TRBONET Dispatch Systems

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AUTHORIZED APPLICATION PROVIDER MOTOTRBO™ MOTOROLA SOLUTIONS

TRBOnet Mobile Client for Android

User Guide

Version 3.5

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USA Office
Neocom Software
150 South Pine Island Rd., Suite 300
Plantation, FL 33324, USA

Sales
EMEA: +44 203 608 0598
Americas: +1 872 222 8726
APAC: +61 28 607 8325

www.trbonet.com
info@trbonet.com

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1 Introduction

1.1 About This Guide

This document is intended for end users of the TRBOnet Mobile Client software application installed on an Android mobile device. The document describes how to install and configure TRBOnet Mobile Client, make and receive radio network calls on a mobile device, exchange instant text messages with other radio network users, and manage jobs assigned to a user on the radio network.

1.2 About TRBOnet

TRBOnet is a suite of professional applications for MOTOTRBO digital two-way radio networks. TRBOnet manages voice and data communication paths across network endpoints. It provides a unified graphical dispatcher workbench interface for the entire range of workforce fleet management tasks.

For more information about TRBOnet products, refer to our website.

1.3 Contacts

Region	Phone	Email & Support
EMEA	+44 203 608 0598	info@trbonet.com — general and commercial inquiries support@trbonet.com — technical support https://trbonet.com/kb/ — online knowledge base
Americas	+1 872 222 8726	
APAC	+61 28 607 8325	

2 About TRBOnet Mobile Client

TRBOnet Mobile Client is a software application for Android smartphones that emulates the functionality of a two-way radio on a MOTOTRBO radio network monitored by the TRBOnet software.

With TRBOnet Mobile Client installed on your mobile device, you can interact with other two-way radios, Android devices, and TRBOnet control room personnel, transferring voice and data over Wi-Fi or mobile networks. Beyond the two-way radio capabilities, TRBOnet Mobile Client features job ticketing and vehicle location tracking on a mobile device.

2.1 Features

- Push-to-Talk (PTT) Group and Individual Calls
- Full-Duplex Individual Calls from and to Dispatchers and TETRA radios
- Dispatcher Calls
- Call Prioritization
- Microsoft Entra ID Authentication
- Encryption of Voice and Data
- Enhanced Data Security on Connection
- SIP Phone Dialer
- Home Channel Listening
- Request-To-Talk (RTT)
- Emergency Alarm
- GPS Positioning
- Chats: Text Messages, Attachments, Quick video and voice messages
- Job Ticketing
- Bluetooth or Wired Headset PTT buttons
- Connection Profiles with Redundant Servers
- Call History with Call recording
- Playback of Recent Conversations
- Lone Worker

2.2 Requirements

The hardware and software requirements to install and run TRBOnet Mobile Client v3.5 on an Android mobile device include:

- Android version: 6.0 and higher
- Network connection: Wi-Fi or 3G/4G/LTE

3 Installation

The latest version of the TRBOnet Mobile Client software application is available for download on the Google Play Store.

3.1 Installing TRBOnet Mobile Client

To install TRBOnet Mobile Client:

1. Visit the Google Play Store from your mobile device.
2. Type "TRBOnet" in the **Search** box and run the search.
3. Tap the TRBOnet Mobile Client application, then tap the **Install** button.

4 Voice Transmit Configurations

When connected to TRBOnet Server, the Mobile Client can transmit voice in two configurations:

- Via IP connection over repeater slots, or
- Through a dedicated Control Station

In the latter case, you need to additionally configure the control station and subscriber radios (see section 5, Configuring Control Stations and Subscriber Radios), as well as perform additional settings in TRBOnet Enterprise (see sections 6.1.3, Settings for CP and LCP systems and 6.2.5, Settings for IPSC systems).

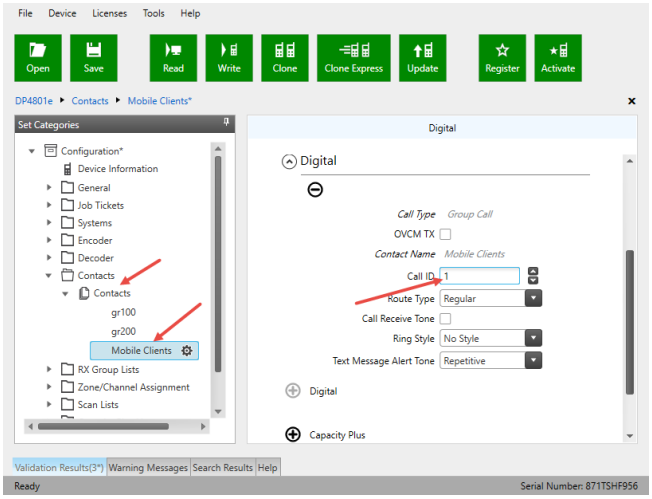
5 Configuring Control Stations and Subscriber Radios

