



**FIRE
EMERGENCY**

NEW ZEALAND

FIREMAPPER ENTERPRISE USER INTRODUCTION

Fire and emergency Specific Functions

The screenshot displays the FIREMAPPER Enterprise interface. The top left corner shows the FIRE logo and the text "Testing Map FENZ UAT". Below this is a navigation bar with "Activity Features", "Layers", "Export", "Edit", and "Search". The "Layers" panel on the left lists several map styles: Open Street Map, Open Topo Map, LINZ Aerial Imagery, VIIRS Satellite, Aqua Satellite, Terra Satellite, FENZ Base Map, and FENZ Base Map 2024. A brightness slider is located at the bottom of the layers panel. The main map area shows a map of New Zealand with various fire-related icons and labels for cities like Auckland, Wellington, Christchurch, and Dunedin. A scale bar at the bottom right indicates "100 km intervals".



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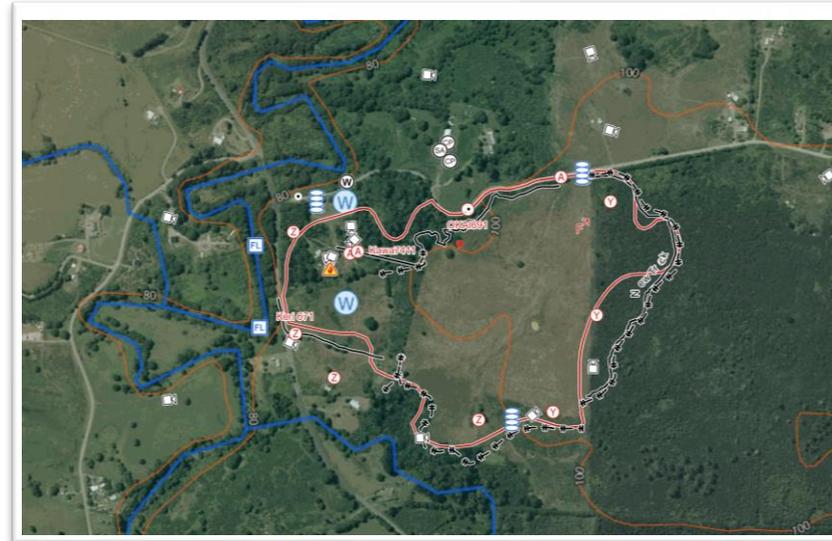
1. ABOUT FIREMAPPER

FireMapper is a spatial mapping tool designed for emergency responders to visualize, analyze, and share incident data in real-time. It enables better coordination and decision-making by providing geospatial information to provide enhanced situational awareness.

- ✓ **Improved Coordination** – Helps Incident Management Teams, firefighters, and partner agencies share situational awareness.
- ✓ **Data-Supported Decision Making** – Offers measurement tools, overlays, and predictive insights to assess fire impact and risks.
- ✓ **Streamlined Operations** – Reduces manual processes by integrating with ICAD and other data sources.
- ✓ **Enhanced Resource Management** – Helps track assets, water sources, and evacuation routes efficiently.

ICAD FireMapper Integration

- ✓ **Near Real-Time Incident Mapping** – Displays live incident locations, allowing quick situational awareness.



Real-Time Incident Mapping

2. Help and Support Structure

FENZ Portal [FireMapper for Enterprise Project | The Portal \(fireandemergency.nz\)](#)

Search FireMapper (Make sure you spell this as one word).

This page contains an overview of FireMapper as well as support documents including:

- FireMapper introductory Guides (printable and presentations)
- Link to comprehensive FireMapper user guide.
<https://docs.firemapper.app/>
- List of District FireMapper Champions who can provide training and first tier support

Further support can come from the Wildfire Specialist team (rorly.renwick@fireandemergency.nz) or support@firemapper.app

FireMapper for Enterprise Project

FireMapper for Enterprise is a mapping tool designed to assist with the management of medium to large vegetation fires. With this tool, key personnel from Incident Management Teams can input and view the same 'live map' while on the fireground. The live map can be shared with other operational personnel and crews, and coordination centres, and where required, other agencies such as Civil Defence, Police, Department of Conservation and the forestry industry. Sharing the live map assists in achieving a common understanding of the current situation and the planned action.

Who to contact
Rory Renwick

Current Projects & Programmes
Aerial Appliance Procurement Project
Cannibal Creek Project

FireMapper Support Hub

Frequently Asked Questions

FireMapper FAQs
Check out frequently asked questions for answers to common questions.
[FAQ Page](#)

Getting Started Guides

Getting Started for Personnel
Need help setting up FireMapper on your iOS/Android device as part of your FireMapper subscription?
This guide will get you running in under 5 minutes.
[Getting Started](#)

Getting Started for Administrators
Need help setting up your FireMapper subscription?
This guide will show you everything you need to know to manage your licences and subscription.
[Getting Started](#)

Manuals

FireMapper Enterprise
FireMapper Enterprise is our real-time mapping and incident management solution. It is available on iOS/Android as a free download with a FireMapper subscription.
[View Manual](#)
[PDF Manual](#)

FireMapper Standard
FireMapper Standard is a standalone version for individual data collection. It is available on iOS/Android as a once-off purchase from the app stores.
[View Manual](#)
[PDF Manual](#)

Download FireMapper Enterprise
Download on the App Store | GET IT ON Google Play

Additional Resources

Contact Us
Contact our Support Team via email
support@firemapper.app

YouTube Channel
Visit our YouTube channel for the latest videos and walkthroughs.
[YouTube Channel](#)

Facebook Page
Follow us on Facebook for the latest updates and notifications.
[Facebook Page](#)

Facebook User Group

3. Access security Guide

Sensitive Information

FireMapper may contain personal or sensitive information, including event locations.

