precise and straight lines and areas.



- The **Freehand Editor** allows you to create curves and shapes that follow topography or anything not well represented in straight lines.

- **The Radial Editor allows you to create circular shapes by clicking a center point and dragging out the radius.**

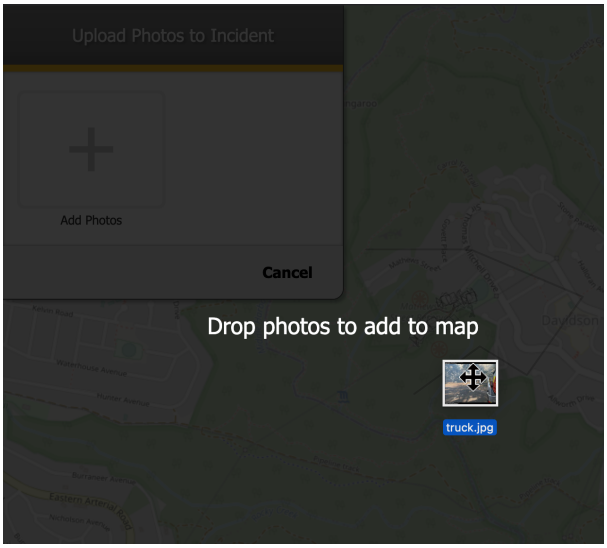


Adding Photos

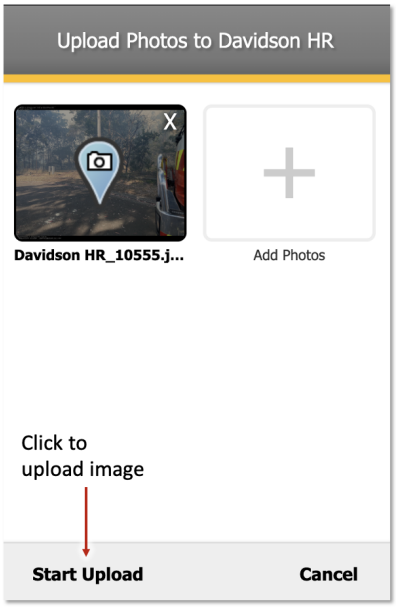
There are two ways to import a photo onto the map:

1. **Clicking** the "Add Files" button

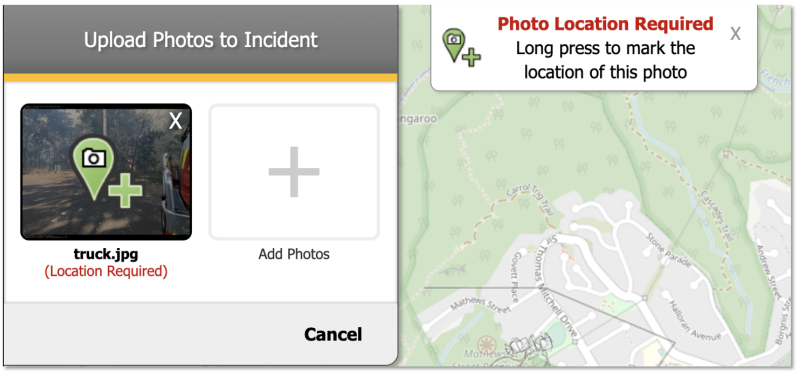
2. **Dragging and dropping** an image:



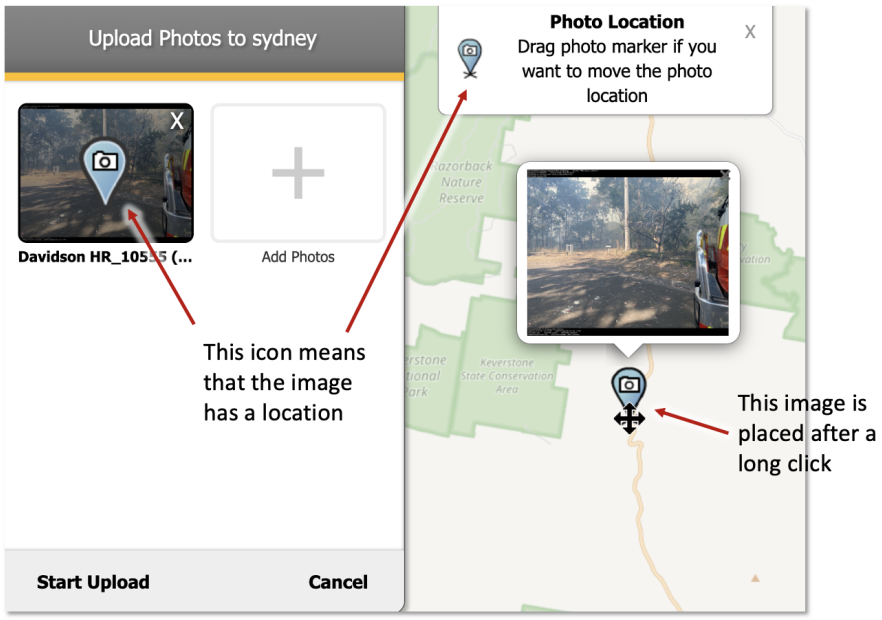
Click the "Start Upload" button to add it to the map:



Note: All images that are imported must have a location associated with it. If the uploaded image does not have a location, you can *manually* place it on the map.



If the uploaded image has a location, it will automatically be placed on the map but you can **edit the location**.

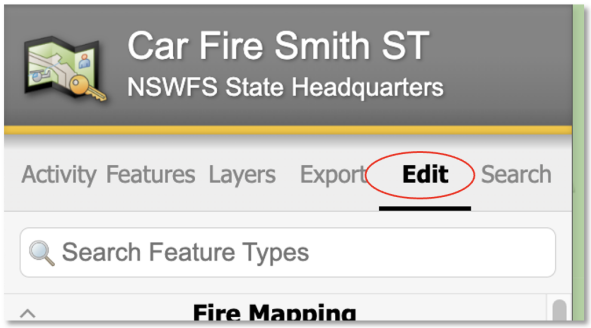


Importing Files

How To

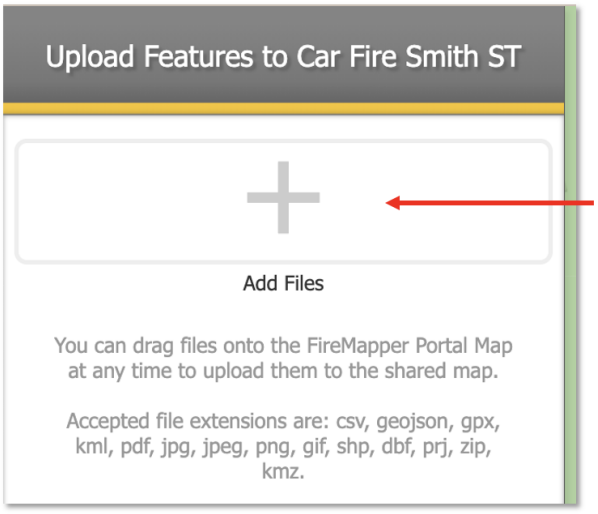
You can drag and drop files into the FireMapper Portal map, or use the edit tab:

1. Click **Edit** on the sidebar. The edit tab is not available on read-only or archived maps.

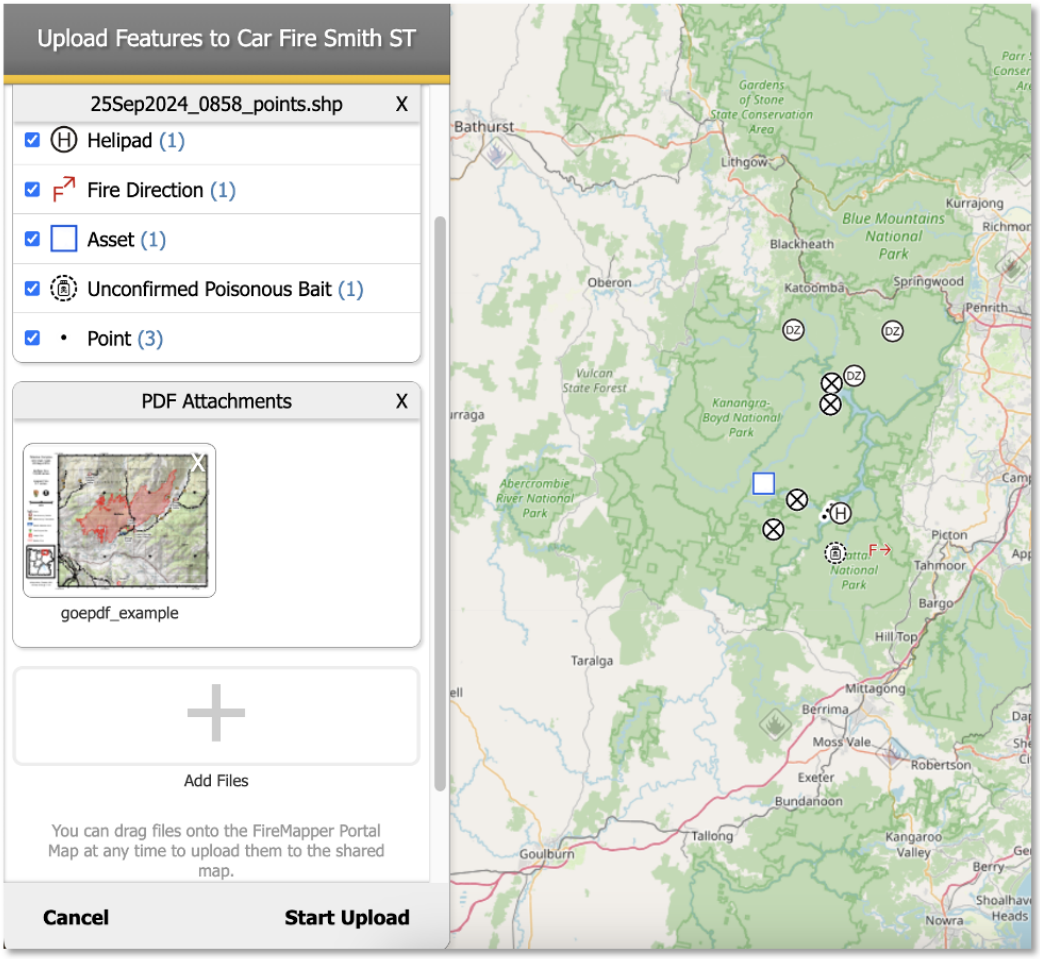


2. Click the **Add File** button at the bottom of the edit tab in the sidebar.

3. Select the files that you want to import by clicking the + icon. See below for compatible file formats.



4. FireMapper will automatically identify the appropriate symbology for the imported features if the file was generated by FireMapper, RFS MapDesk, Vic eMap, or using the USA NGWS shapefile format. A preview of the imported files will be displayed on the map



5. If FireMapper is unable to identify appropriate symbology, you can select the imported features and choose

symbology from a dropdown list.

6. Click **Start Upload** to start the upload process. The imported features will now be visible to other users after the import process is complete

Compatible File Formats

The following file formats can be imported into an existing shared map.

- **KML/KMZ Files**
  - Google Earth KML/KMZ File is a common format used by GIS software. If the kml/kmz file was exported from FireMapper, the imported features will contain all the correct symoblogy and metadata. KMZ files is the recommended format for importing maps from FireMapper as it is the only format that supports photo attachments.
- **GPX Files**
  - GPS Exchange Format file is a common format used by GIS software. If the gpx file was exported from FireMapper, the imported features will contain all the correct symoblogy and metadata.
- **PDF Files**
  - PDFs can be uploaded as an attachment to a point on the map. This allows you to include a pdf attachment on the map, such as a Pre-Incident Plan or Incident Action Plan that can be viewed by other users on the same shared map.
- **ERSI Shape Files**
  - Only shx, shp and dbf files are required, other shape file types will be ignored as part of the import process. You need to add the shx, shp and dbf with matching file name at the same time, otherwise the import error will occur. You can use a compressed zip folder to upload all the individual shape files at the same time. If the shape files were exported from FireMapper, RFS MapDesk, Vic eMap or USA NWCG standard format, the symbology will automatically be included as part of the import process.
- **Image files**
  - Both geo-referenced and non-georefernced image files are supported. If the image file is geo-referenced (using EXIF or XMP tags), the location is automatically extracted from the image and displayed at the correct location on the map. If the image is not geo-referenced, you will need to manually reference the photo as part of the import process. Large images will automatically be compressed as part of the import process, so they can be accessed by FireMapper clients with slow internet connections.
- **Compressed ZIP File**
  - Compressed zips can be used to import multiple files at the same tile. The compressed zips are automatically unzipped as part of the import process, and the supported individual files are displayed in the import sidebar.

Note: There is a 1,000 feature limit per a file as part of the import process. There is also a 10,000 feature limit for importing for shared maps. This limit will be increased in a future update.

Note: Duplicate geometry from the imported files will automatically be removed as part of the import process. Any complex or self-intercepting polygons will be converted to simple polgyons are part of the import process.

Note: The FireMapper Portal does support importing shape files using other datums if you use a projection file (.prj) when importing the files. If no location file is included FireMapper will assume you are using the WGS84 datum. The FireMapper Portal uses Proj4JS library to convert to WGS84 as part of the import operation.

Contact support if there is another import file format that you would like to add. We are always looking for ways to further improve the import process and FireMapper application.

Search Tab

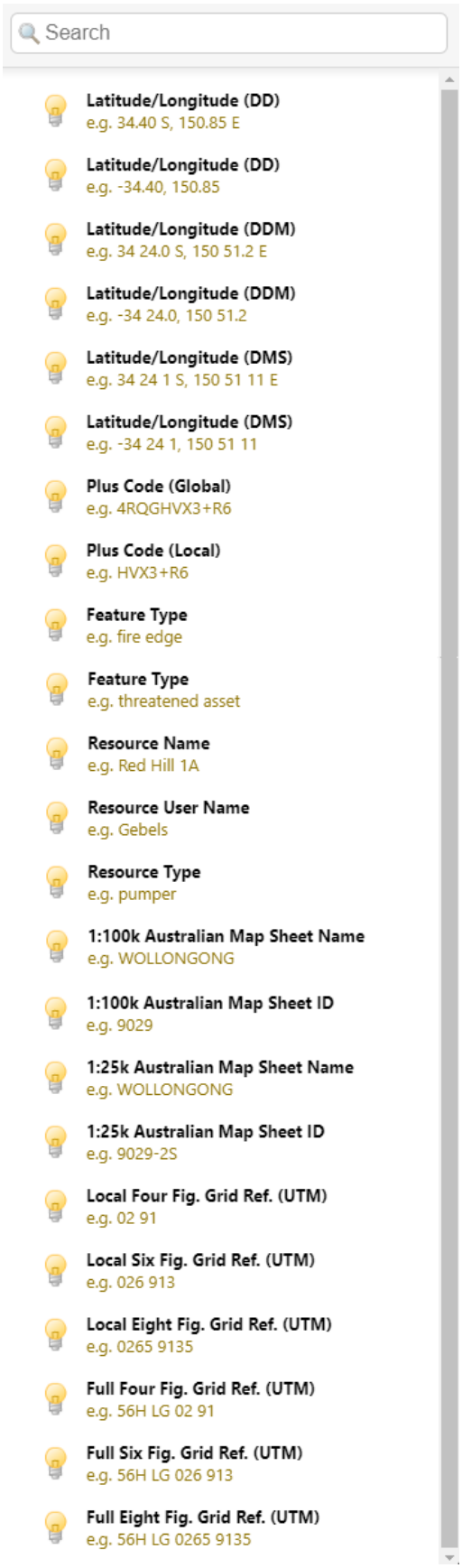
The *Search Tab* provides powerful search tools for a range of coordinate systems and data sources on the map. You may search for a particular feature type such as a spot fire or enter a coordinate system; the Portal will automatically detect the type of coordinate entered and locate it on the map.

An extensive suite of intelligent search options are available, including:

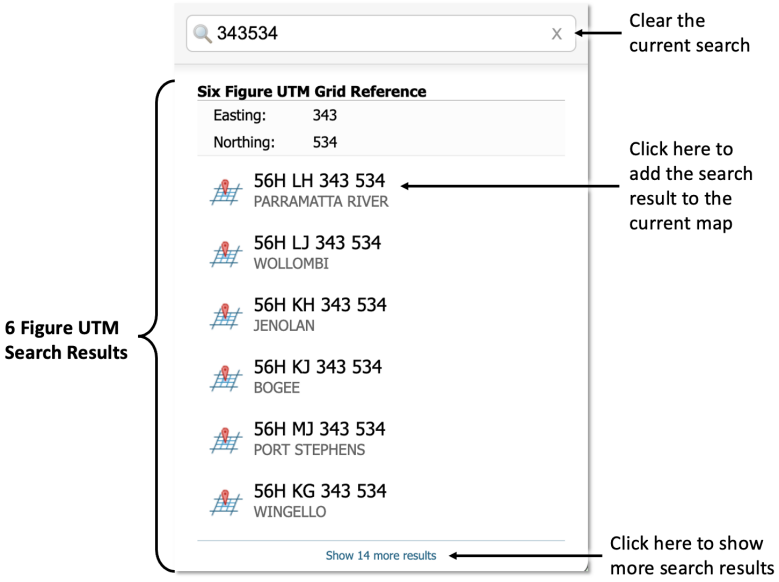
- Latitude/longitude, in DD, DDM and DMS
- UTM, in local and full 4, 6 and 8 figure references
- Plus Codes
- Australian Map Sheet Names and IDs
- FireMapper Feature ID
- Feature types, names and notes
- Location source types, names and registrations

In addition, the Portal will search the features and location sources on the map for any text you enter - this could be the name of a feature type or appliance, or part of the notes entered against a feature.

