



TAK Tracker

Application Version 4.6.1

26 July 2023



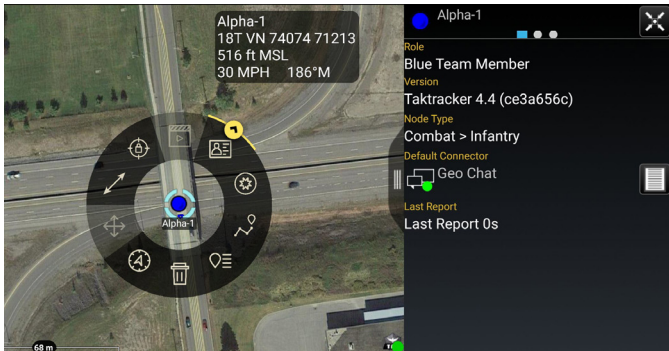
TAK Tracker

Overview	3
Android Permissions	3
Server Enrollment	4
User Details	4
Emergency Alert Beacon	5
Chat	5
Options and Settings	6

Overview

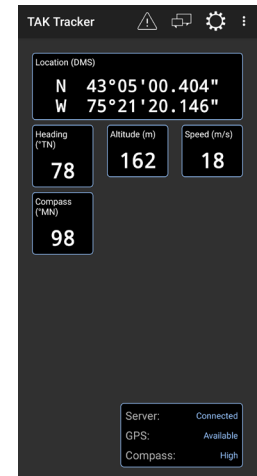


TAK Tracker is a standalone application designed to keep track of users in a TAK environment who do not have ATAK installed. ATAK/WinTAK users enrolled on the same server will see the TAK Tracker user markers on their map interfaces. Selecting a user marker will show that device's speed, heading, altitude and location data.

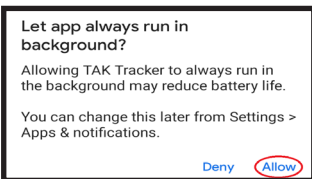


Other TAK Tracker features allow:

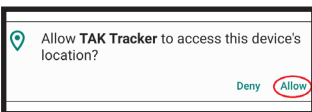
1. ATAK/WinTAK users and TAK Tracker users enrolled on the same server to chat with each other.
2. TAK Tracker users to set off an Emergency Alert Beacon that will display at their location on all other TAK users' maps.



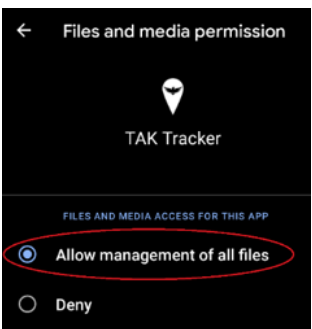
Android Permissions



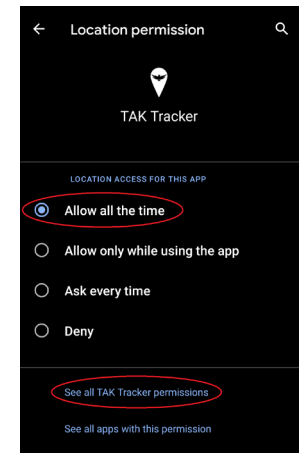
TAK Tracker requires that several permissions be enabled for the application to function. These permissions must be enabled during the initial launch of TAK Tracker or from within the Android settings for the application.



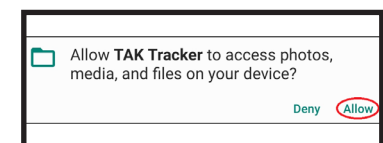
During initial setup, the user will be asked to allow access to location information and enable the application to run in the background.



If given the option to choose how location access is permitted, choose to Always Allow Access, when possible. This ensures that TAK Tracker is able to send location information while it is currently open or running in the background.



The first time a file download is attempted, such as an SSL certificate .zip file, a prompt will appear to allow file access to TAK Tracker. Selecting [**Allow**] opens the device file manager, giving access to choose a file from the folders.



Server Enrollment

Enrollment:

Server: _____

Port (def: 8446): 8446

Username: _____

Password: _____

ADVANCED ENROLL

After the necessary permissions are allowed, the TAK Tracker Enrollment window will open.

The Server field is the URL that all TAK users in the mission must be logged into. The users must be in the same client enroll group to “see” each other. Entering an enrollment port is only necessary if the port used is not the standard port for the TAK Server. Username in this window does not have to be the same as the user callsign that is displayed after enrollment. The callsign can be changed in Advanced Settings. After filling in the appropriate fields, select **[ENROLL]**. If the enrollment is successful, a notification message will display and the main TAK Tracker window will populate with the expected data.

Note: Selecting **[ADVANCED]** on this screen will bring additional enrollment options and settings and will bypass this screen. Details are in the Settings section of this guide.

User Details

Once enrolled into a server, the TAK Tracker window will show multiple types of data. The main TAK Tracker window can be displayed in either portrait or landscape orientation.

Server: Connected

GPS: Available

Compass: High

The connection box shows:

- **Status of server Connection** – This will show an error if the enrollment process was unsuccessful.
- **GPS** – Without location services enabled this will show that GPS is not available. Go to the Android pull-down drawer to enable location services.
- **Compass** – Ideally this will show that the compass is in a highly reliable state. One example of why this field may display “Moderate” or “Unreliable” is magnetic interference.