As determined by the Privacy Commission, the location of an event on private property, along with details such as its nature and timing, is considered personal information when the property is owned or tenanted by an individual.

Access Rules

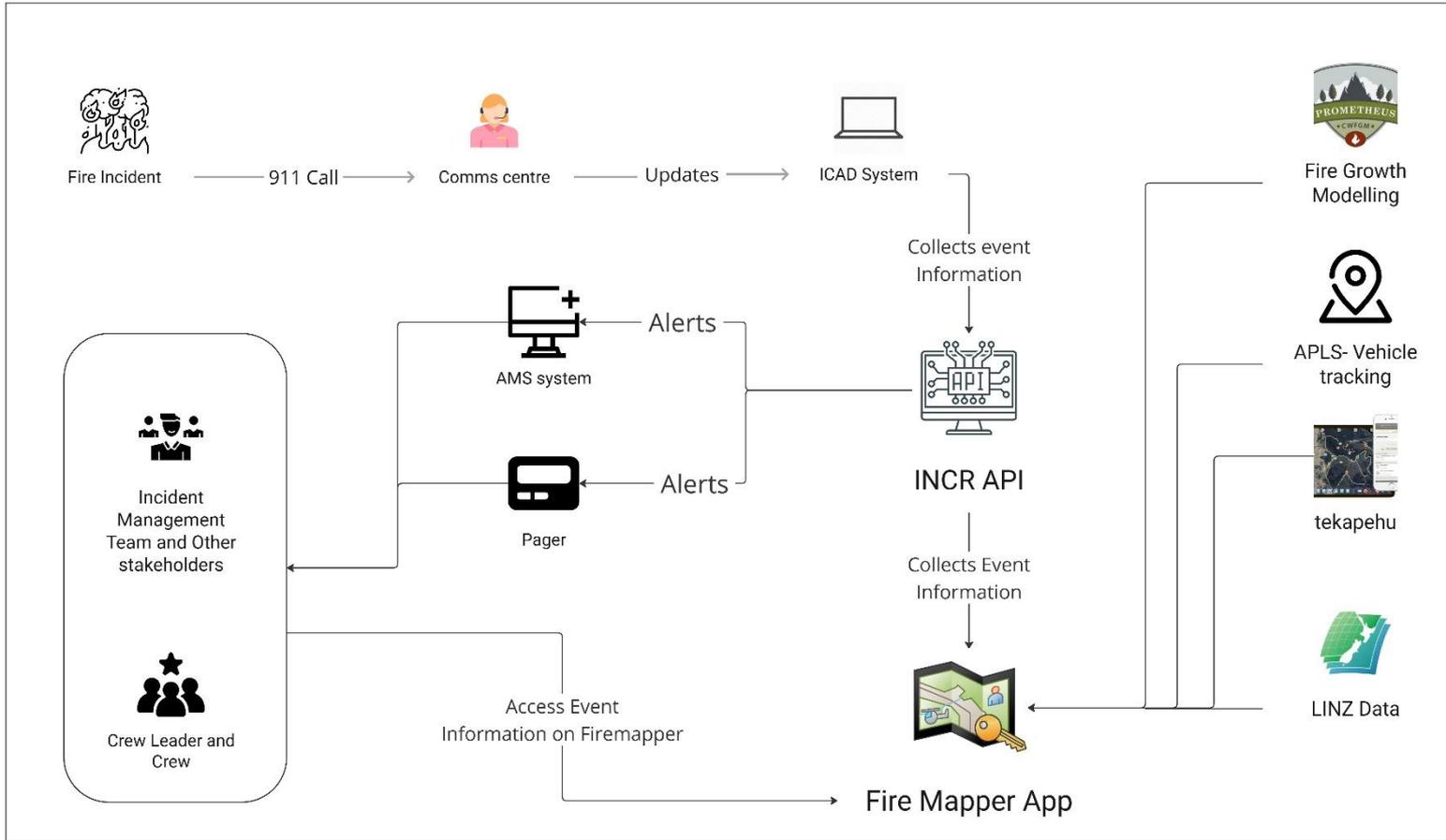
- Access to FireMapper, including QR codes and links, must be restricted to individuals directly involved in managing the response.
- Note : ICAD Incident Information excluded from the token access maps.
- License QR codes and links should only be shared with those who require access to the information. Duration of the token access should be no longer than necessary and token access should be revoked after the incident is resolved.
- No personal or sensitive information should be entered on the map at any time.