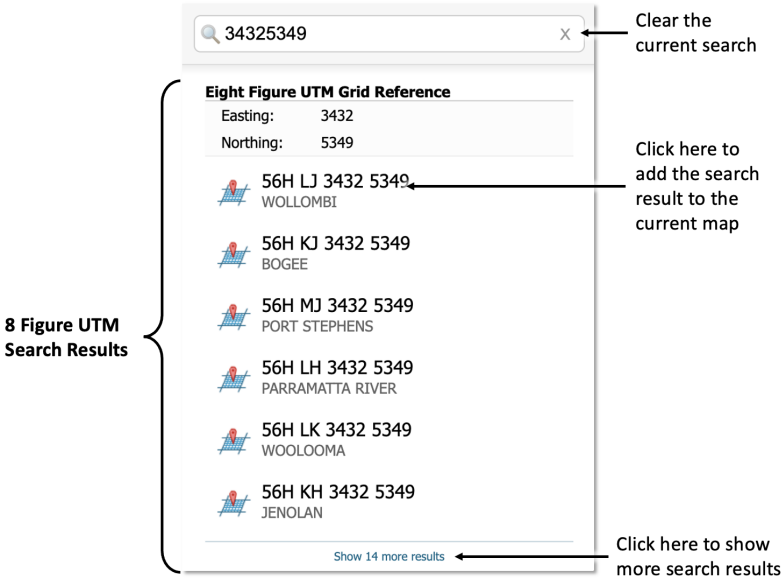
The examples below demonstrate how the Portal displays the results of a search term:


Search
Latitude/Longitude (DD)
e.g. 34.40 S, 150.85 E
Latitude/Longitude (DD)
e.g. -34.40, 150.85
Latitude/Longitude (DDM)
e.g. 34 24.0 S, 150 51.2 E
Latitude/Longitude (DDM)
e.g. -34 24.0, 150 51.2
Latitude/Longitude (DMS)
e.g. 34 24 1 S, 150 51 11 E
Latitude/Longitude (DMS)
e.g. -34 24 1, 150 51 11
Plus Code (Global)
e.g. 4RQGHVX3+R6
Plus Code (Local)
e.g. HVX3+R6
Feature Type
e.g. fire edge
Feature Type
e.g. threatened asset
Resource Name
e.g. Red Hill 1A
Resource User Name
e.g. Gebels
Resource Type
e.g. pumper
1:100k Australian Map Sheet Name
e.g. WOLLONGONG
1:100k Australian Map Sheet ID
e.g. 9029
1:25k Australian Map Sheet Name
e.g. WOLLONGONG
1:25k Australian Map Sheet ID
e.g. 9029-2S
Local Four Fig. Grid Ref. (UTM)
e.g. 02 91
Local Six Fig. Grid Ref. (UTM)
e.g. 026 913
Local Eight Fig. Grid Ref. (UTM)
e.g. 0265 9135
Full Four Fig. Grid Ref. (UTM)
e.g. 56H LG 02 91
Full Six Fig. Grid Ref. (UTM)
e.g. 56H LG 026 913
Full Eight Fig. Grid Ref. (UTM)
e.g. 56H LG 0265 9135

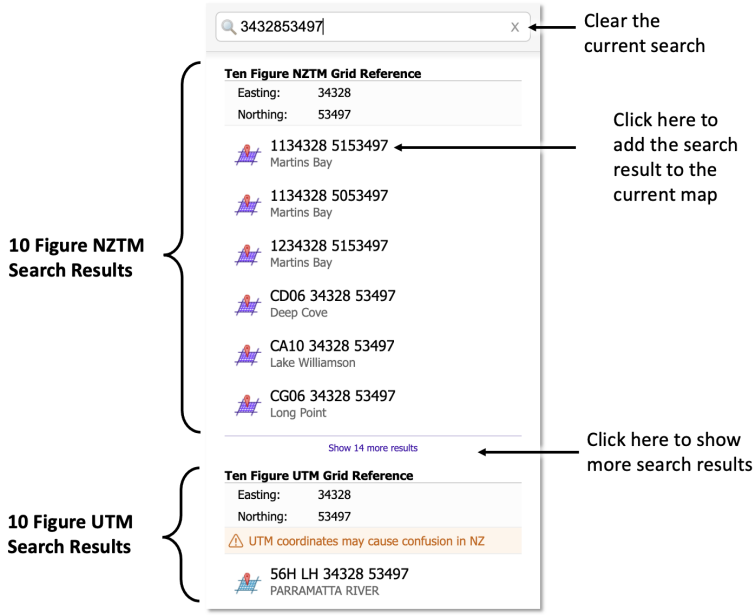
6 figure searching



8 figure searching

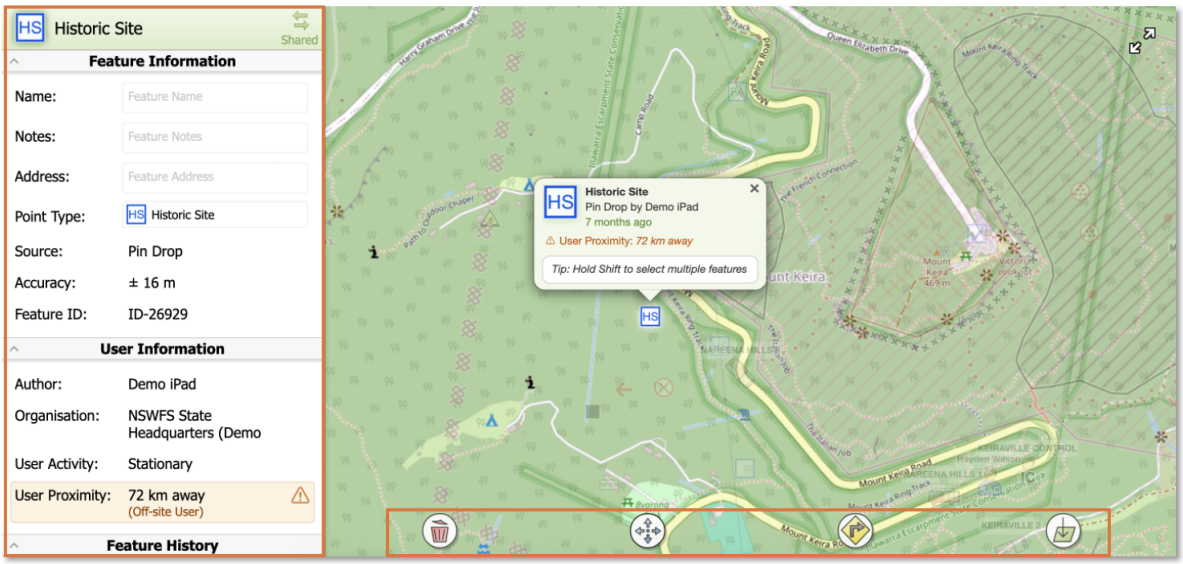


10 figure searching



3.1.2 Selecting Features

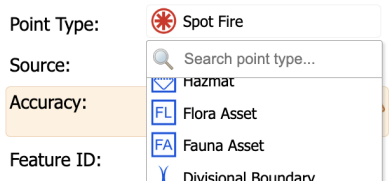
Select any feature to view details and perform actions on it. Feature details will appear in the sidebar. Available action buttons will appear in the bar at the bottom of the screen. Different actions are available depending on the type of feature selected and your permissions.



details *action buttons*

- **Details**

  - Edit the Name, Notes and Address of the feature by clicking the text fields.
  - Change the type of the feature by clicking on 'Point Type', and then selecting the new type from the drop-down menu.



  - View *previous versions* of the feature by toggling the < and > arrows in the Feature Version section.

- **Action Buttons**
  - General Actions

    Delete Feature: delete the selected feature. A confirmation dialog will appear before deletion.

    Download Feature: download the selected feature as a KML, GPX, GeoJSON, or Shapefile.
  - Point Specific Actions

    Move Point: move the point to a new location on the map. This is done by dragging and dropping the point.

    Rotate Point: rotate the point by 45 degrees. This only works on certain points that are directional (e.g., Wind Direction).

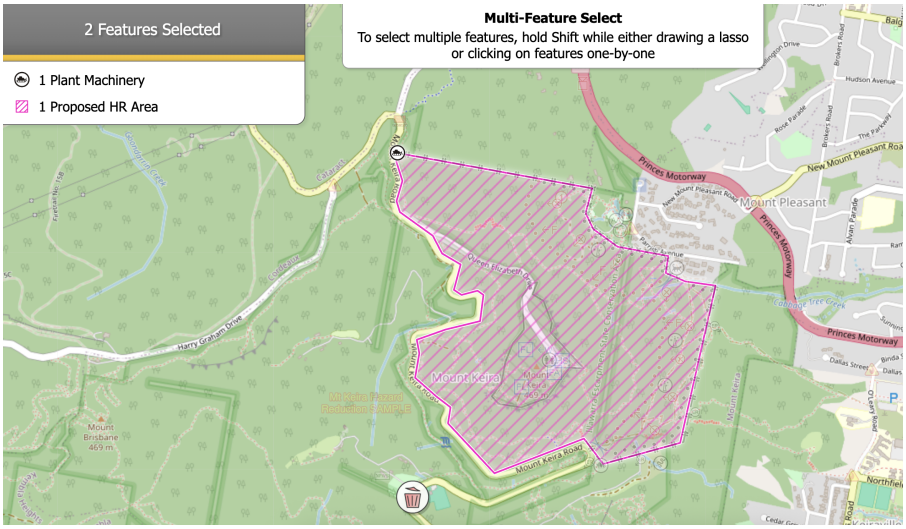
    Get Directions: open an **external** map application and navigate to the selected feature.
  - Line Specific Actions

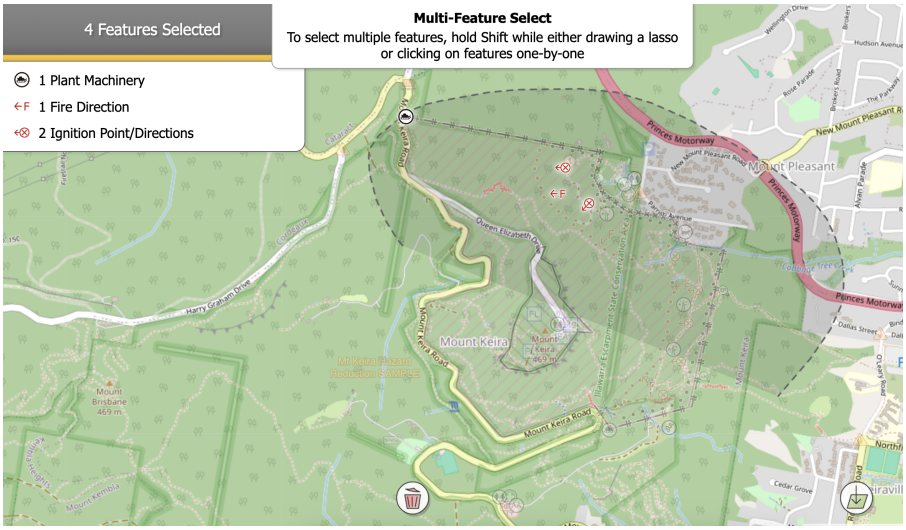
    Flip Line: reverse the direction of the selected line feature. This only works on certain line features that have a direction (e.g., Back Burns).
  - Line and Area Actions

    Enclose Area: convert the selected line into a area feature by enclosing the area within the line.

Edit Line: edit the selected line's shape.

Note: **To select multiple features**, use Shift+click to select individual features or hold down Shift and draw a lasso around them.

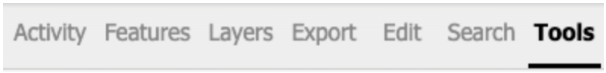




3.1.3 Elevation Profile

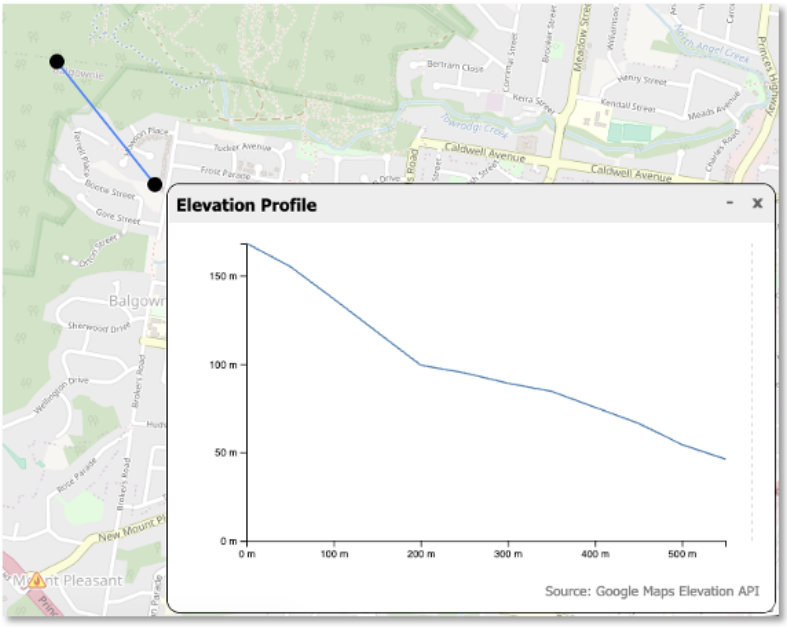
The Elevation profile is a Portal feature that enables users to anticipate how a fire might spread uphill or downhill, as well as the steepness of terrain when deploying resources. This tool can be used in two ways:

1. **Checking elevation using temporary points**
    - Navigate to the "Tools" tab in the sidebar



    - Select the "Elevation Profile" tool

    - Mark points on the map and watch the elevation profile appear in the bottom right corner of the screen

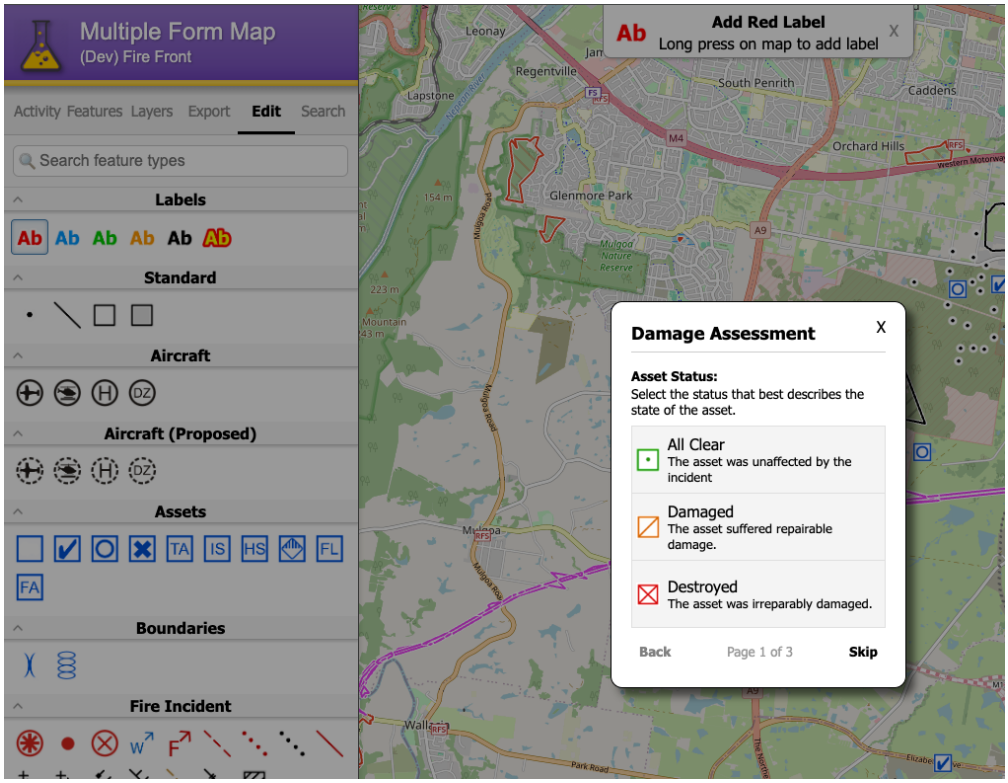


2. **Checking Elevation for existing line or areas**
    - Select an existing line or area feature on the map
    - Click the "Elevation Profile" button in the action bar at the bottom of the screen

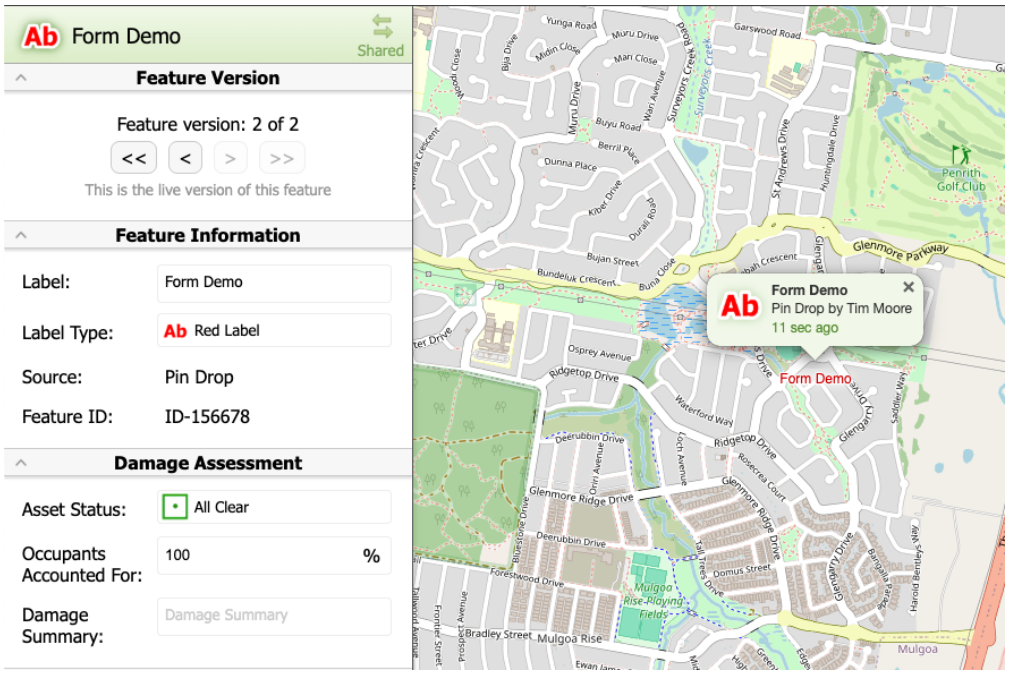
3.2 FireMapper Forms

3.2.1 Overview

FireMapper Forms is a tool for collecting field data using customisable forms. Forms are organisation specific and can be quickly defined as a combination of different field types, including text, number, and categorical fields. Forms can be attached to any point, line, area, or label type. When a user places a feature with a form attached, the form will automatically open for data entry.