TAK Tracker

Location (DMS)
N 43°04'43.711"
W 75°18'07.714"

Altitude (m) 100
Speed (m/s) 22

Compass (°MN) 17
Heading (°TN) 68

Server: Connected
GPS: Available
Compass: High

Location (DMS)
N 43°04'43.711"
W 75°18'07.714"

The location box shows the coordinates of the device. The default coordinate type is degrees/minutes/seconds (DMS). Tap the box to switch the type to MGRS.

Location (MGRS)
18T VN 62422 84481

Altitude (m) 100
Speed (m/s) 22
Compass (°MN) 17
Heading (°TN) 68

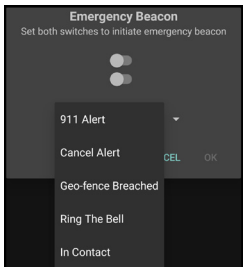
The other four boxes show (tap box to change units):

- Altitude (m or ft)
- Speed (m/s, kps, fps, mph)
- Compass (°MN or °TN)
- Heading (°MN or °TN)

Emergency Alert Beacon



An emergency alert beacon can be easily set from any location. The alert information will display to all TAK users across the server. The widget in the lower left of a TAK user's map will display where the alert is in relation to their own user marker.



To initiate an emergency alert beacon, select [**Emergency**] on the TAK Tracker toolbar. Choose one of the four emergency buttons: [**911 Alert**], [**Geo-fence Breached**], [**Ring the Bell**], or [**In Contact**].

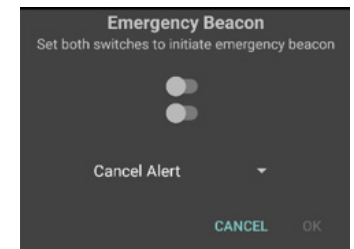
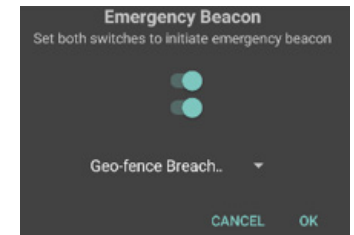


Slide the two buttons to the right, then select [**OK**] to initiate the Emergency Beacon.



The alert beacon will continue to broadcast across the network until the initiating user disables it. To cancel the alert, select the enabled [**Emergency**] button on the toolbar to reopen the Emergency Alert window.

Select [**Cancel Alert**] from the drop-down list. Slide the buttons to the right and select [**OK**] to immediately cancel the emergency alert beacon across all TAK devices in the network.



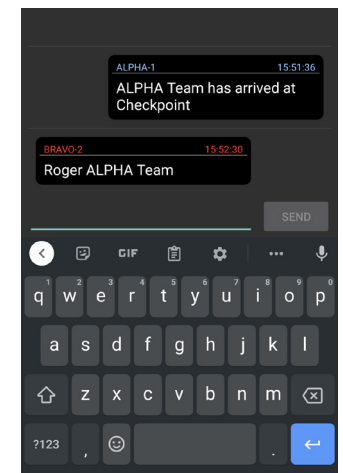
Chat



Selecting [**Chat**] allows communication via text message.



The chat icon will display the number of unread messages in red.



Options and Settings



Selecting [**Settings**] opens the Connection Settings window that allows the user to:

- Change callsign, team color or role.
- Enroll in a server with a username and password, or to manually enroll by importing SSL certificates.
- Start Service on Boot so that the TAK Tracker application always runs when the device is turned on.
- Hide Quit Button. The Quit Button can be made visible again by selecting [**Settings**] and unchecking the box.
- Change to Limited View Mode to only show the connection box in the main window. Select [**Settings**] and uncheck box to show all boxes again.



A settings password can be added by selecting [**Lock**] on the toolbar.

Selecting [**Import**] on the toolbar allows the user to import an SSL certificate .zip file as another method of enrollment.

Note: If TAK Tracker has not been allowed access to the Android file system, a prompt will open at this point to allow access.

The screenshot shows the 'Connection Settings' window with a dark theme. At the top right are icons for a lock and a download arrow. The settings are organized into sections: 1. General: 'Callsign:' is set to 'ALPHA-1'. 'Team:' is a dropdown set to 'Blue'. 'Role:' is a dropdown set to 'Team Lead'. 'Host:' and 'Port:' are empty text fields. 2. Enrollment: 'Username:' and 'Password:' are text fields, followed by an 'ENROLL' button. 3. SSL Section: A checked checkbox 'Use SSL' is followed by 'Cert PW:' and a text field. Below are 'Cert:' and 'Trust:' dropdowns, both set to '<Database>', each with a selection icon. 'Trust PW:' is a text field with a checked checkbox 'Same as Cert PW'. 4. Authentication: An unchecked checkbox 'Use Authentication' is followed by 'Username:' and 'Password:' text fields. 5. Boot and View: A checked checkbox 'Start Service on Boot', an unchecked checkbox 'Hide Quit Button', and an unchecked checkbox 'Limited View Mode'. A 'DONE' button is at the bottom right.