Our Data and Analytics directorate has developed guidelines on sharing data with external agencies during emergencies. If map information needs to be shared with external parties, please refer to the relevant security guidelines.

[Data sharing with external parties in emergencies](#) | [The Portal \(fireandemergency.nz\)](#)



4. Fire Mapper technology Landscape



5. What access is available to who?

- 18 Administrators (can issue access). One person per district as listed on the portal page.
- 190 Licences for Senior Officers and a selection of others who work at a similar level such as external Air Attack Supervisors
- 25 Temporary Shared Licences – can be issued to somebody for up to 14 days.
- Portal Access - Coordination Centres, Command Units, and GIS operators
- Tokens for temporary portal access can be issued as required.

Supported Devices

- Android 9 or newer (Generally devices 4 years old or newer)
- iOS 12 or higher. But not “WIFI only iPads”
- Must have correct time on device
- Up to date app version.



6. Getting started in the FireMapper App

1.1 Download the app from the app store.

[FireMapper Enterprise – Apps on Google Play](#)

[FireMapper Enterprise on the App Store \(apple.com\)](#)

1.2 Add account.

A District FireMapper Champion will provide either a temporary or personal licence either as a QR code or as a link. You can either click on the link and it should take you to a page that has an option to “apply licence” or it will go straight into the app. Or you use the “Scan QR button” within the app as shown in image 1.

1.3 Setup user profile.

Select the sidebar (Image2) then “My Profile” (Image 3)

- Add your name and relevant details
- Tick “auto sharing” so others can see feature you add
- Tick “location sharing” so others see your location while you are using the app

1.4 Check device settings (not in the app).

- Allow FireMapper access to location
- Ensure device is named e.g. “Hone’s iphone”

Go to <https://docs.firemapper.app/> for detailed instructions

Image 1

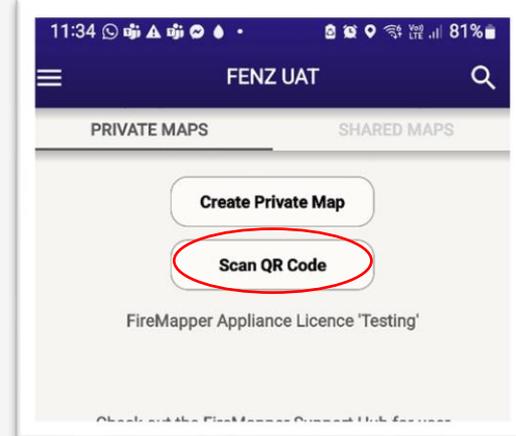


Image 2

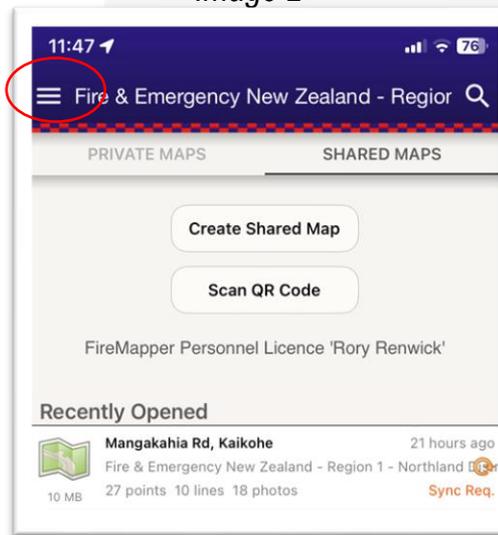
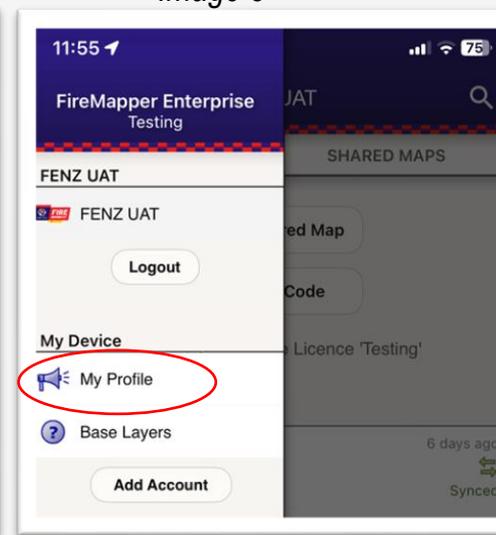