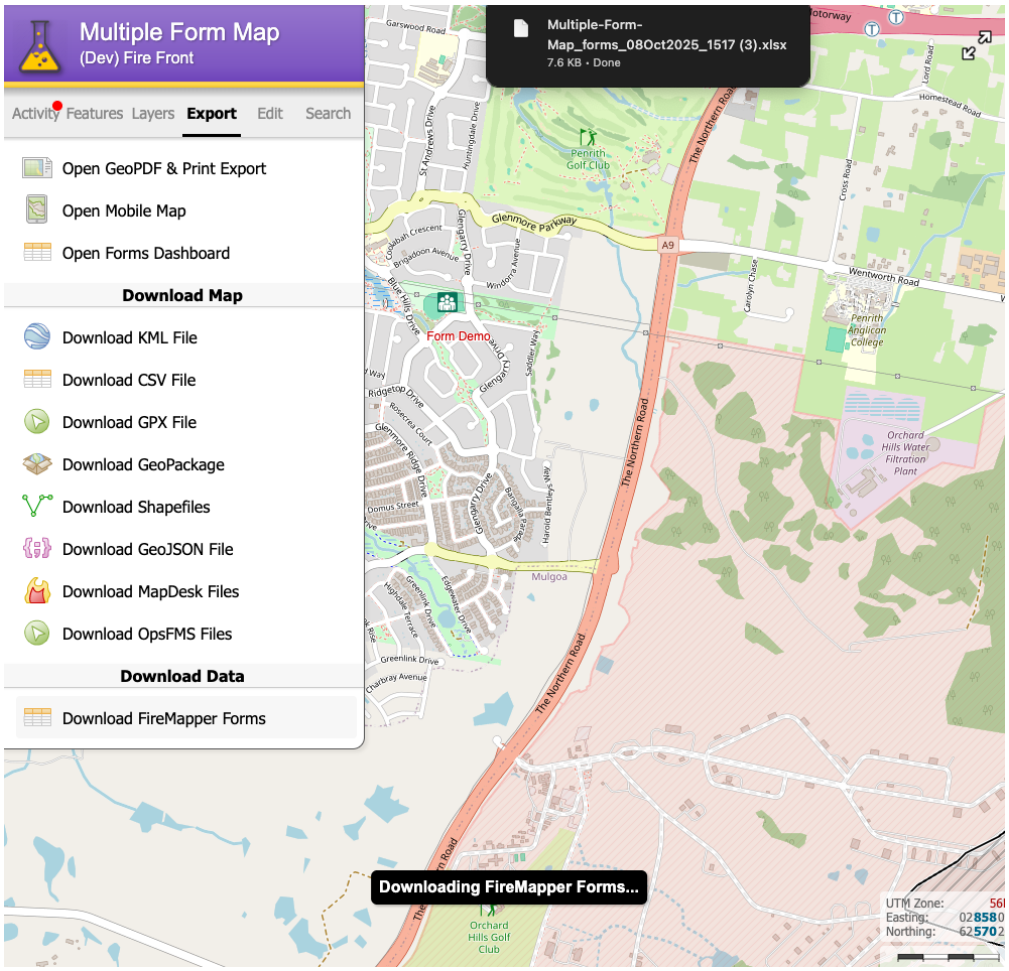
Saved form responses are attached to the feature on form completion and can be viewed by selecting the feature.



Any form responses can be edited in the feature details tab. Edits will create a new version of the feature, which means you will always be able to recover previous inputs. Form responses can be viewed both in the Portal and in FireMapper Enterprise.

3.2.2 Export

Form data can be exported from the *Export Tab* in the Portal Map Viewer. Simply click "Download FireMapper Forms", which will generate a spreadsheet containing only the latest response for each feature with a form attached.

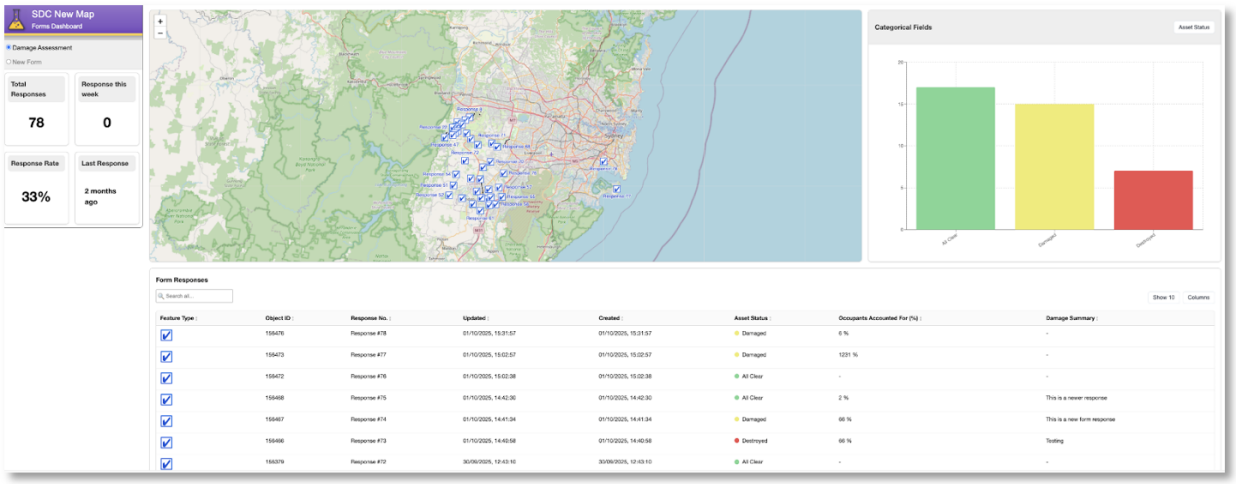


3.2.3 Configuring Forms

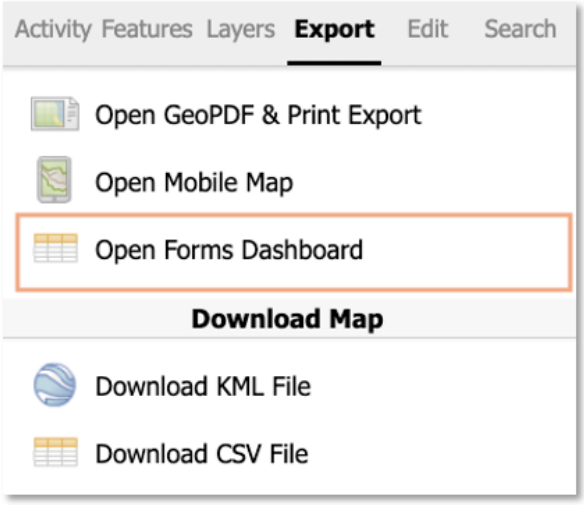
Currently, Forms can only be configured by contacting support@firemapper.app. We may allow organisations to create their own forms in future releases. We encourage you to get in touch if you're considering setting up a form.

3.2.4 Forms Dashboard

Built to work alongside FireMapper Forms, Forms Dashboard is a reporting and visualisation tool where you can access all form responses in a single view. These include the total number of responses, number of responses received in the current week, response rate and the last response time. You can also view the number of responses received over time in 30-minute intervals on a graph.



To access the Dashboard, select “Open Forms Dashboard” under “Export” in the Portal.



3.2.5 Details

- Multiple forms can be attached to the same feature type
- Once a map has been created, the forms configured for that map are frozen - meaning changes

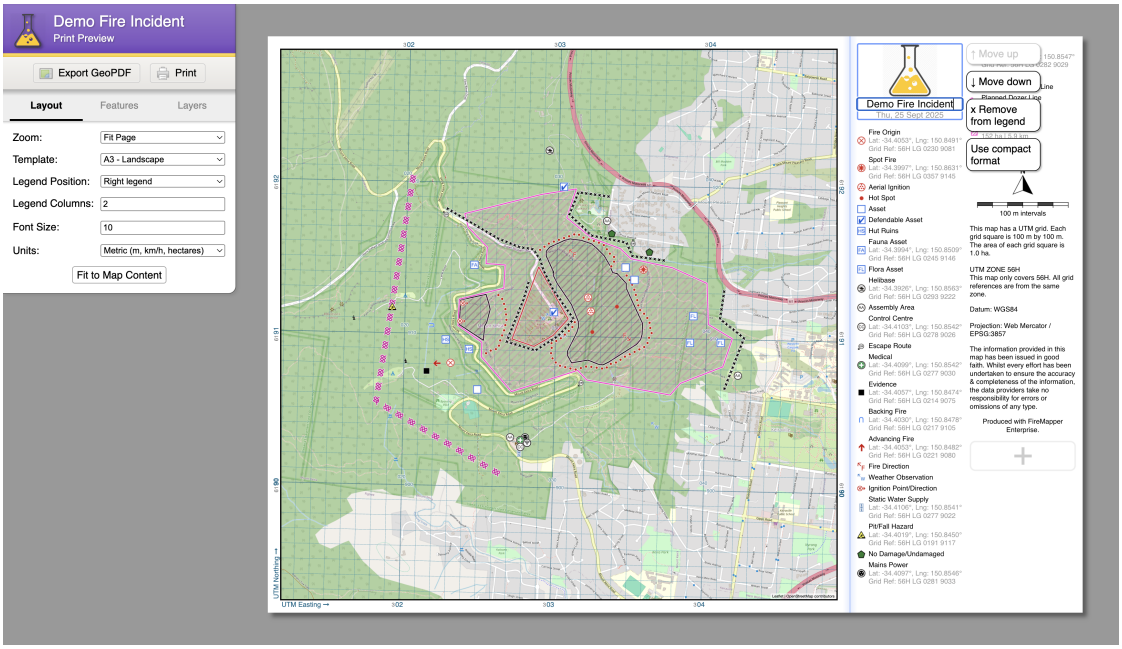
to forms will not affect maps that have already been created * Conditional form progression is not supported (i.e. answering “No” to question 1 then automatically jumping to question 5)

3.3 GeoPDF & Print Export

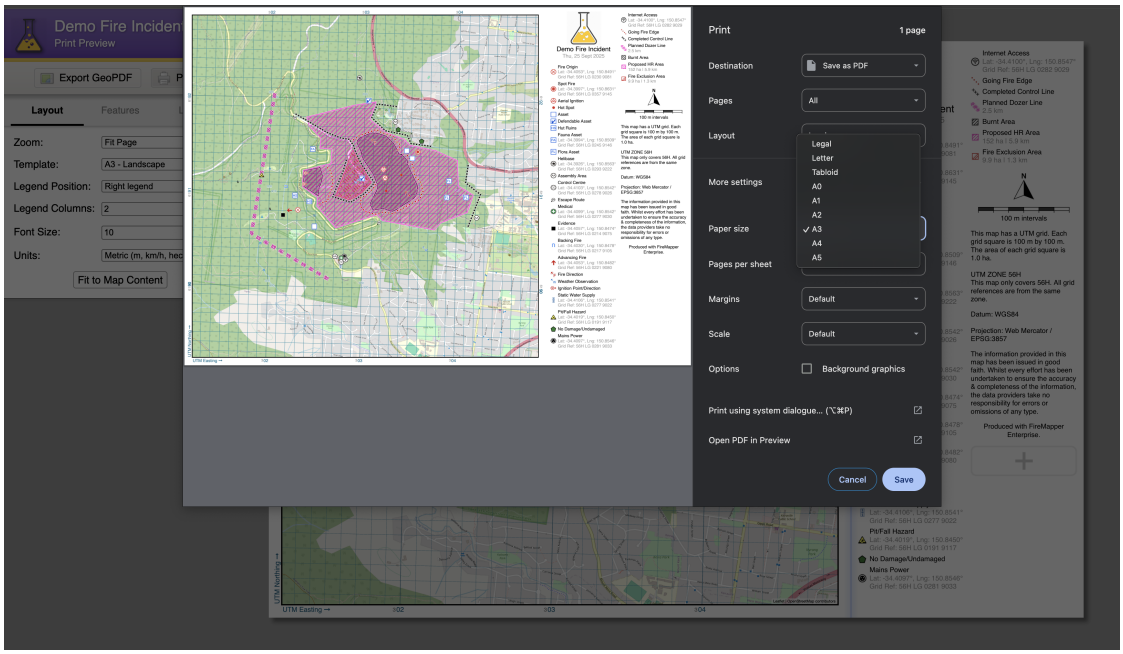
The GeoPDF Export Editor is a powerful and intuitive tool for creating professional-quality map documents for export to georeferenced PDF or print to paper. It is a "what you see is what you get" editor, allowing you to fully customise the map view and legend content before generating a georeferenced PDF (GeoPDF file). GeoPDF files can be loaded into popular GeoPDF readers such as Avenza Maps to view your location on the PDF. The GeoPDF Export Editor can be accessed from the *Export Tab* in the Portal Map Viewer.

Document-wide settings such as setting the base layer or which feature types are displayed can be configured in the sidebar on the left. The legend can be resized by dragging the blue divider, and the items in the legend can be modified by clicking on them directly. Some legend items such as the title and features list support overriding default values with custom text.

In the coming months, we plan to add support for saving custom Print Templates, so users can easily re-use their frequently used map configurations, such as when creating maps for Incident Action Plans, public information maps, or for aviation personnel.



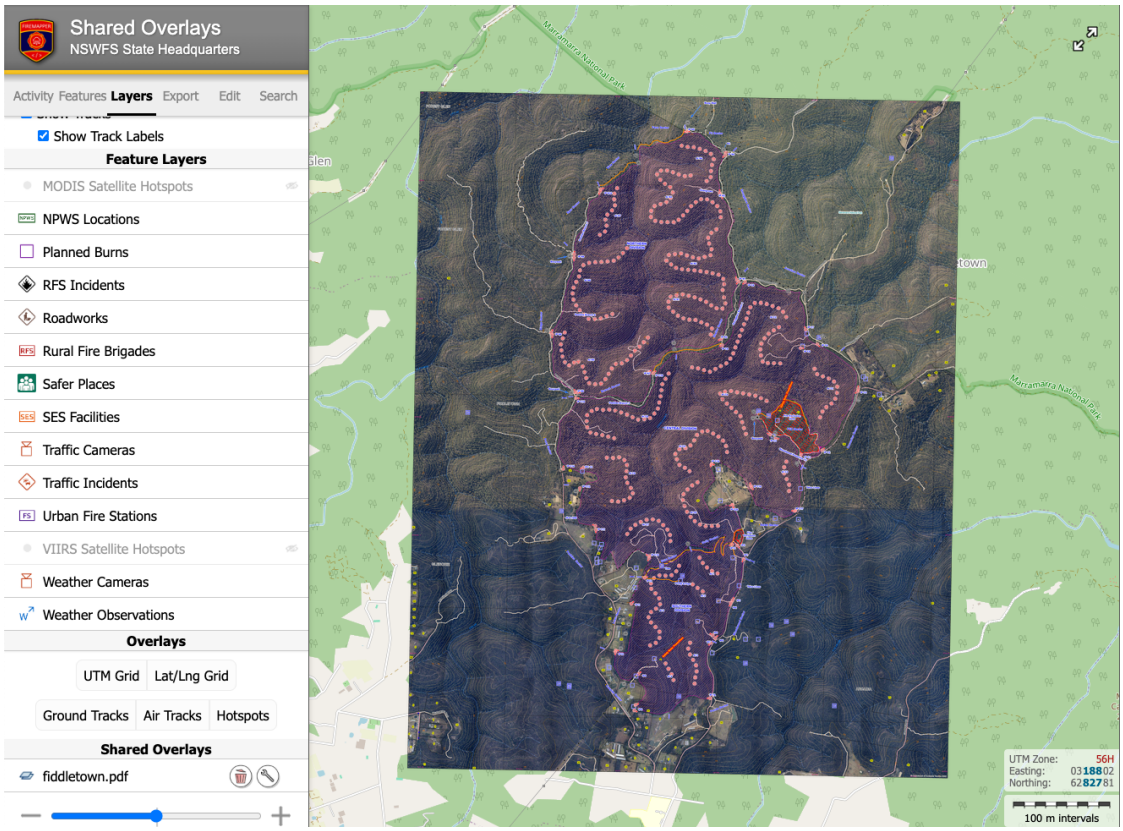
Even when printing to paper, we recommend first exporting to a GeoPDF file before then printing that file. FireMapper has no control over your web browser's print dialog, so if choosing to print directly from the browser, it is important to ensure that the page size and orientation in the browser print dialog matches the settings chosen in the GeoPDF Export Editor.



3.4 Shared Overlays (GeoPDFs)

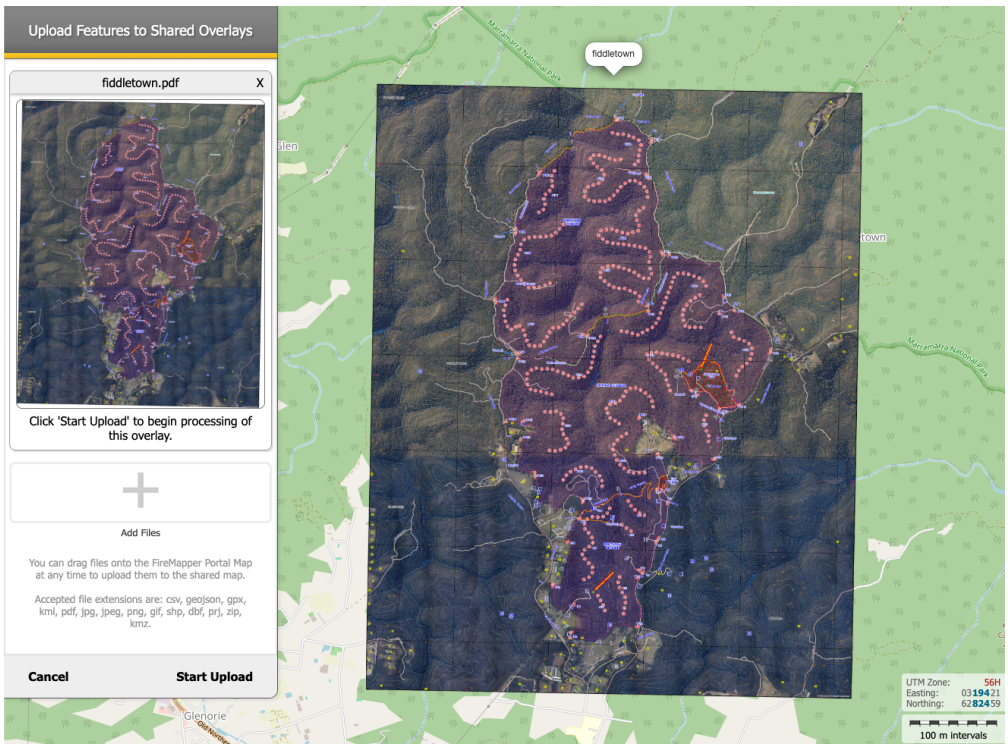
3.4.1 Overview

Shared Overlays or GeoPDF overlays is a world-leading capability within FireMapper that allows you to overlay geo-referenced PDFs on top of the map:

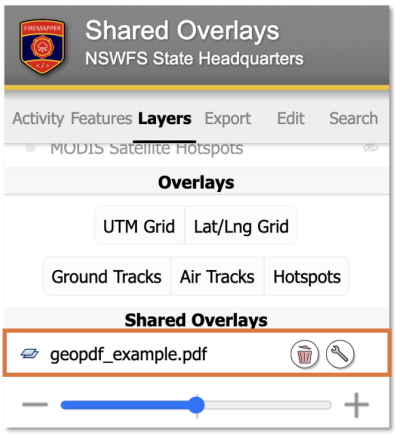


These overlays are visible to any user of the Portal Map or in FireMapper Enterprise.

To get started, simply drag and drop a georeferenced PDF into the portal map. If the file is a valid GeoPDF you will see a preview overlay on the map:



Click 'Start Upload' and wait until you see "Processing file. You may now close this tab.". The overlay will take a few minutes to process and you will be alerted via email when it's ready. To view the overlay, navigate to the "Layers" tab, scroll down to "Shared Overlays" and click the overlay you wish to view.



You can toggle the overlay on and off by clicking the panel. You can also adjust the opacity of the overlay with the slider control (after clicking the spanner icon).