If the Mobile Client uses a dedicated Control Station to transmit voice, it is necessary to appropriately configure the control station and subscriber radios. To do this:

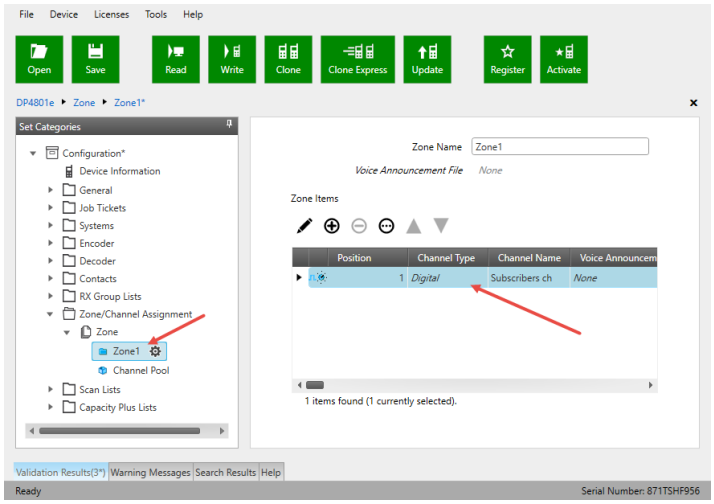
- Connect the radio to the PC.
- Run MOTOTRBO CPS.

5.1 Configuring Control Station

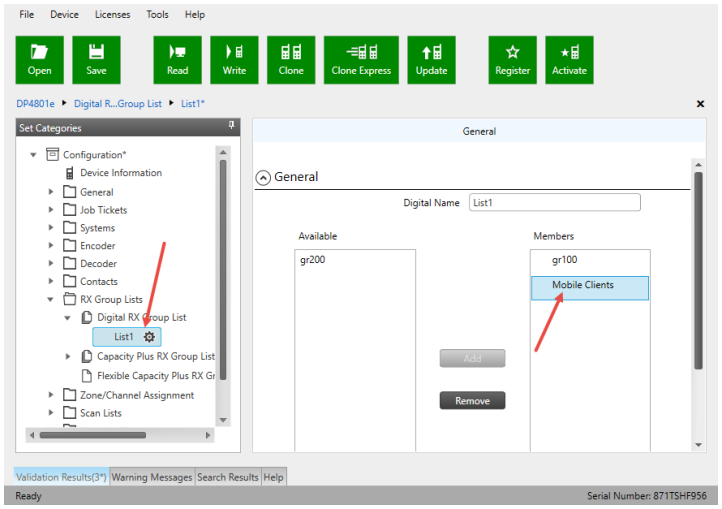
- Add a Mobile Clients group contact to the control station's contacts.

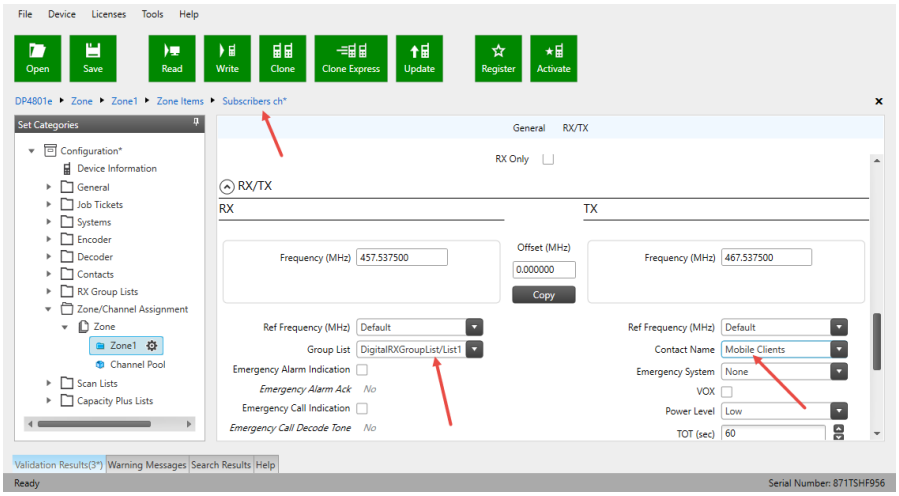


- Add the channel the subscribers will operate on.