Image 3



7. Map Creation on Fire mapper-

This Feature is not available for temporary token access users

Create a New Map

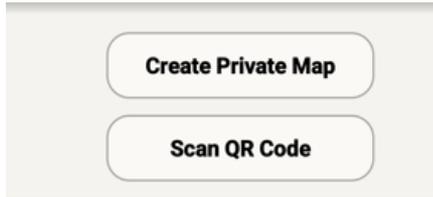
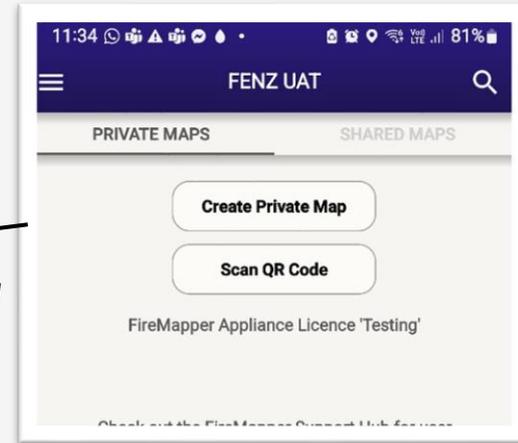


Image 1



User can create a New Map by clicking on “Create a Private Map”, See Image 1

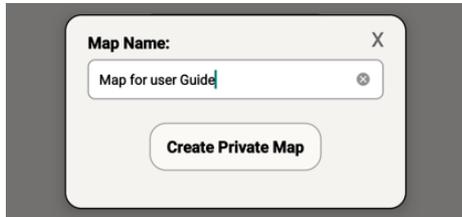
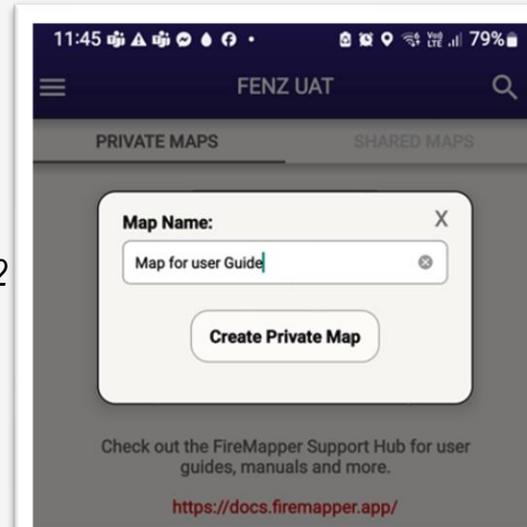


Image 2



Type a Name for the Map and Click on “Create Private Map- Image 2

Access an Existing Map using QR Code

User Can Access a Shared Map by Clicking on the “Scan QR Code” button. System will display a QR code, use your smart devices to scan the QR code.

Go to <https://docs.firemapper.app/> for detailed instructions

7. Map Creation on Fire mapper

Access shared Maps Area

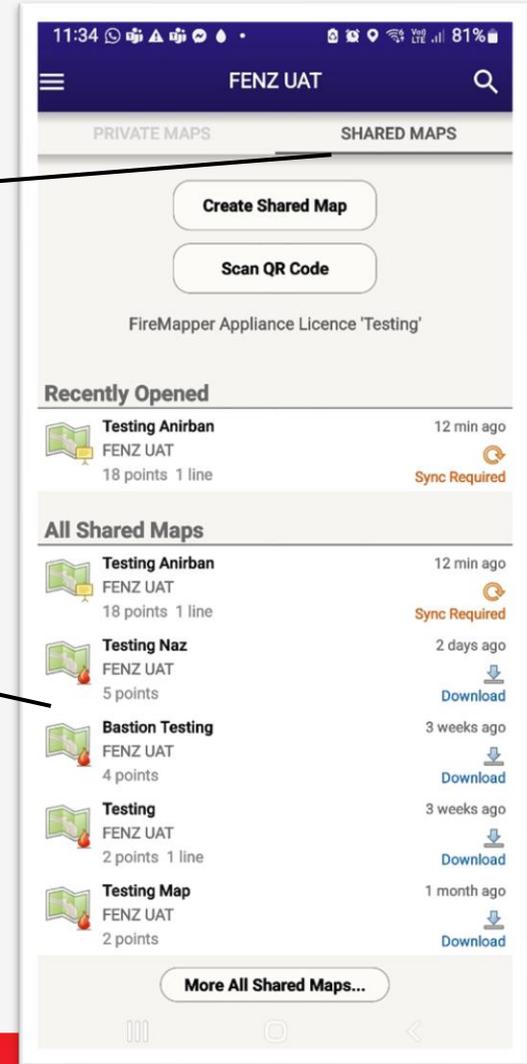


User can Access the list of shared maps area by clicking on “Shared Maps”

Click on the Map to open the specific Map



User can Click on the map to access the maps area by clicking on the specific map or download the map by clicking on “download”.



8. Intra agency sharing

To make it easier for users to focus on the maps relevant to them

FireMapper is segregated to reflect the FENZ organisational structure and all maps must be assigned to a District, Region or NHQ.

When a license (for mobile app use) or a portal account (for browser use) is issued it must also be assigned to a District, Region or NHQ.

When creating an incident map it will default to the same part of the organisation as the license that is being used. AND by default it will only be visible to those using licenses assigned to that part of the organization.

The FireMapper Portal is similar however as there is more screen space the portal allows users to see subordinate parts of the organisation, so you will see more maps when you log on to the portal than when you use the mobile app.