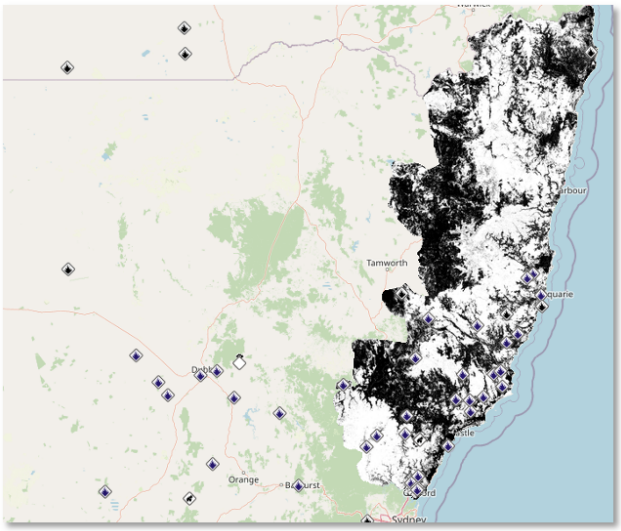
Should you have any issues uploading the GeoPDF, you can contact support@firemapper.app. If you are able to share the GeoPDF file with us, our technical team will help to upload it for you.

3.4.2 GeoTIFF Support

Similar to GeoPDF overlays, you can overlay multiple GeoTIFF files onto Shared Maps in the Portal. These can also be toggled on and off, or deleted via the Portal.

To import a GeoTIFF file onto your map, you can select Edit, followed by the Add File button. Once the file upload has been completed, your GeoTIFF file will be visible as an overlay.

Please note that the file size cannot exceed 1GB.

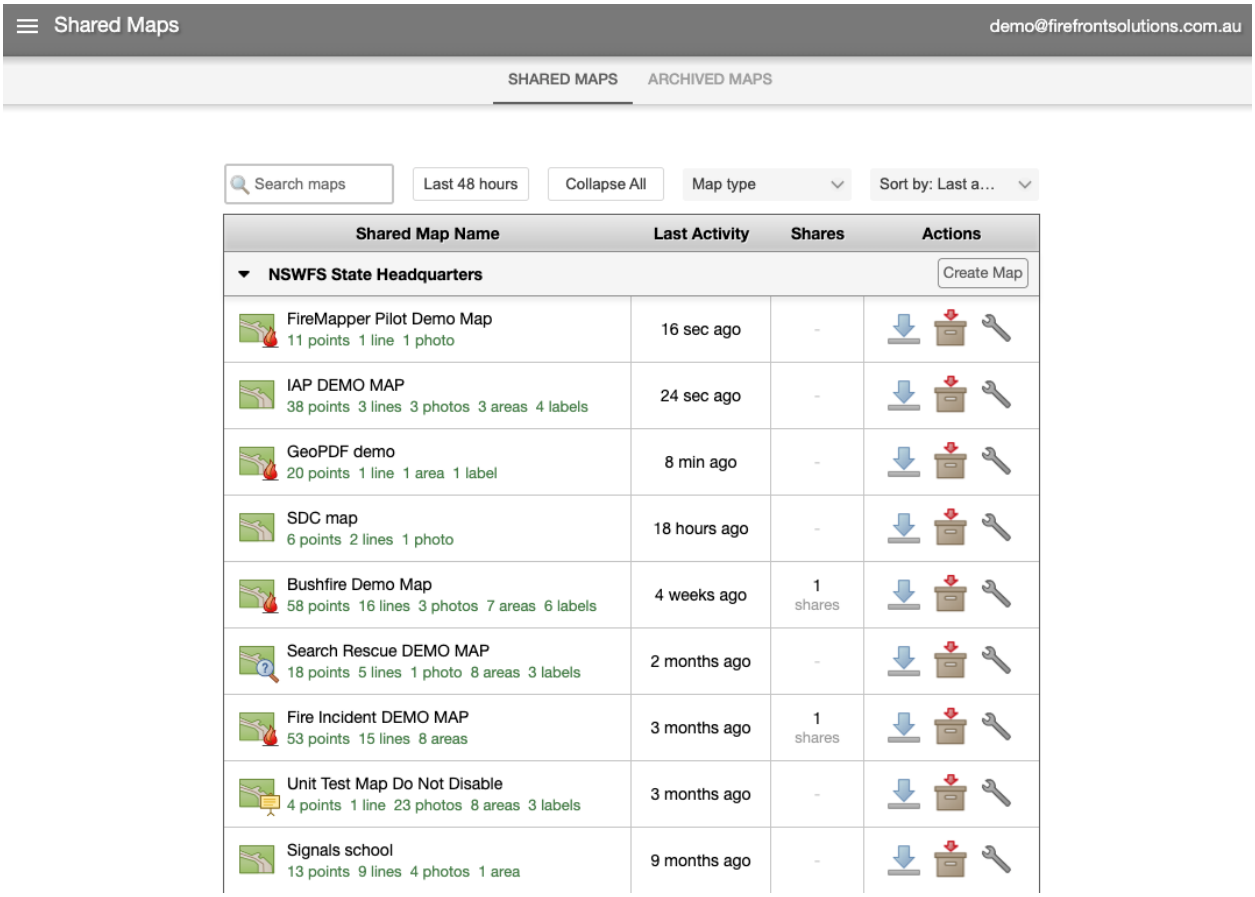


3.4.3 Notes

- Multiple overlays can be shown at once.
- Overlays are not included in Print Previews, or other Exports
- Overlays are map specific - you will need to upload the PDF to each map that you would like to display it on
- GeoPDFs may not exceed 20Mb
- There is a 5 minute processing time-limit for GeoPDFs - you could trigger this if you upload a large area at a high zoom-level
- The initial preview might look different to the final product - please continue with the upload regardless of the preview

3.5 Shared Maps

Observations shared from the FireMapper iOS and Android apps are organised into individual maps. When a feature is uploaded by FireMapper, it is organised in this table alphabetically by map name, and grouped by the organisation that owns the map.



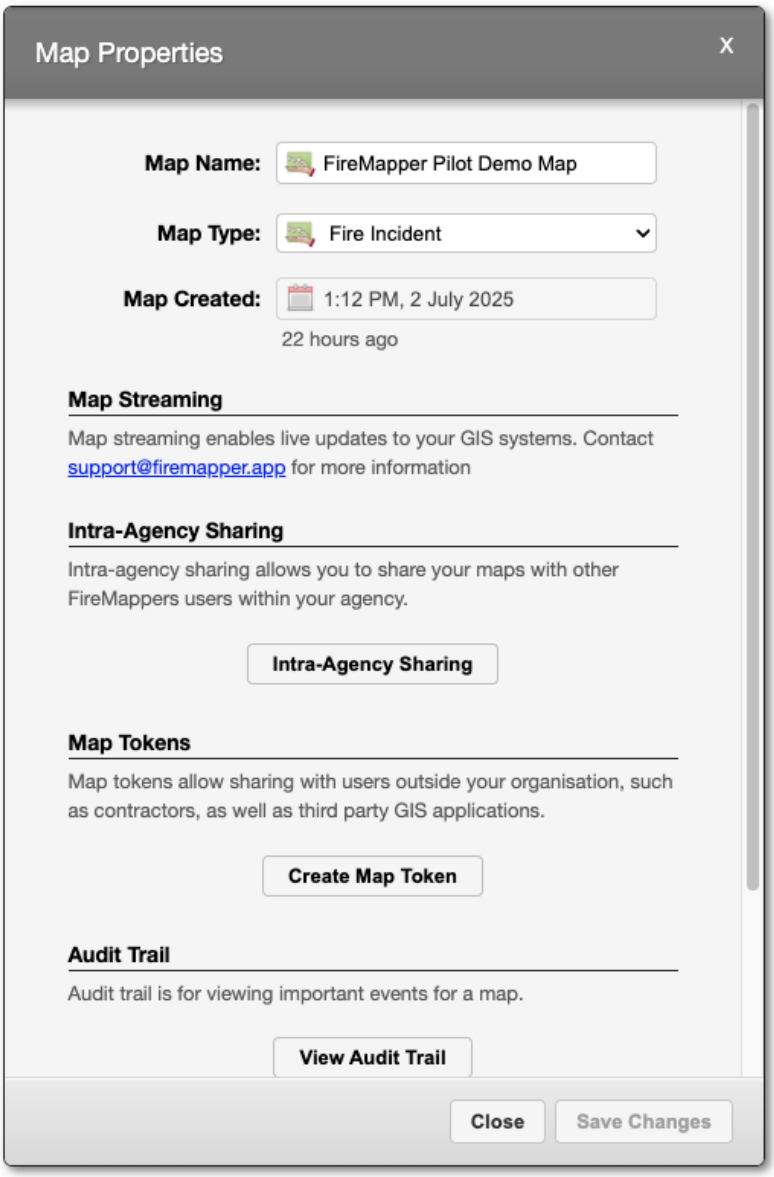
Download Map: displays multiple formats to download the map in including KML, KMZ, GPX, GeoPDF and Compressed Zip Folder.

Archive Map: moves a map into the archive, meaning it is no longer visible in the FireMapper shared map lists.

Map Properties: allows viewing and editing the properties of the map.

3.5.1 Map Properties Dialogue

All map specific management is done through the **Map Properties** dialogue.



- **Map Name** must be at least 5 characters long and can only contain letters, numbers, and spaces.
- **Map Type** can be set. The following map types are available:
  - Fire Incident
  - Storm & Flood Incident
  - Search & Rescue
  - Training / Exercise
  - Hazard Reduction
  - Pre-incident Plan

  - Data Collection
  - Police Operation
  - Other
- **Map Tokens** shares the map with those outside of your agency or hierarchy subgroup. *Read More*.
- **Intra-agency Sharing** shares the map with users within your agency, but outside of your FireMapper hierarchy subgroup.

Note: Additional map properties are available. Contact us to set these up:

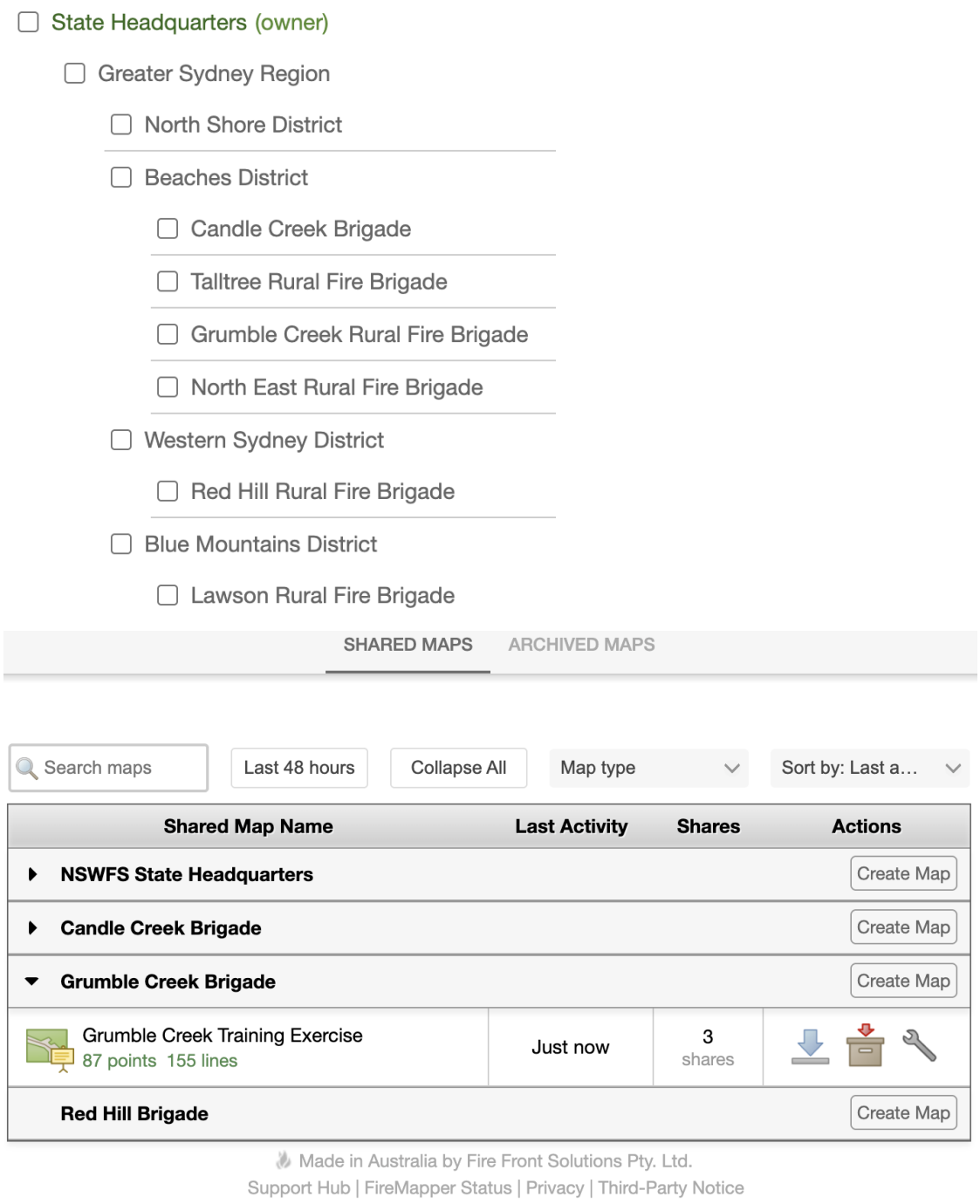
- **Map Streaming** allows real-time automatic pushes of all map edits into your GIS systems.
- **Delete Map** allows you to permanently delete a map. This cannot be undone.

3.5.2 Intra-agency Sharing

If your profile has a FireMapper hierarchy set up, you will see the **Intra-agency Sharing** option in the Map Properties dialogue.

FireMapper Hierarchy

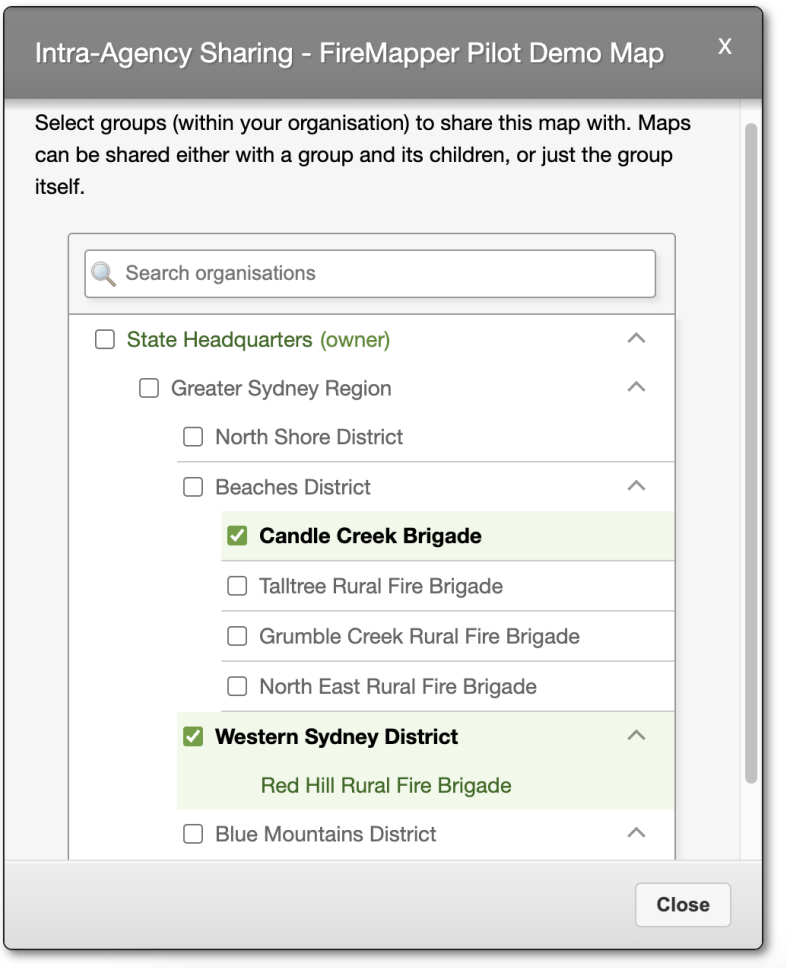
The FireMapper hierarchy is a way to organise your agency's users and maps into a tree-like structure, typically defined by region or function. This separation ensures that users only see maps that are relevant to them, resulting in a cleaner and more organised Shared Maps experience, as well as increased organisational responsibility at more local levels.



Note: FireMapper supports linking separate subscriptions together to enable flexible sharing of maps between brigades or teams. If your subscriptions are "linked", sharing maps will be easier.

Using Intra-agency Sharing

To share maps within across the FireMapper hierarchy, select the **Intra-agency Sharing** option in the Map Properties dialogue of the map of interest. Then, tick the groups you want to share the map with. You can select multiple groups, or even the top-level group to share with all users in your hierarchy. Changes are applied instantaneously and reflected in the Shared Maps list of FireMapper users on their devices and in the Portal.



3.6 Map Tokens

Map tokens are a quick and powerful way to share individual maps with non-FireMapper users, 3rd party agencies and external applications. Each map token is a QR code/URL that provides controlled access to an individual map. They are designed for quickly sharing a map during an incident in a user friendly format.

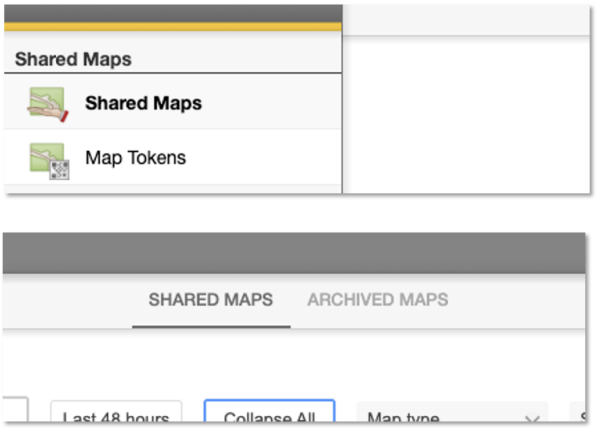
Typical use cases for this functionality include:

- Sharing a map with a FireMapper user from a different agency when deployed to a joint incident
- Plugging into to external GIS tools such as ArcGIS Online, QGIS Desktop, Avenza

- Providing temporary map viewing or editing access to a 3rd party during an incident

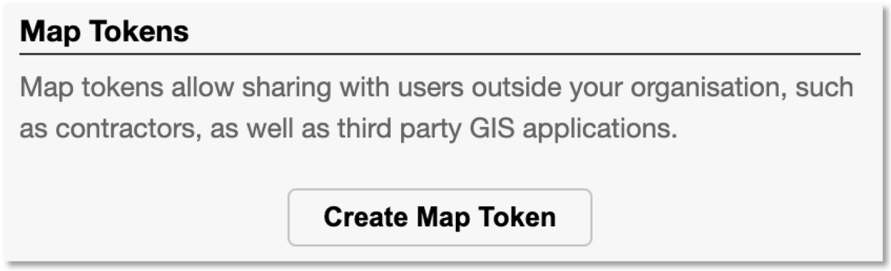
3.6.1 Creating Map Tokens

1. Go to the **Shared Maps** page using the navigation sidebar and select the **Shared Maps** tab at the top of the screen



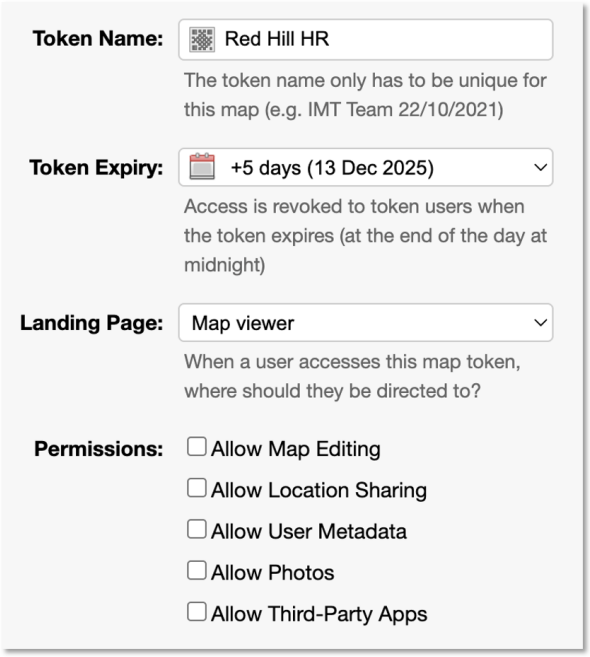
2. Locate the map you want to share and click its **Map Properties** button.

3. Scroll to the bottom of the dialog and click **Create Map Token**.

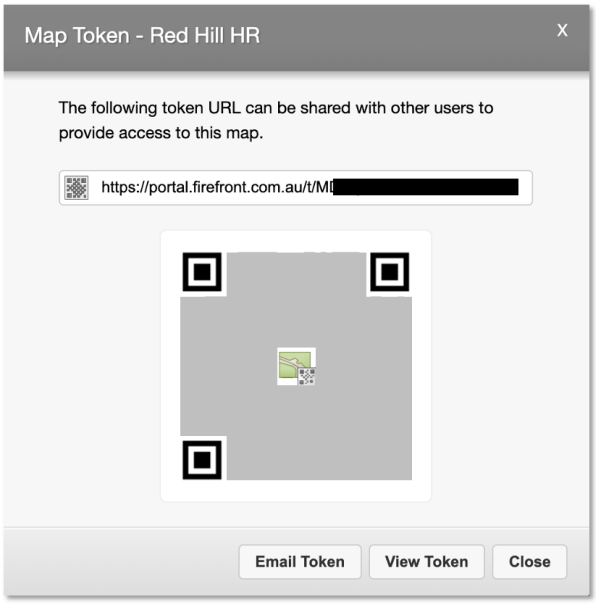


4. Enter Token Details.
   - The **Token Name** should reflect the purpose and intended recipient of the token, to ensure traceability of the token and control of access. It is possible to have multiple tokens for the same shared map, eg. one for IMT *(Manly Dam HR IMT)* and one for firefighters *(Manly Dam HR Ground Crew)*.
   - **Map Tokens automatically expire** to prevent long term unauthorized access to your maps. The expiry will default to 5 days, but can be adjusted to 30 days. Contact FireMapper Support to request greater expiry durations if required. After creating a Token, you may edit the expiry.
   - The **Landing Page** of the map token can be set to either the map itself or a detailed summary landing page
   - **Custom permissions** may be set for each Token to restrict access to the map. The permissions include:

- *Allow Map Editing* - add, modify and delete features on the map. Users can edit the map using the web browser, ArcGIS Online, ArcGIS Pro or any third party application that can connect via a ArcGIS FeatureServer endpoint.
- *Allow Location Sharing* - view organisation's resource locations (eg. TracPlus, ADS-B, FireMapper users).
- *Allow User Metadata* - view feature metadata, including author information.
- *Allow Photos* - view photos that have been shared on the map.
- *Allow Third Party Apps* - open the map data in external GIS applications, such as QGIS, Avenza Maps and Google Earth.

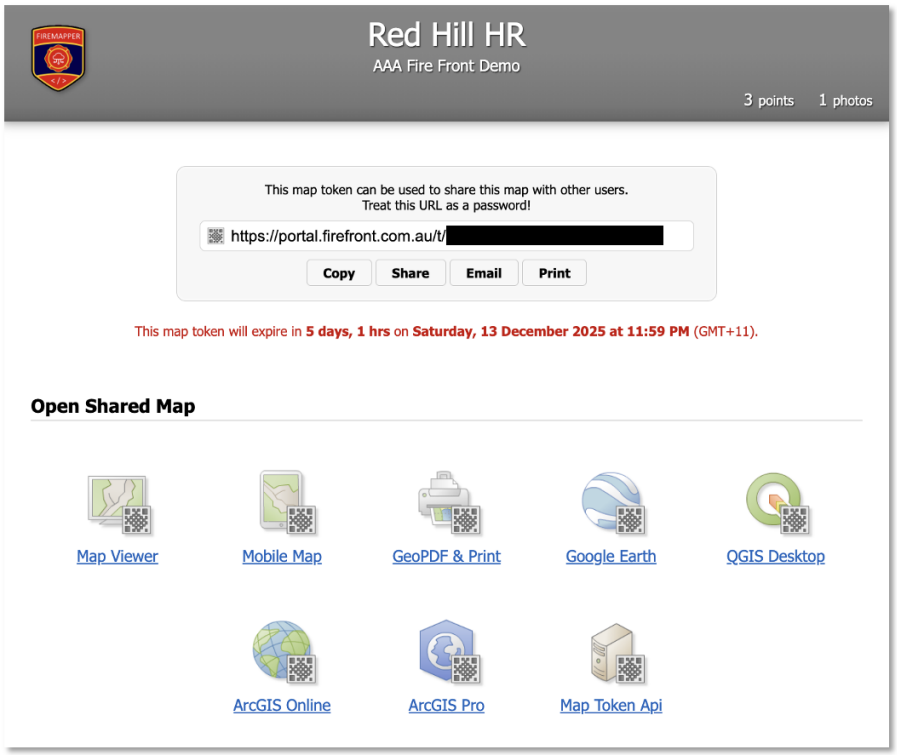


5. The generated map token will be displayed. It can be shared in either QR-code or URL format to grant access to the map until the token expires or is revoked.



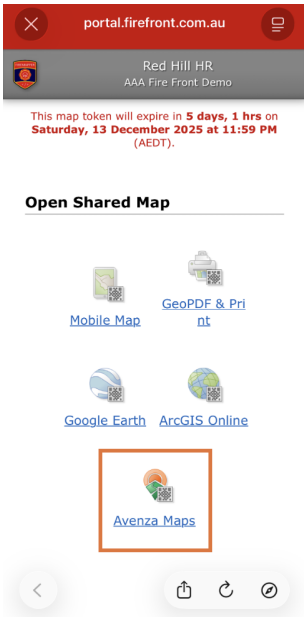
3.6.2 Opening Map Tokens

If the Token as been set to land on the detailed summary page, it will open as a webpage. This webpage contains options to view, share or print the map.



If the Token also has the 'Allow Third Party Apps' permission enabled, the webpage allows the map to be downloaded as a *KML, KMZ, GPX, GeoPackage, Esri Shapefile or CSV* file, or to be opened in *ArcGIS Online, ArcGIS Pro, QGIS Desktop or Google Earth*.

Note: If it is opened on a mobile device, the map can also be opened in *Avenza Maps*, if it is installed.

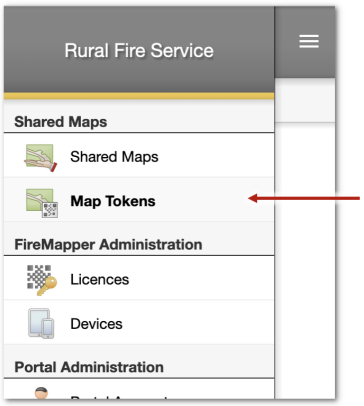


3.6.3 Viewing Map Token Activity

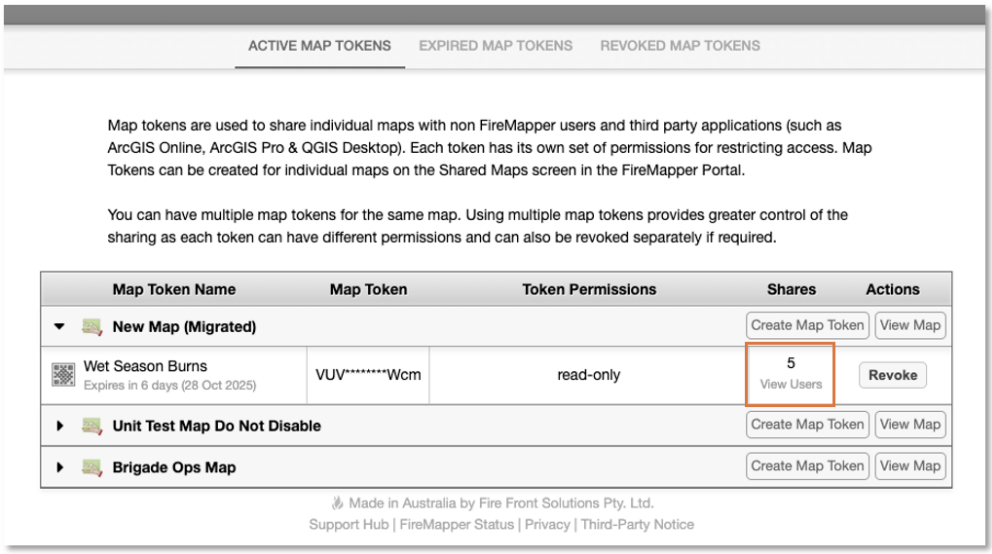
When users access the Map Token for the first time, they are prompted to enter their first and last names. This information, as well as the platform they used to access the Map Token (e.g., FireMapper mobile apps, web, ArcGIS) is thus visible in the portal. This allows the creator of the Map Token to have visibility over how often the Map Token is being used and who is accessing the shared map.

To view Map Token Activity,

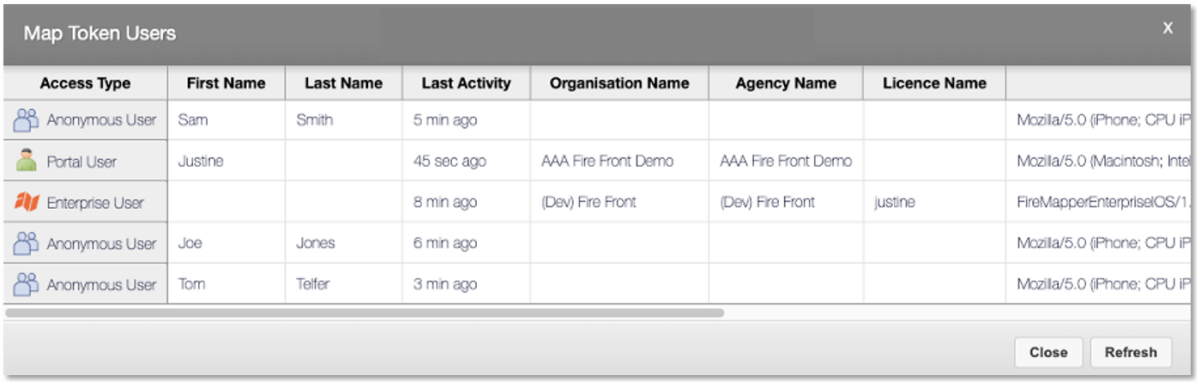
1. Go to the **Map Tokens** page using the Portal sidebar



2. Locate the Map Token of interest, and click 'View Users' the **Shares** column



You can now view the list of users who have accessed the specific map token.

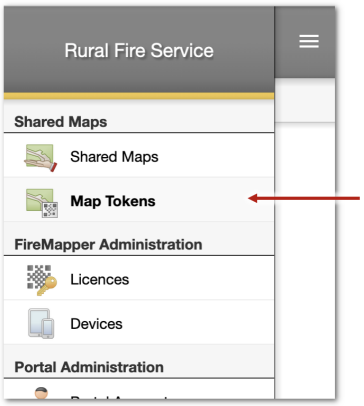


Note: FireMapper also supports One Time Password authorisation with Map Tokens, get in touch if you're interested in adding this to your profile.

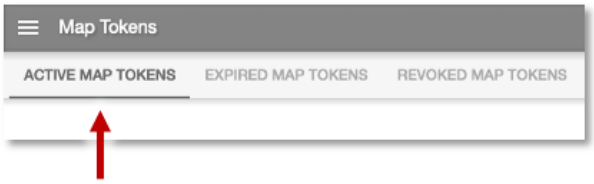
3.6.4 Revoking Map Tokens

Once a Map Token is no longer required, it can be manually revoked to prevent unauthorised use.

1. Go to the **Map Tokens** page using the Portal sidebar



2. Select the **Active Tokens** tab at the top of the screen.



3. Find the **Map Token** that you want to revoke in the table. Click the **Revoke** button on the right side of the table.

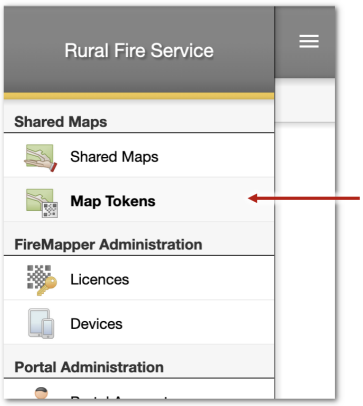
Note: If you Archive a map from the Shared Maps page, access via all Map Tokens will be automatically revoked to prevent unauthorised access to the Archived map.

3.6.5 Renewing Map Tokens

Once a Map Token has expired it can no longer be used to access the map.

However, if a user still needs to use an expired token, you can renew the expired token to quickly restore access to the shared map.

1. Go to the **Map Tokens** page using the navigation sidebar in the FireMapper Portal



2. Select the **Expired Tokens** tab at the top of the screen.

3. Click the **renew** button on the right side of the map token that you want to renew. The orange background is used to highlight the map tokens that are have expired.
4. Click **Renew** to confirm that you want to Renew the map token.

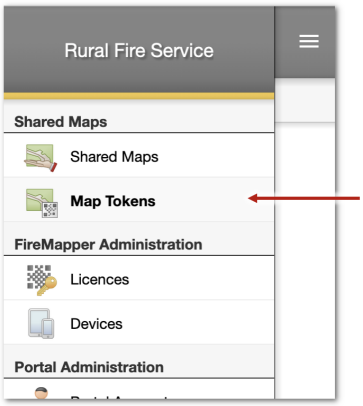
   This will update the expiry date for the map token so it is one week into the future, so the map token is no longer expired. Users will now be able to access the map token for the next week.

   It is possible to change the expiry date, to a different date after renewing a token, by going to the active tokens tab and editing the map token.

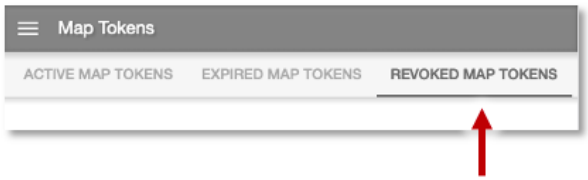
3.6.6 Reactivating Map Tokens

A Map Token can be reactivated if it has been revoked and needs to be used again. This is useful if you revoke an Map Token by accident. Reactivating a token allows you to use the same QR code.

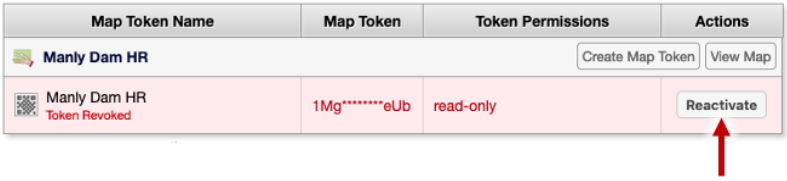
1. Go to the **Map Tokens** page using the navigation sidebar in the FireMapper Portal



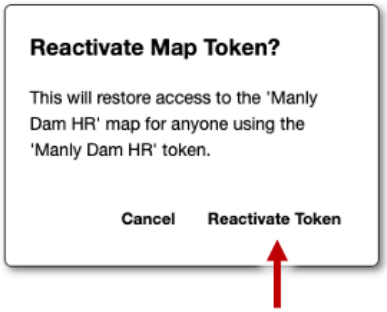
2. Select the **Revoked Tokens** tab at the top of the screen.



3. Click the **Reactivate** button on the right side of the table for the map token that you want to restore. The red background is used to highlight the map tokens that are currently revoked.



4. Click **Reactivate** to confirm that you want to Reactivate the map token, so anyone who has the map token URL/QR code will be able to access the shared map again.



5. Users will now be able to use the map token that you have reactivated. The Map Token URL/QR Code will still be the same as it was before. If users had tried to access the map token while it was revoked in the web browser, they may need to refresh the webpage.

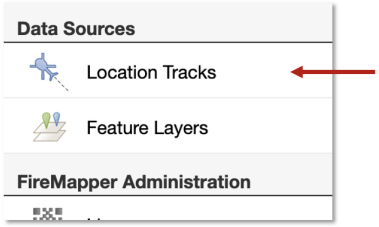
3.7 Location Tracks

The Location Tracks page displays active aircraft, appliances and personnel in FireMapper, including location sources from FireMapper devices as well as other third party integrated sources such as TracPlus, AVL.

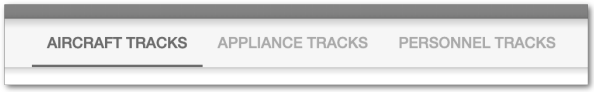
The table displays the last known location for recently active location tracks in latitude/longitude coordinates and UTM coordinates.

3.7.1 View Individual Track Location

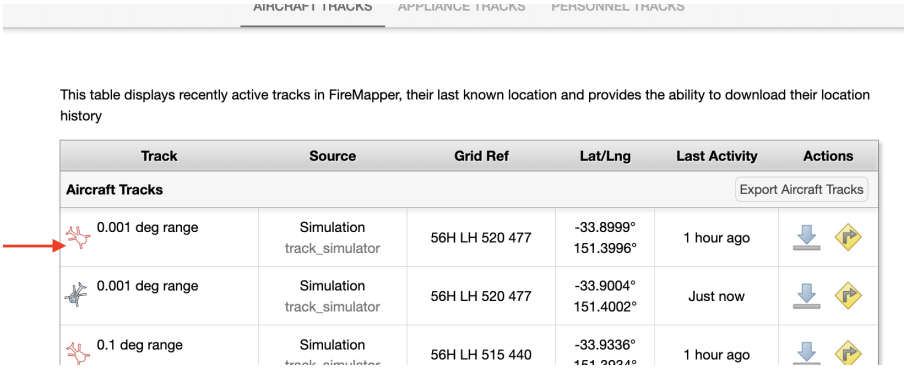
1. Select **Location Tracks** in the navigation sidebar



2. The location tracks are organised into three groups **Aircraft Tracks**, **Appliance Tracks** and **Personnel Tracks** based on the resource type for the track. Use the tabbar to switch between track types.