If required for major events, any of the District FireMapper Champions can change defaults and make a map visible to other parts of the organisation by going to the map properties and selecting **Intra-Agency Sharing**.

Go to <https://docs.firemapper.app/> for detailed instructions

District Champion view from within FireMapper Portal

Shared Map Name	Last Activity	Shares	Actions
▶ FENZ Headquarters			Create Map
▶ Fire & Emergency New Zealand - Region 1			Create Map
▼ Fire & Emergency New Zealand - Region 1 - Auckland District			Create Map
 Maunsell Rd, Port Waikato 27 points 1 line 5 labels	16 hours ago	1 shares	  
 Hunua 1 point 1 line	6 days ago	-	  
 Kawau Island 105 points 74 lines 5 photos	6 weeks ago	-	  
▶ Fire & Emergency New Zealand - Region 1 - Northland District			Create Map
▶ Fire & Emergency New Zealand - Region 2			Create Map
▶ Fire & Emergency New Zealand - Region 2 - Bay of Plenty District			Create Map

Intra-Agency Sharing

Intra-agency sharing allows you to share your maps with other FireMappers users within your agency.

Intra-Agency Sharing

9. Events on Fire mapper

Current events are displayed in FireMapper - other than MVA and Medical which are sensitive

Use search function

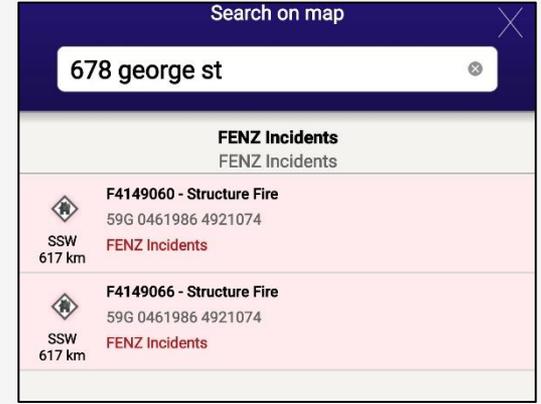
Users can utilize the application search function to search for events using the Incident number and incident address – See below



Click on the search Function



Search Using Incident Number



Search Using Incident Address

Note: When searching, the app will only search the current extent of the map so ensure you are covering the relevant area(s).

If searching by address and multiple events exist at the same location, FireMapper will always display the latest incident.

Example: If a wildfire event is closed and in its stale stage, and a new wildfire event is initiated at the same location, FireMapper will only show the new live event when searching by address. To access the old closed event, try searching using the Incident Number instead.

9. Events on Fire mapper

Access near Realtime Event Information



If a live event is logged in CAD, FireMapper will display the event icon as shown above. If the icon outline is purple, the event is live, and appliances have been dispatched similar to Te Kāpehu– As above



If the icon outline has a yellow border, the event is marked as 'Advised,' similar to Te Kāpehu – No Appliance Dispatched – As Above



9. Events on Fire mapper

User can click on the pop-up section to get see detailed information on the events – See page 19(detailed event info)

Users will be able to view most events including Notified events but except for Medical and MVA.

Pop up displays :

- NZTM Coordinates
- First unit dispatched time
- Created time
- Last updated time
- Address of the incident location

User can click following action

- Email the event information
- Send Text Messages with the event location
- Use a navigation Application to navigate to the Location
- Download the event feature



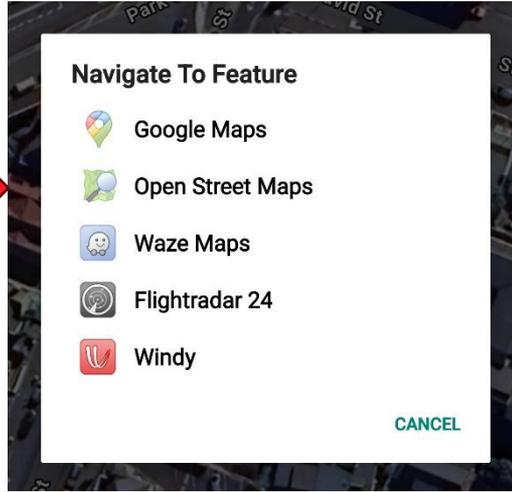
9. Events on Fire mapper

Use a Navigation Service to navigate to the incident Location

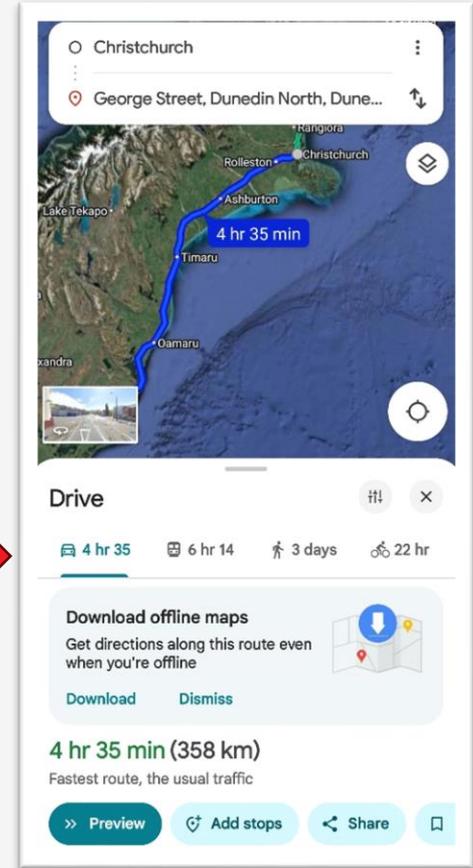
Users can click on the navigation icon (shown below) to access various navigation applications, providing directions to the event location.