3. Click on a location source to view additional information about the source, including a map showing the latest location.



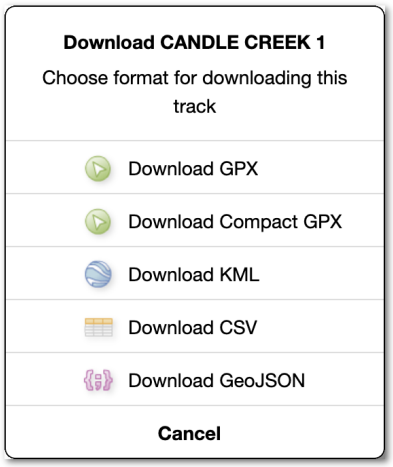
4. You can click a field such as 'UTM Coordinates' to copy the coordinates to the clipboard.

3.7.2 Downloading Track History

You can export the last 2hrs for any track as a GPX, CSV KML or GeoJSON file. All download formats use the WSG-84 Datum (ESPG-4326).

1. Click the **Download** button next the track that you want to download

2. Select the file format that you want to use for the track download. Use the CSV or GPX file format if you need timestamps for each location update in the track history. The Compact GPX format, does not contain the GPS timestamps for each location update.

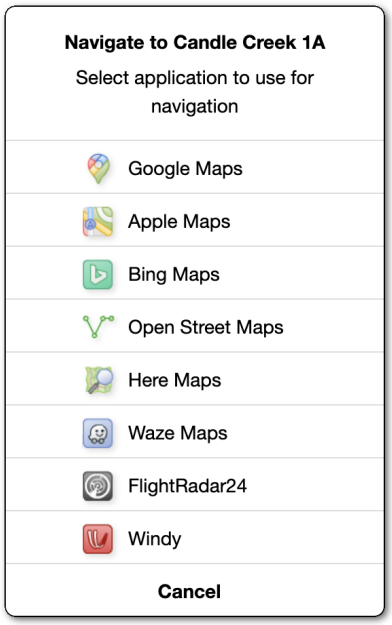


3.7.3 Navigation to Track Location

The Navigate To button allows you to quickly navigate to the last known location of a track, without needeeding to manually copy coordinates.

1. Click the **Navigate To** button next to the track that you want to navigate to.

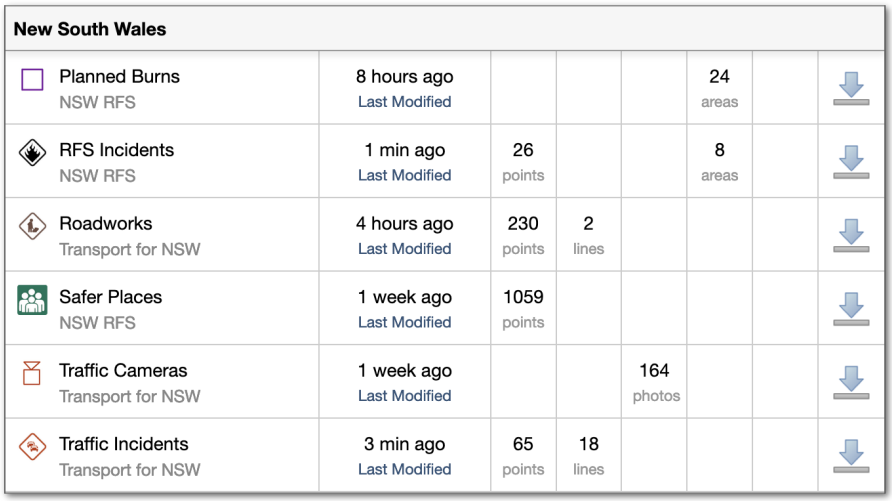
2. Select the **mapping application** that you would like to use. This will automatically open the application/website and display the last known location in the third party app.



3.8 Live Feeds

The Live Feeds page displays a list of all the integrated live feeds that are available across all maps in FireMapper. These overlays are designed to improve situation awareness.

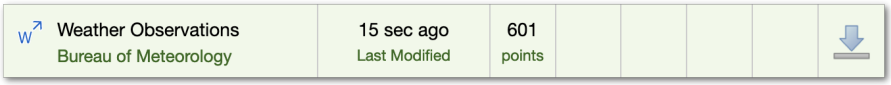
There are over 50+ public live feeds that are automatically updated from external sources including Traffic Incidents Feeds, Fire Incident Feeds, Traffic/Weather Cameras, Roadworks, Road Closures, Satellite Detected Hotspots, Current Alerts and Warnings, File Stations and more.



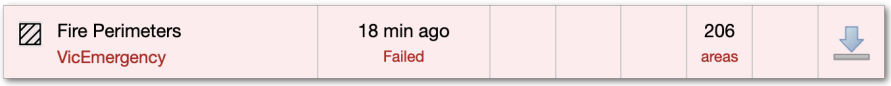
The list of live feeds are configured per FireMapper subscription and can contain a combination of public and private data sources. Additional layers can be added on request.

3.8.1 Live Feed Status

The live feeds table is automatically updated every 5 seconds to displays the status of each live feed. If a feed has recently been updated in the last 60 seconds, it will be highlighted with a green background.

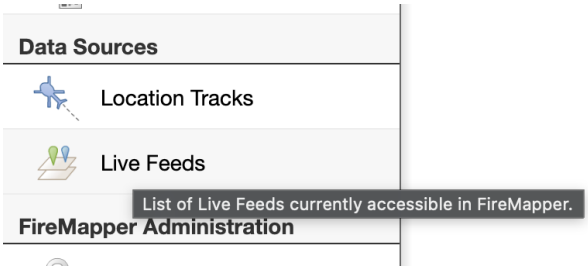


If the last update has failed for a specific live feed, it will be highlighted with a red background. The update can fail for a number of reasons such as an error while connecting to the remote server or changes to the feed format. FireMapper will continue to display the cached data from the last successful update when an error occurs. The error state will automatically be cleared on the first successful update after the failure. More information about the live feed error can be obtained by contacting support.

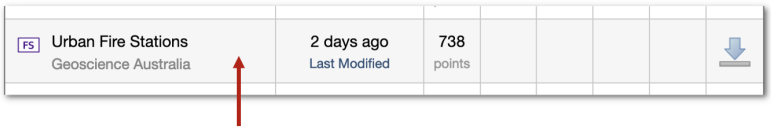


3.8.2 Viewing Individual Features

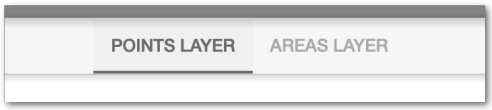
1. Open the **Live Feeds** from the navigation sidebar.



2. Select the live feed from the table that you want to view.

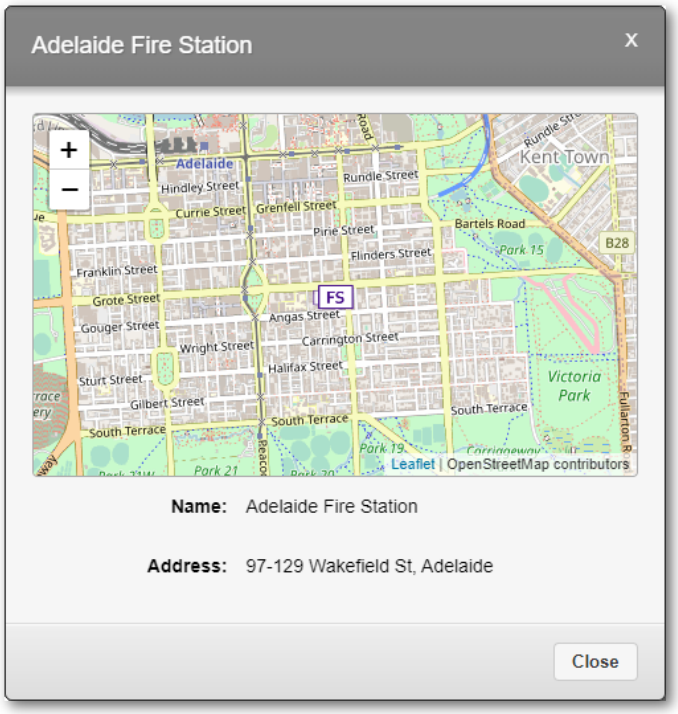


3. Use the tab bar to switch between layer types if the live feed has more than one type.

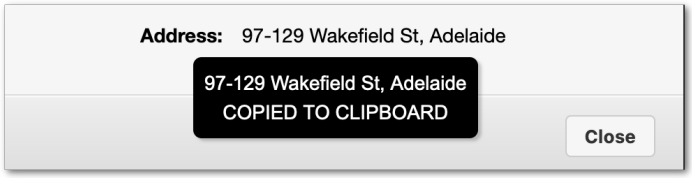


4. You can select an individual feature in the table to view additional information

5. A dialog will appear for the selected feature. This will include a map preview and a list of all the attributes for the selected feature.



6. Click a field if you want to copy the value to the clipboard



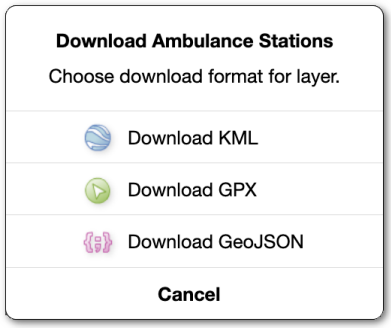
3.8.3 Downloading a Live Feed

You can export the latest version of live feed using the download button. This will generate a static file for the exported feed. All download formats are in the WSG-84 Datum (ESPG-4326).

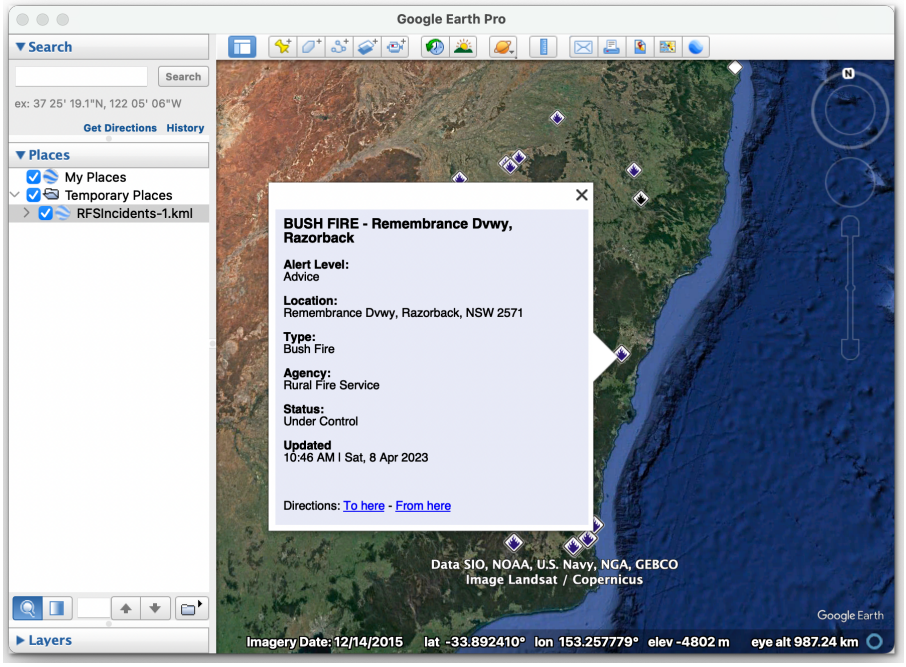
1. Click the **Download** button on the live feed that you want to download.

2. Select the **export format** that you would like to use from GPX, KML or GeoJSON, based on the application that you want to export to.

   Use the KML export format if you want to display the live feed in Google Earth Pro, ArcGIS Online, ArcGIS Pro or FireMapper client. The KML format is the only format that includes map symbology and links for Photos/PDFs file attachments.

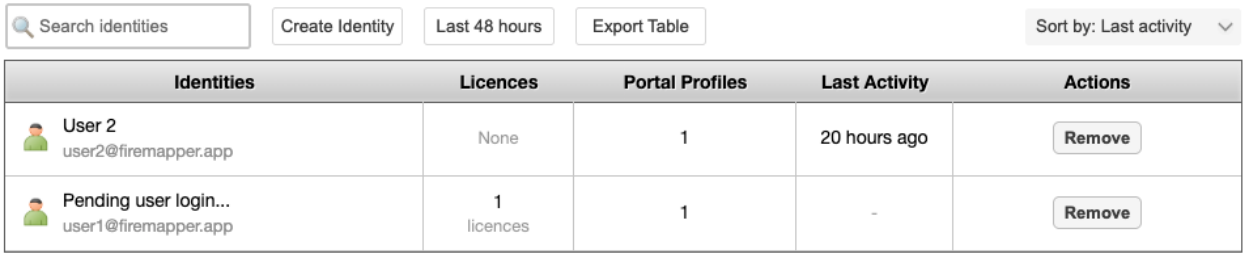


3. Open the export file in the desired application (e.g. Google Earth Pro).



3.9 Identities

FireMapper identities are a way to unify organisation SSO, FireMapper Portal and FireMapper Enterprise licences. This allows users to log in to the FireMapper Portal and mobile app using their organisation credentials, providing a seamless experience across platforms.



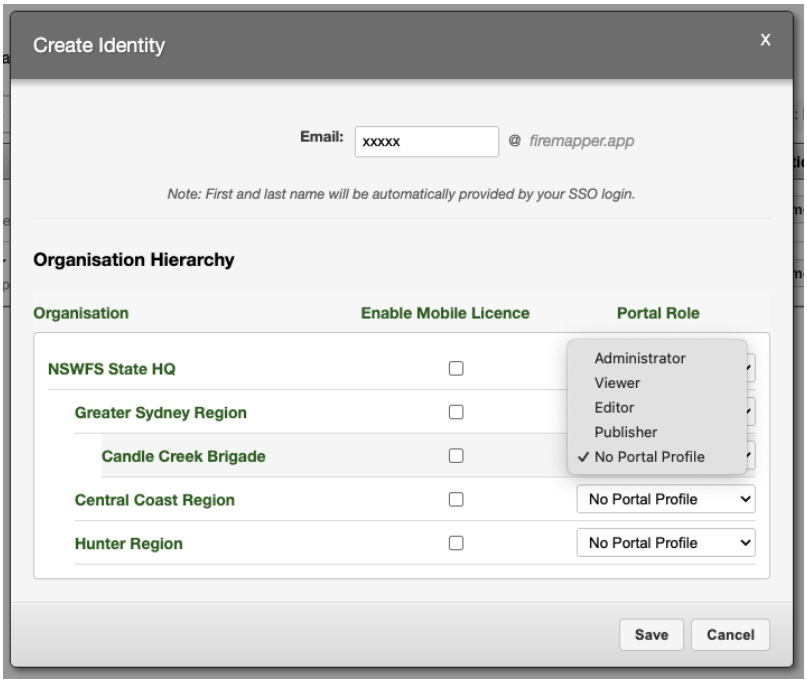
Identity management is available to administrator users of the FireMapper Portal if the capability has been enabled for the organisation.

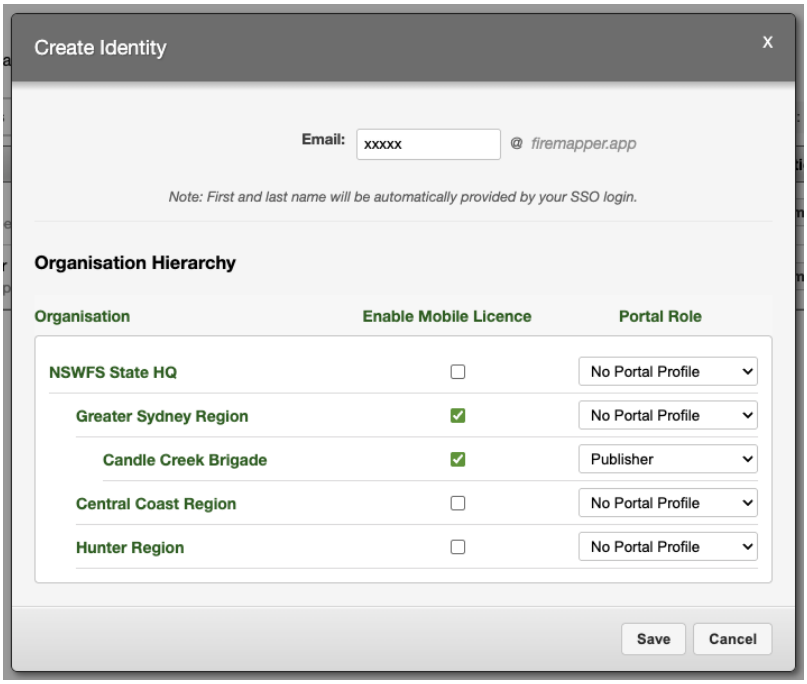
Note: If you would like access to the Identities functionality, please contact Fire Front to enable it for your organisation.

3.9.1 Creating an Identity

1. Click the "Create Identity" button.
2. In the pop-up window, enter the user's SSO email address.
   - The accepted SSO email domain is configured by Fire Front, so please contact us if you need to change it.
   - If the email address already exists, an error message will be displayed.

3. Configure the identity's access permissions using the table. Access is broken up by your profile's hierarchy levels. Multiple hierarchy levels can be configured for the same identity. For each hierarchy level, you can:
   - Tick the checkbox to create a mobile licence to grant the user access to the FireMapper Enterprise app, and/or
   - Select a portal profile type from the dropdown to grant access to the FireMapper Portal. See *Portal Accounts* for more information on the different profile types.

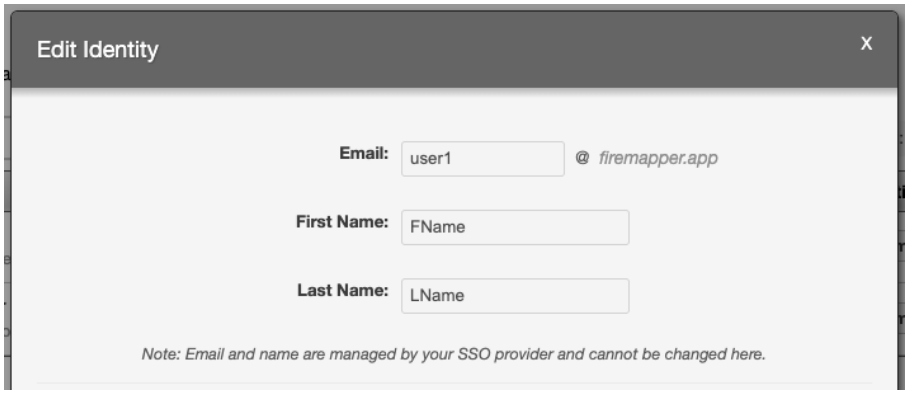




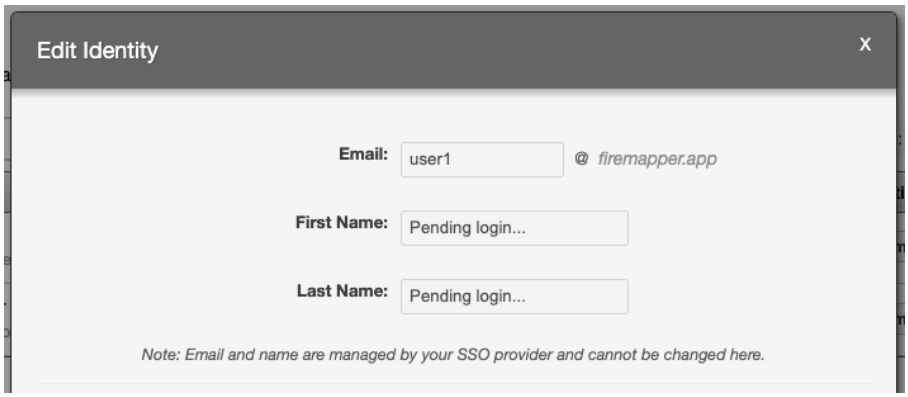
4. Click the "Save" button to confirm the creation.

3.9.2 Viewing & Editing Identities

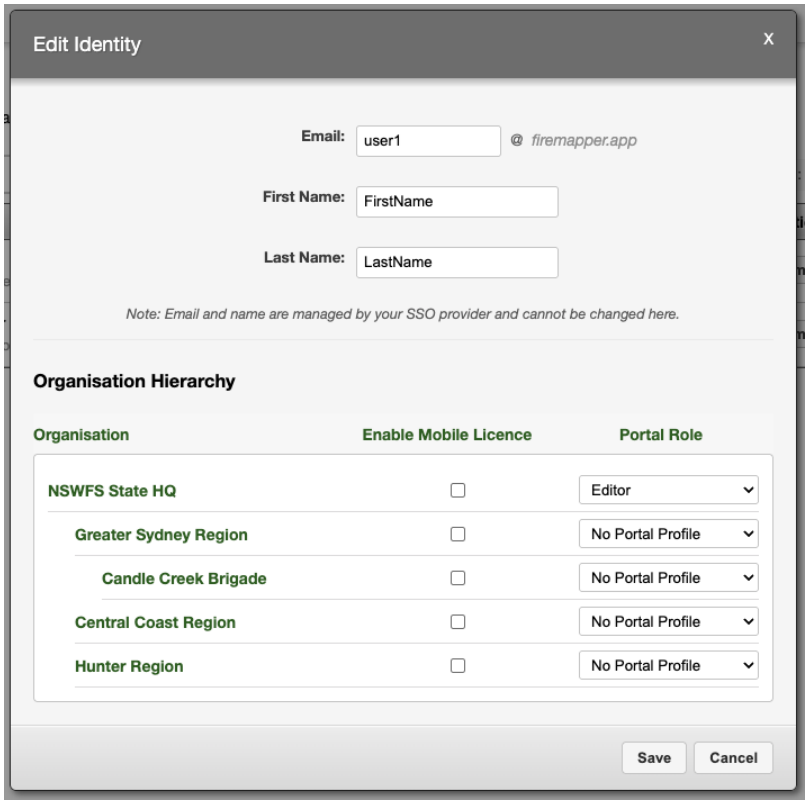
To view and edit existing identities, click on the identity's email address in the identities table. This will open a pop-up window with the identity's details. The identity's personal details will be automatically retrieved from the SSO provider upon their first login.



Before then, the first and last name fields will display as 'Pending login…'.



Access configurations can be edited in the same way as when creating an identity. To remove all access for an identity, simply untick all the checkboxes and select "No Portal Profile" from the dropdown menu.



3.10 Licences

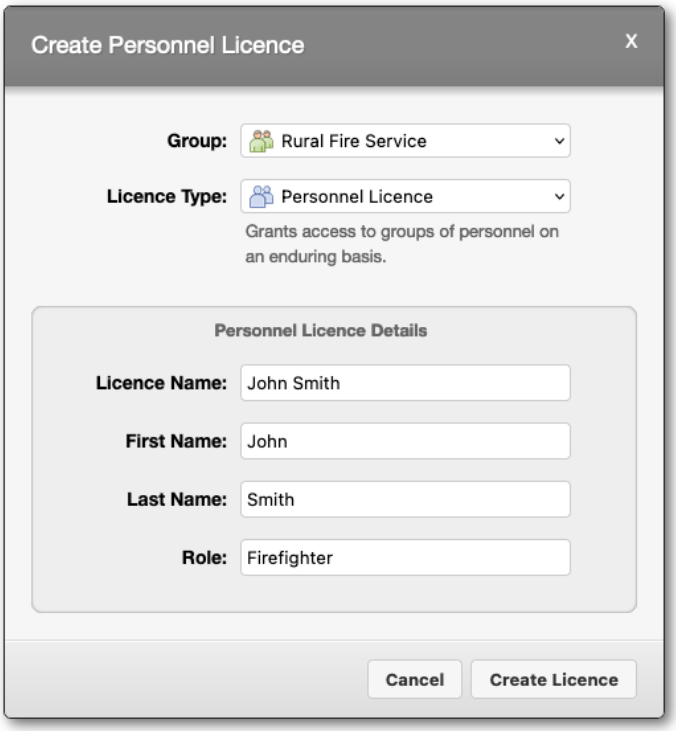
FireMapper Licences are managed through the Portal, allowing you to create and revoke licences within your subscription. Each licence generates a QR-code that is used to activate FireMapper Enterprise on an iOS or Android device.

FireMapper supports four types of licence, however these are enabled in accordance with the features on your subscription type

- **Personnel Licence** - for groups of personnel on an enduring basis
- **Appliance Licence** - for use on devices that are fixed to individual appliances and vehicles
- **Aircraft Licence** - for use on devices that are fixed to individual aircraft
- **Temporary Licence** - for short term access to specific incidents/maps for contractors and 3rd parties.

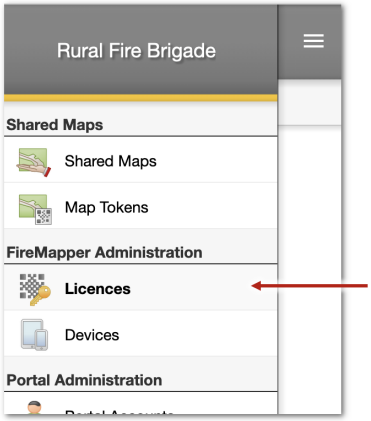
3.10.1 Personnel Licences

Personnel Licences are for granting access to groups of personnel on an enduring basis.

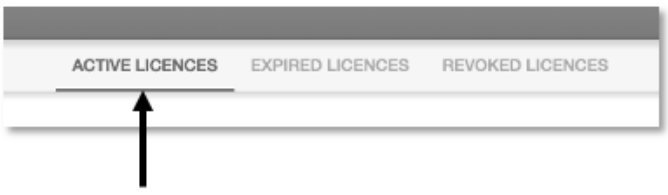


How to create a Personnel Licence:

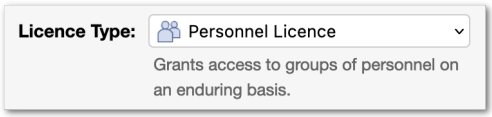
1. Go to the **FireMapper Licences** page using the navigation sidebar



2. Select the **Active Licences** tab at the top of the page



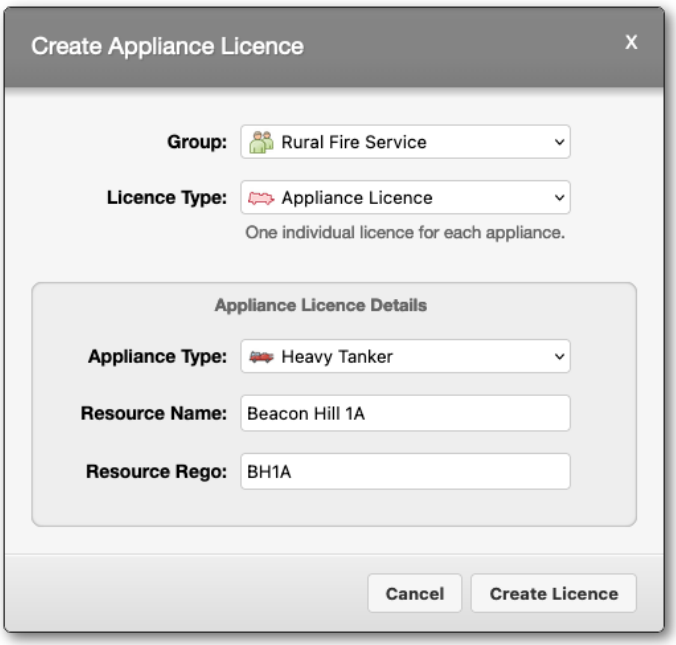
3. Click the **Create Licence** on the right side of the Licence Table to show the *Create Licence Dialog*.
4. Select **Personnel Licence** from the licence type list.



3.10.2 Appliance Licences

An *appliance licence* is designed for devices that are used an individual appliance. They are only intended for devices that are fixed to an appliance such as a mobile data terminal (MDT).

Use a separate *aircraft licence* for each aircraft.



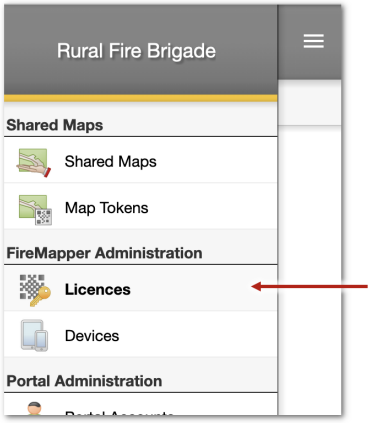
Note: If FireMapper is going to be used on a device that is moved across multiple appliances, use a *Personnel licence* instead. appliance licences are only intended for devices that are fixed to an appliance.

The resource name, resource rego and resource type are assigned when the appliance licence is created and can not be changed within the app.

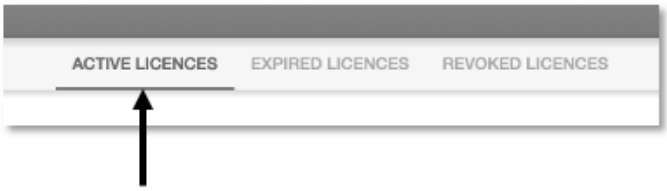
If you use a *Personnel licence*, the resource information is optional and can be changed inside the FireMapper app on the user profile screen if required.

How to create an Appliance Licence:

1. Go to the **FireMapper Licences** page using the navigation sidebar

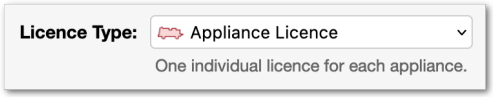


2. Select the **Active Licences** tab at the top of the page



3. Click the **Create Licence** on the right side of the Licence Table to show the *Create Licence Dialog*.

    a. Select **Appliance Licence** from the licence type list.



    If the Appliance licence is not available from the list of licence types, it is not available for your subscription. You will need to contact our Support Team to have this feature enabled.

    b. Select **Appliance Type** from the list of appliance types. This determines the icon that will be displayed on the map for this appliance if location sharing is used.

3.10.3 Aircraft Licences

An *aircraft licence* is designed for devices that are used a single aircraft. They are only intended for devices that are fixed to an aircraft. Use a separate *aircraft licence* for each aircraft.

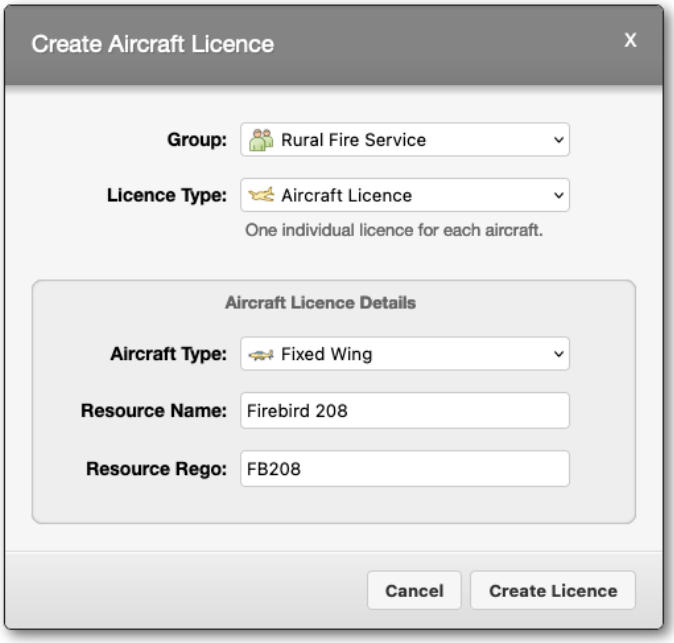
The following fields are required for *aircraft licences*

- **Aircraft Type** (Resource Type)
- **Aircraft Callsign** (Resource Name)
- **Aircraft Registration** (Resource Rego)

Note: If the FireMapper is going to be used on a device that is moved across multiple aircraft, use a *Personnel licence* instead. Aircraft licences are only intended for devices that are fixed to an appliance.

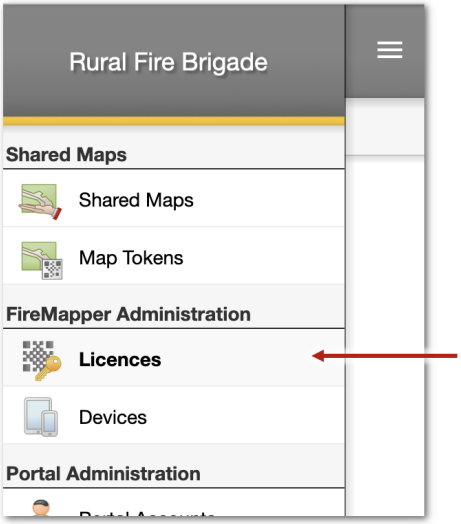
The resource name, resource rego and resource type are assigned when the aircraft licence is created and can not be changed within the app.

If you use a *Personnel licence*, the resource information is optional and can be changed inside the FireMapper app on the user profile screen if required.

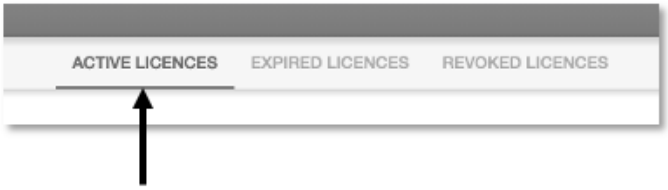


How to create an Aircraft Licence:

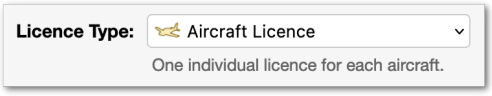
1. Go to the **FireMapper Licences** page using the navigation sidebar



2. Select the **Active Licences** tab at the top of the page



3. Click the **Create Licence** on the right side of the Licence Table to show the **Create Licence Dialog**.
    a. Select **Aircraft Licence** from the licence type list.



    If the Aircraft licence type is not available from the list of licence types, it is not available for your current subscription. You will need to contact our Support Team to have this feature enabled.

    b. Select **Aircraft Type** from the list of aircraft types. This determines the icon that will be displayed on the map for this aircraft if location sharing is used.

    c. Enter the callsign for the aircraft in the **Resource Name** field. This will be used if location sharing is used and in any observations shared using the licence.

    d. Enter the aircraft registration in the **Resource Rego** field. This will be used if location sharing and in any observations shared using the licence.

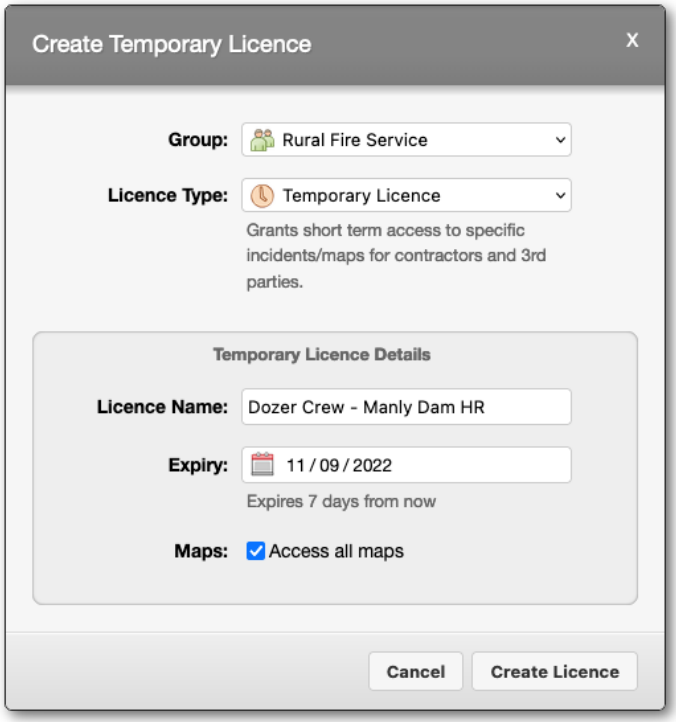
4. Click **Create Licence** to create the FireMapper licence and generate a QR code

5. Share the QR-code by emailing, messaging or printing the QR-code, or sharing the licence code so users can activate FireMapper Enterprise on their devices.

3.10.4 Temporary Licences

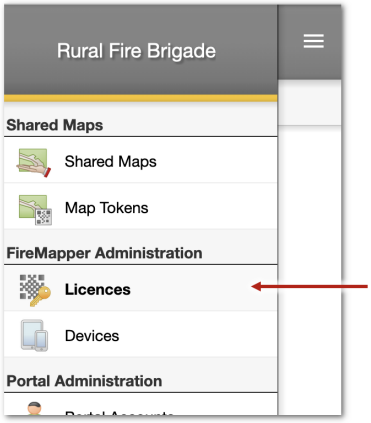
Temporary Licences can be customised depending on the requirements of each situation, including:

- Automatic expiration on a specific date
- Restricting access to a specific set of maps, or allowing access to all maps.

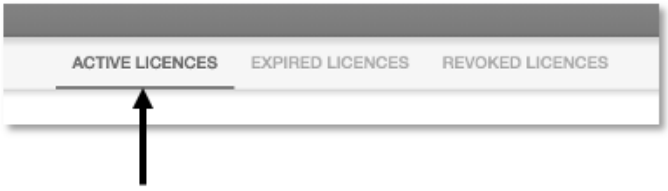


How to create a Temporary Licence:

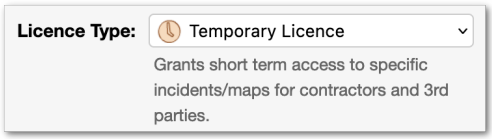
1. Go to the **FireMapper Licences** page using the navigation sidebar



2. Select the **Active Licences** tab at the top of the page



3. Click the **Create Licence** on the right side of the Licence Table.
4. Select **Temporary Licence** from the licence type list.