Click on the Icon



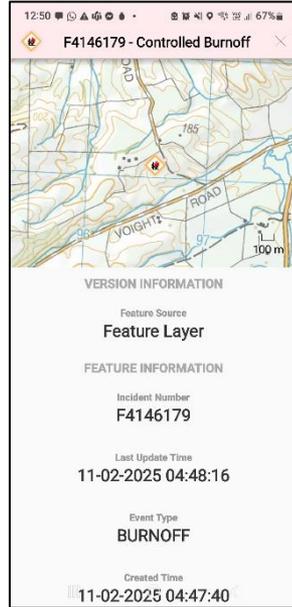
Choose the Navigation Application



Example : Event Location is set on Google Maps

9. Events on Fire mapper

User can click on the pop-up section to get see detailed information on the events- refer next page



Incident Number

Type of the events

Last Update time of the event

Event creation time

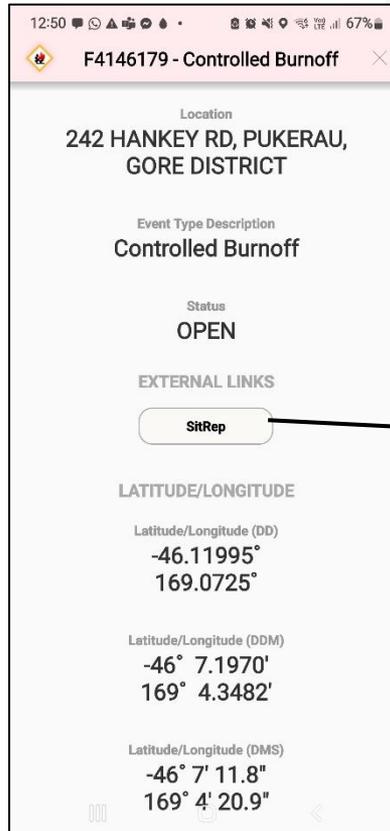


9. Events on Fire mapper

Latitude/
longitude

NZTM
Coordinates

UTM
Coordinates



Incident
Location

Event Type

Event Status

Latitude/
longitude

By clicking this button will take user to the specific event on "sitrep.fireandemergency.nz" SitRep Application and further see detailed :

- Incident Details and History
- Incident Responses – Call signs
- Cover movers
- Notifications and messages

Note : When an event is updated in CAD, FireMapper will automatically update the event in real time, including event type, description, incident status, location, and coordinates, with the event icon repositioned if coordinates change.

10. Event Closures on Fire mapper

Event Closure in Fire mapper

The event icon will disappear from FireMapper once the event is closed, except for vegetation and structure fires, which will remain visible.

Event Closure for structure and wildfire events

For vegetation and structure fire events, the event icon will remain visible as a stale event for 48 hours after closure.

Additionally, the closed timestamp will be displayed.

Note : The live event(latest) will take priority in visibility if there is a live and stale event on a same location.

Incident Number
F4146216

Last Update Time
11-02-2025 08:36:56

Event Type
VEG

Created Time
11-02-2025 07:13:40

Closed Time
11-02-2025 08:45:13

Location
MAMAKU RD, BRIXTON, NEW PLYMOUTH DISTRICT

Event Type Description
Vegetation Fire

Status
CLOSED



11. Static Data Shared to FireMapper

Static Data from FENZ GIS

This is data collated by the FENZ GIS team. They are not selectable features on the map as they are added to the “FENZ Basemap layer”. But some detail will display as you zoom closer. This data will be updated in FireMapper yearly. Where possible symbology is aligned with other systems especially Te Kāpehu.

Archaeological/historic sites

Labels will indicate the site type. Try to avoid damage to these especially with heavy machinery – See Image 3.

Hydrants

Hydrants will be displayed in the same manner as the existing Te Kāpehu. See image 4.