   If the Temporary licence is not available from the list of licence types, it is not available for your subscription. You will need to contact our Support Team to have this feature enabled.

5. Share the QR-code by emailing, messaging or printing the QR-code, or sharing the licence code.

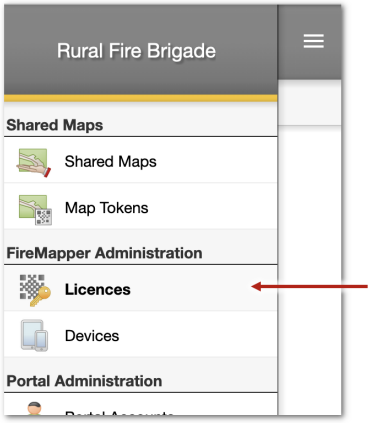
3.10.5 Revoking Licences

You can revoke licences at any time, which will remove FireMapper access from any devices associated with that licence.

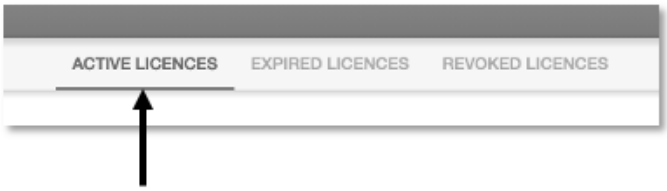
A revoked licence can be enabled again if required, and all revoked and expired licences are visible in the **Expired Licences** and **Revoked Licences** tabs of the **Licences** page.

How to revoke a FireMapper licence:

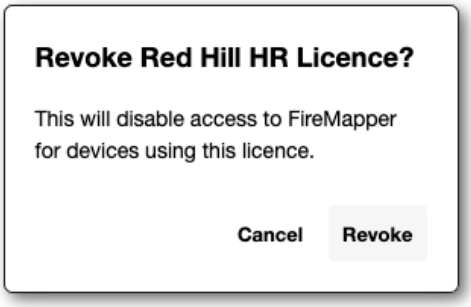
1. Go to the **FireMapper Licences** page using the navigation sidebar.



2. Select the **Active Licences** tab at the top of the page.



3. Find the licence that you want to revoke and click the **Revoke** button on the righthand side of the table
4. A confirmation dialog will appear. Press **Revoke** once you have confirmed that you are revoking the correct licence.



5. Any users that are currently using the revoked FireMapper Licence, will have their access revoked.
6. It is possible to restore a revoked licence from **Revoked Licences** tab on the **Licences** page. This is useful if you need to enable a licence that was revoked by mistake.

3.11 Devices

You can monitor the activity of devices associated with your subscription through the Devices page in the Portal.

The page groups together devices based on the FireMapper Licence used to access your subscription, and is sorted with the most recent activity at the top. The page includes activity associated with licences that have been revoked or expired; while these devices are unable to use FireMapper or access your subscription, their activity indicates they will have the app installed.

3.12 Portal Accounts

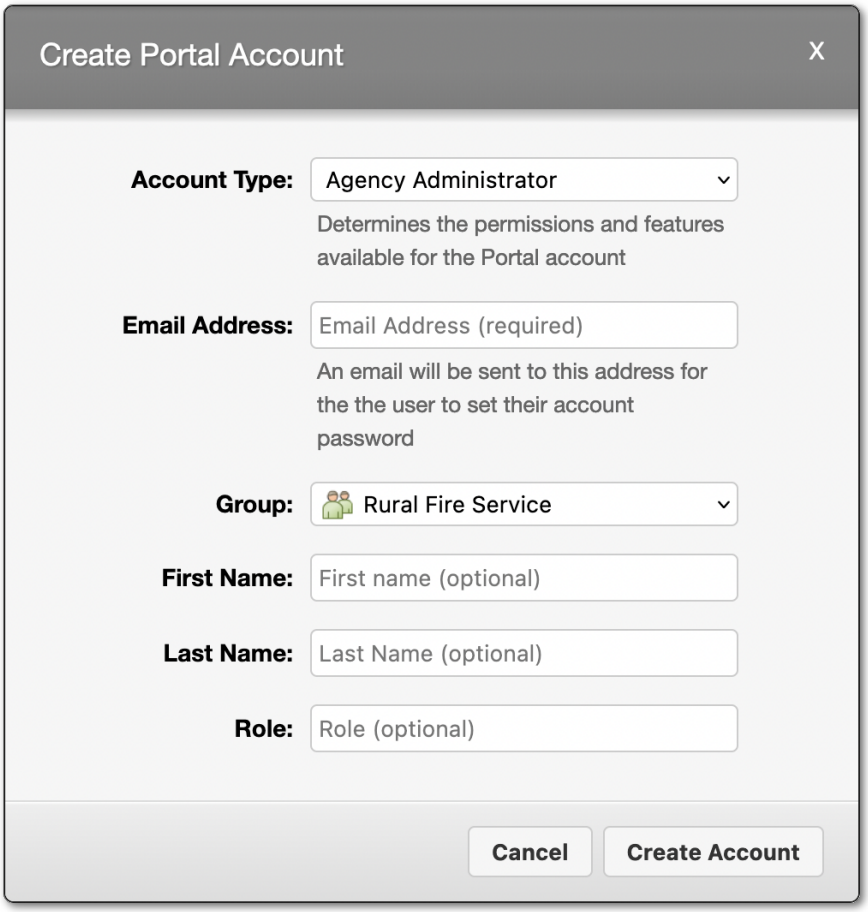
You can provide access to the FireMapper Portal for any of your personnel that need to view and edit maps, or help manage your subscription.

A single Portal User (i.e. a Portal Account) may have multiple Portal Profiles, each within a different Group within the organisational hierarchy, and with their own permissions.

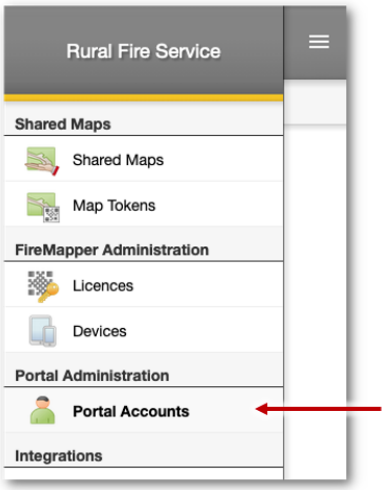
Portal Profiles have their permissions set through the following roles:

- **Viewer Profile** - Read-only access to shared maps.
- **Editor Profile** - Create, view and edit shared maps.
- **Publisher Profile** - Can create, view and edit shared maps, configure Intra-agency sharing and create map Tokens.
- **Administrator Profile** - Full access to the subscription, including creating/revoking Portal Profiles and FireMapper Licences.

3.12.1 Create Portal Account



1. Go to **Portal Accounts** page using the navigation sidebar.

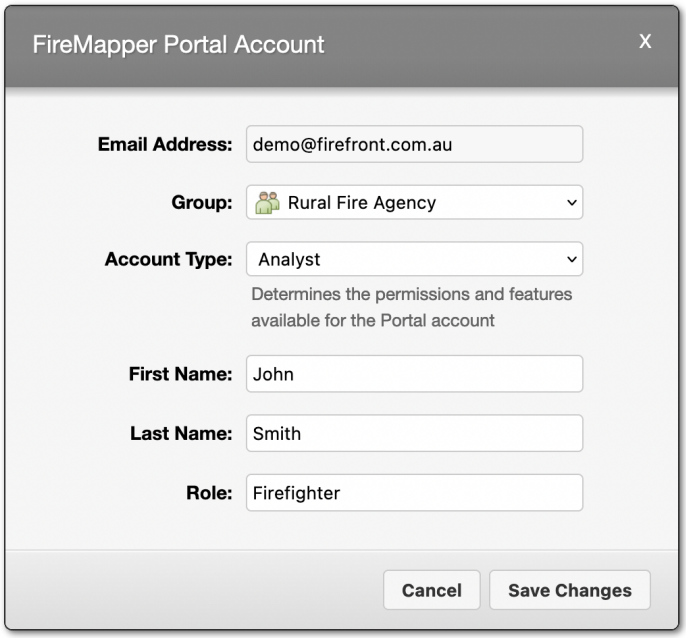


2. Click the **Create Portal Profile** button to show the *Create Portal Profile* dialog.
3. Select an **Profile Type**. This determines the features and permissions that the Profile will have access to in the FireMapper Portal.
4. You can provide additional information about the user such as **First Name**, **Last Name** and **Role**, which is used to tag metadata onto shared map activity such as map edits and creation. These fields are optional.
5. Click **Create Profile**, and the email address will receive a **Welcome to FireMapper Enterprise** email.

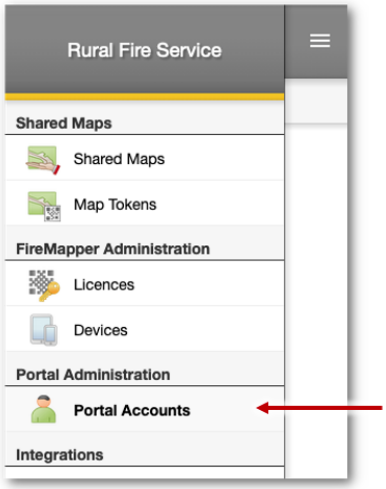
3.12.2 Edit Portal Profile

Note: You can not change the email address for a Portal Account. If you need to change the email address, you will need to create a new Account and then disable the old Account.

Note: You can only edit the first name, last name and role for your own account. You can not change the profile type or group for your own account for security reasons.



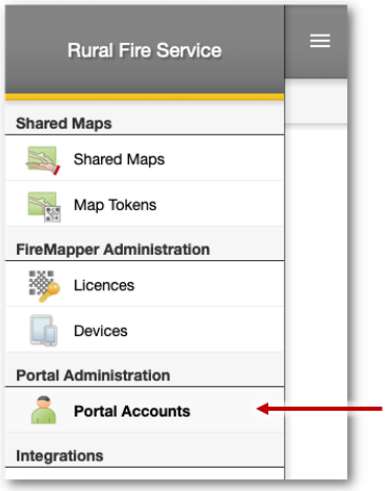
1. Go to **Portal Accounts** page using the navigation sidebar.



2. Select the Portal Profile that you want to edit. You can click on the email address, first name, last name or role fields in the table to open the *Edit Profile* dialog.
3. Once you have made the required changes, click **Save Changes** at the bottom of the dialog to save the changes to the Portal Profile. If a user is currently logged in with the modified Portal Profile, they will need to refresh their current webpage to see the new changes.

3.12.3 Disable Portal Profile

1. Go to **Portal Accounts** page using the navigation sidebar.



2. Click the **Disable** button on the right side of the Portal Profile that you want to disable. You can not disable your own FireMapper Portal Account.
4. Click **Disable Profile** to confirm that you want to disable the selected Portal Profile. Any users currently using that Portal Account will be logged out.

3.13 Integrations: FireMapper API

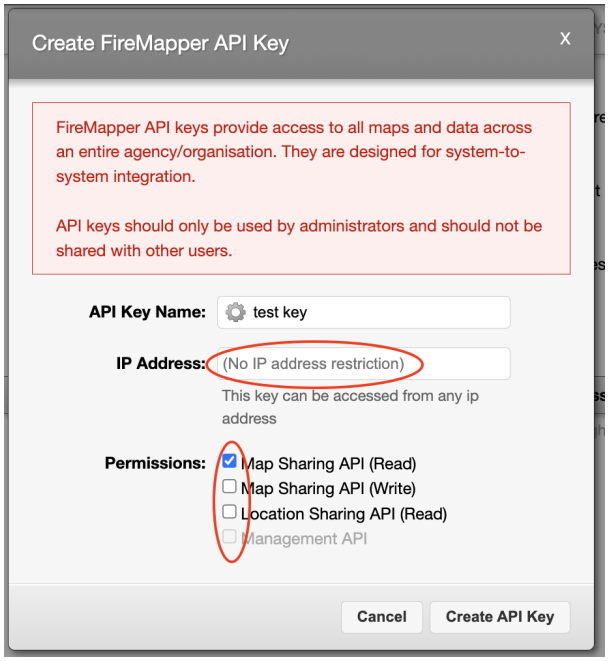
FireMapper API keys provide access to all maps and data across an entire agency. They are designed for provide system-to-system integration with FireMapper. FireMapper API keys should only be used by Administrative/GIS/IT staff and should not be shared outside your organisation.

3.13.1 Setting Permissions

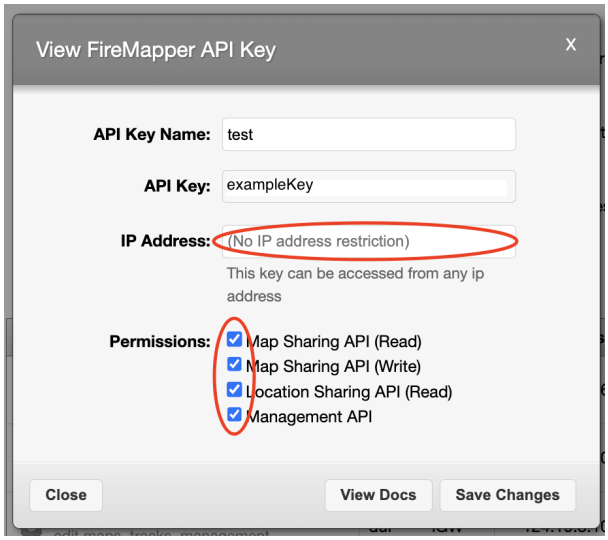
After clicking 'Create API Key', there are five permissions able to be set for the newly created key.

1. **IP Address:**
   Automatically set to your device's current IP address, this restricts the access of the API key to a specified address. This means that connection to the provided address is a requirement for a system to communicate with FireMapper data. This is recommended in the case that the target server has a static IP address, for extra security.
2. **Map Sharing API (Read):**
   Allowing your key to be a Map Sharing API with read permissions grants it access to view all of your agency's maps and features, and all the data associated with it.
3. **Map Sharing API (Write):**
   This allows the connected system to edit (add, delete, update) features within shared maps. Read permissions must be enabled for this to be checked.
4. **Location Sharing API (Read):**
   Location tracks data across all shared maps for appliances, personnel and other instances are made viewable.

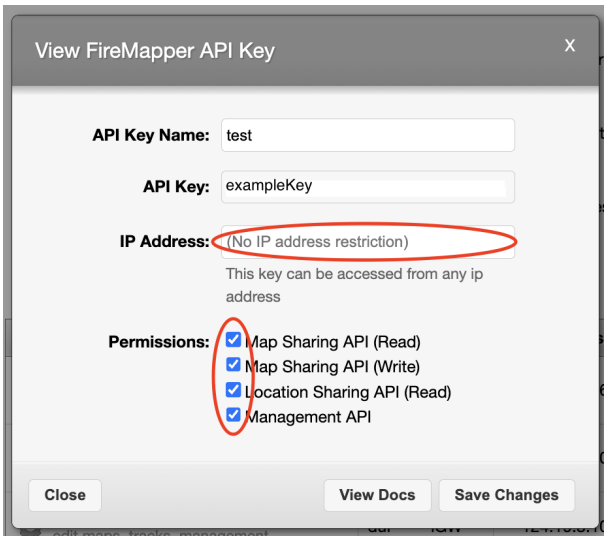
5. **Management API:**
   Gives additional permissions to create, archive or restore archived maps.

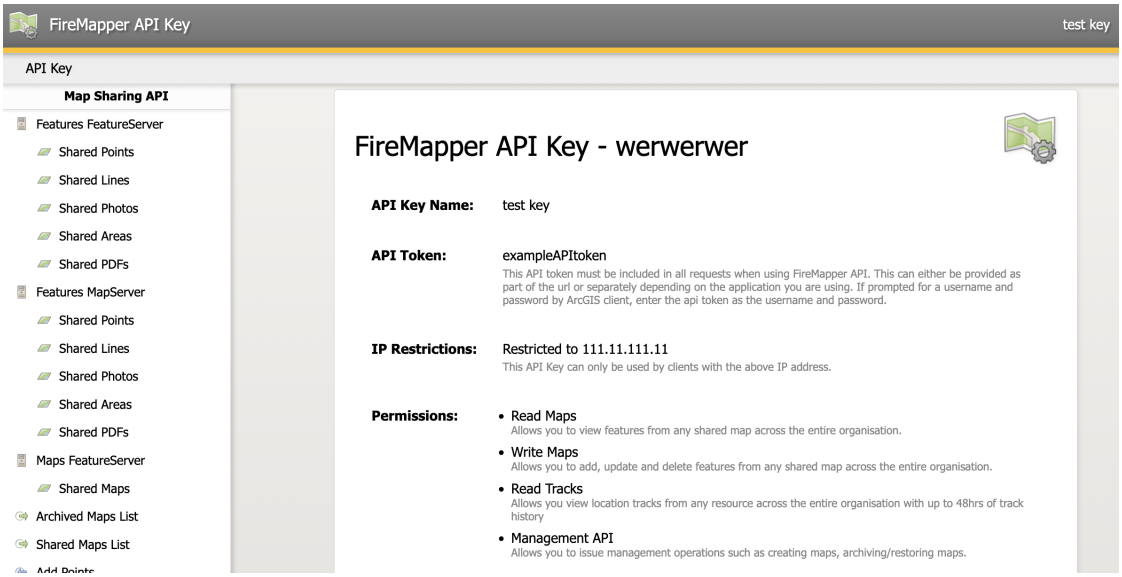


Editing API keys: Permissions for an API key may also be edited after its creation. Clicking on the key's row in the table will open a similar popup in which specific permissions may be toggled on or off, or edited.



Extensive information on each API key's functionalities may be accessed by clicking 'View Docs'.


View FireMapper API Key
X
API Key Name:
test
API Key:
exampleKey
IP Address:
(No IP address restriction)
This key can be accessed from any ip address
Permissions:
Map Sharing API (Read)
Map Sharing API (Write)
Location Sharing API (Read)
Management API
Close
View Docs
Save Changes


FireMapper API Key
test key
API Key
Map Sharing API
Features FeatureServer
Shared Points
Shared Lines
Shared Photos
Shared Areas
Shared PDFs
Features MapServer
Shared Points
Shared Lines
Shared Photos
Shared Areas
Shared PDFs
Maps FeatureServer
Shared Maps
Archived Maps List
Shared Maps List
FireMapper API Key - werwerwer
API Key Name:
test key
API Token:
exampleAPItoken
This API token must be included in all requests when using FireMapper API. This can either be provided as part of the url or separately depending on the application you are using. If prompted for a username and password by ArcGIS client, enter the api token as the username and password.
IP Restrictions:
Restricted to 111.11.111.11
This API Key can only be used by clients with the above IP address.
Permissions:
Read Maps
Allows you to view features from any shared map across the entire organisation.
Write Maps
Allows you to add, update and delete features from any shared map across the entire organisation.
Read Tracks
Allows you view location tracks from any resource across the entire organisation with up to 48hrs of track history
Management API
Allows you to issue management operations such as creating maps, archiving/restoring maps.