Image 3

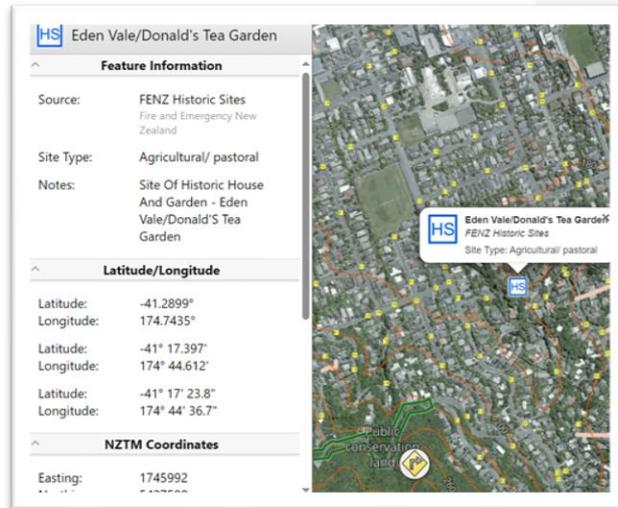


Image 4

11. Static Data Shared to FireMapper

Static Data from FENZ GIS – Only Available on FENZ base map

Major Hazard Facilities

Major hazard facilities will be displayed using the same approach as the Smart Map, with metadata showing the specific property use. See image 5.

Defence Estate Boundaries

Defence estate boundaries will be labeled as "Defence Lands Estate" – See Image 6.

Image 5



Image 6



11. Static Data Shared to FireMapper

Forestry and Stakeholder Boundaries

Forestry boundaries are displayed on the map with labels visible When zoomed in. See Image 7.

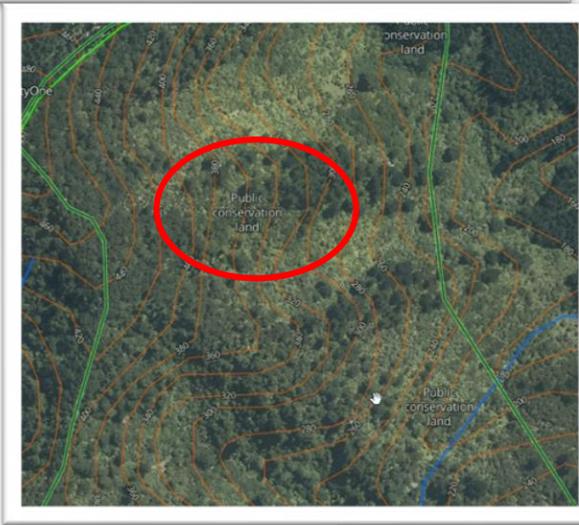
Image 7



DOC PCL

The Department of Conservation (DOC) estate boundaries will be labeled as "Public conservation land " and displayed without fill to ensure visibility of underlying imagery. See Image 8

Image 8



12. Stakeholder Data Shared via AGOL

Locked Gates

Locked gates is displayed using symbology similar to road closures. See Image 9.

Sealed or Major Arterial Roads

Sealed or major roads is represented similarly to standard street maps, including road names for easy identification. See Image 10.

Image 9



Image 10



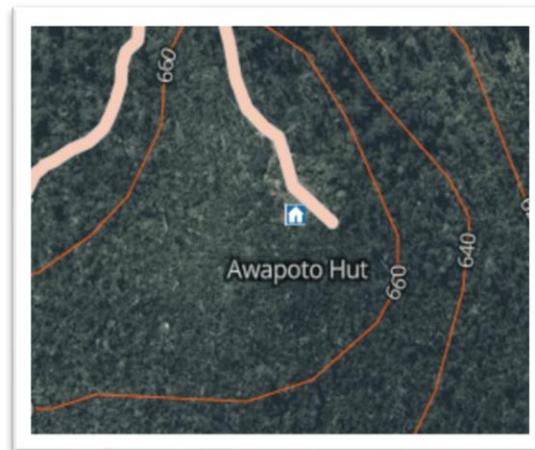
12. Stakeholder Data Shared via AGOL

Walking tracks and huts.

Walking tracks and huts are displayed using symbology as shown in the figure – See Image 11. These areas may need to be evacuated.

Mountain bikes

Mountain bikes tracks are displayed using symbology as shown in the figure – See Image 12



Walking tracks 11



Mountain bikes 12

12. Stakeholder Data Shared via AGOL

Water Supplies for Emergency Appliances

Possible water sources are displayed. However this data is indicative and comes from various sources and reliability can not be guaranteed. See image 13.

Image 13



13. Integration Direct from Third Party to FireMapper

Static Data from FENZ GIS – Only Available on FENZ base map

8.0 Fire Weather Stations

Fire weather stations display the latest observed wind speed, wind direction, temperature, relative humidity, and precipitation. Data updates occur hourly with about a 30 min delay.



Image 17



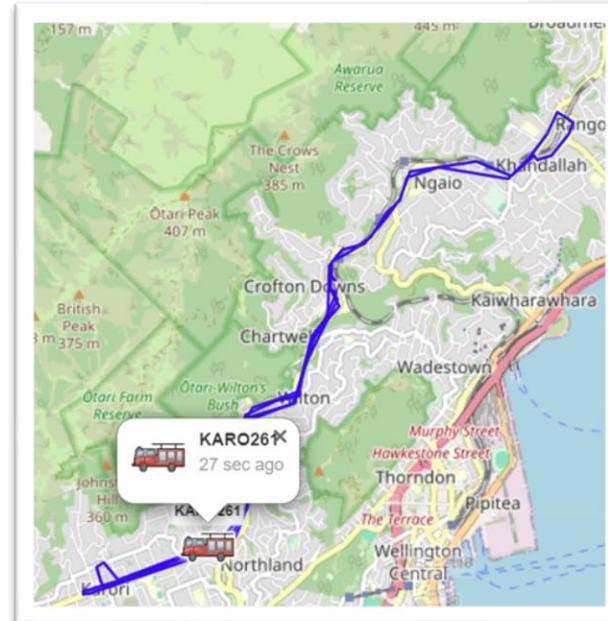
14. ALPS Integration in FireMapper

Alps Information – Appliance live location.
Available on all the maps(Base map). – Live Feed

To enhance situational awareness ALPS integration in FireMapper provides real-time Data refreshes in real-time as frequently as transmitted by the vehicle, ensuring the latest vehicle locations are visible.

Note: not all vehicles are installed with ALPS

Vehicle Call sign and track history is available by clicking on the appliance.



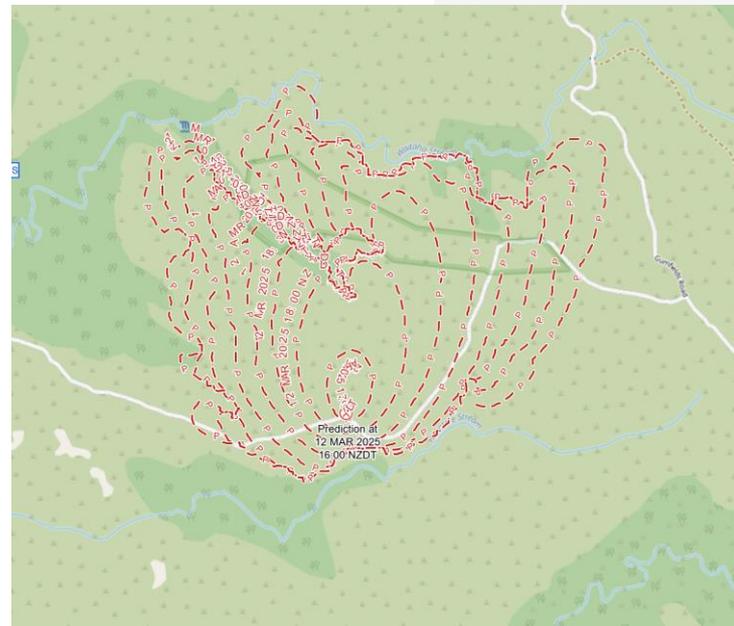
15. FireMapper & WISE Integration

FireMapper is connected to WISE, providing a wildfire fire growth modeling capability. This can provide a prediction almost instantly however it uses default inputs that have not been validated and can not be adjusted by the users.

Considerations:

- **Predictions Require Expert Validation – Predictions must be validated by personnel understanding the inputs and trained in fire behavior prediction (at least FB2 or equivalent).**
- Based on the following inputs:
 - Forecast and observed data from the fire weather system.
 - Fuels from the Landcover database.
 - Digital elevations maps
- Excludes Critical Factors – The model does not account for crown fires, suppression actions, or long-range spotting.
- Prediction does consider features from the incident map i.e. completed control lines and area burnt.

This tool enhances situational awareness but should always be used alongside expert analysis and real-time field intelligence.



16. Tasks to practise – FireMapper Mobile Application User

Practise tasks to be completed in the app in an open area .

- Change between base map layers.
- Add points and a photo somewhere near you.
- Add points using the GPS.
- Hand draw a line feature.
- Using the GPS and walking record a “inactive fire edge” (>30m) while adding “hot spot” points using the GPS.
- Select and navigate to a point feature using the compass within FireMapper 
- Add an area polygon feature such as “Area Burnt”
- Select then delete a point feature.
- Go to  and reinstate a deleted point feature from the mobile app.
- Select a line then select the circle at the end and extend a line feature.
- Select and shorten a line by grabbing circle at the end and dragging it back on itself.
- Change the middle section of a line feature by dragging your finger across the line at two points.
- Search “weather” to look up the latest hourly observation from the nearest fire weather station.
- Add a hazard feature and include some notes about the hazard.

Go to <https://docs.firemapper.app/> for detailed instructions if you get stuck

16. Tasks to practice - FireMapper Portal user

Practise steps users of the FireMapper Portal through the Browser.

If you have a portal account > Log on to <https://portal.firefront.com.au/> > Open R1 Test and train map.

If you do not have a portal account – use token

Make sure you can:

- Change layers.
- Select a feature and see who added it.
- Draw a line or area and estimate the size of fire or city block.
- Go to Edit and add feature.
- Select a line feature and edit it (similar to mobile app)
- Filter out features.
- Print a map for a press release or report (under export).
- Select an individual feature such as fire break and download
- Select and extend a line feature.
- Select and shorten a line.
- Change the middle section of a line feature.
- Open mobile map – this should look similar to the mobile app.



an individual feature to send to a Land Manager.

Go to <https://docs.firemapper.app/> for detailed instructions if you get stuck