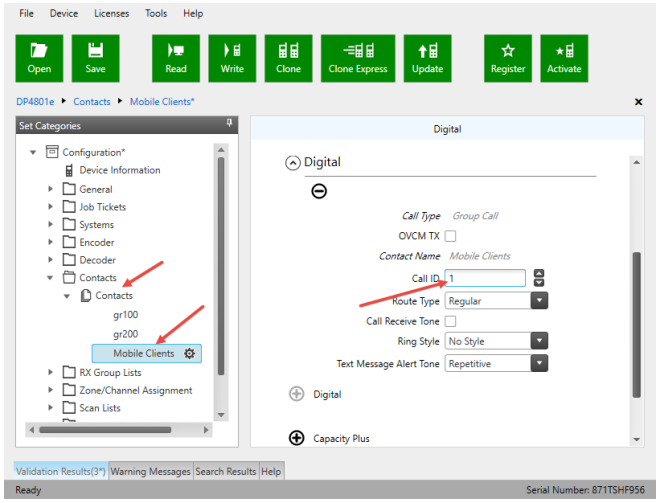
- Set this Mobile Client group as both RX and TX contact on this channel.


File
Device
Licenses
Tools
Help
Open
Save
Read
Write
Clone
Clone Express
Update
Register
Activate
DP4801e ▸ Digital R...Group List ▸ List1*
Set Categories
Configuration*
Device Information
General
Job Tickets
Systems
Encoder
Decoder
Contacts
RX Group Lists
Digital RX Group List
List1
Capacity Plus RX Group List
Flexible Capacity Plus RX Gr
Zone/Channel Assignment
Scan Lists
General
General
Digital Name
List1
Available
Members
gr200
gr100
Mobile Clients
Add
Remove
Validation Results(3*)
Warning Messages
Search Results
Help
Ready
Serial Number: 871TSHF956

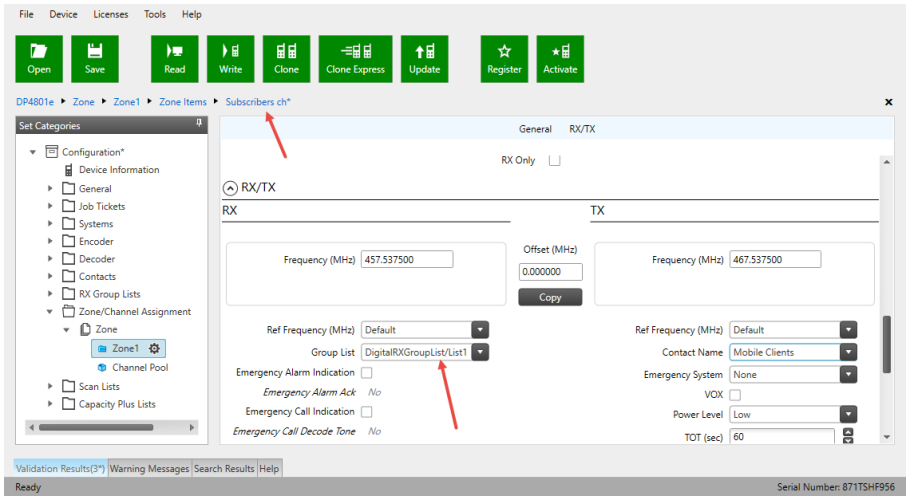

File
Device
Licenses
Tools
Help
Open
Save
Read
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Clone
Clone Express
Update
Register
Activate
DP4801e ▸ Zone ▸ Zone1 ▸ Zone Items ▸ Subscribers ch*
Set Categories
Configuration*
Device Information
General
Job Tickets
Systems
Encoder
Decoder
Contacts
RX Group Lists
Zone/Channel Assignment
Zone
Zone1
Channel Pool
Scan Lists
Capacity Plus Lists
General
RX/TX
RX Only
RX/TX
RX
TX
Frequency (MHz)
457.537500
Offset (MHz)
0.000000
Copy
Frequency (MHz)
467.537500
Ref Frequency (MHz)
Default
Group List
DigitalRXGroupList/List1
Emergency Alarm Indication
Emergency Alarm Ack
No
Emergency Call Indication
Emergency Call Decode Tone
No
Ref Frequency (MHz)
Default
Contact Name
Mobile Clients
Emergency System
None
VOX
Power Level
Low
TOT (sec)
60
Validation Results(3*)
Warning Messages
Search Results
Help
Ready
Serial Number: 871TSHF956

5.2 Configuring Subscriber Radio

- Add the Mobile Client group contact to the subscriber radio.



- Add the Mobile Client group contact to the RX group list the radio will use.



6 Configuring TRBOnet Enterprise

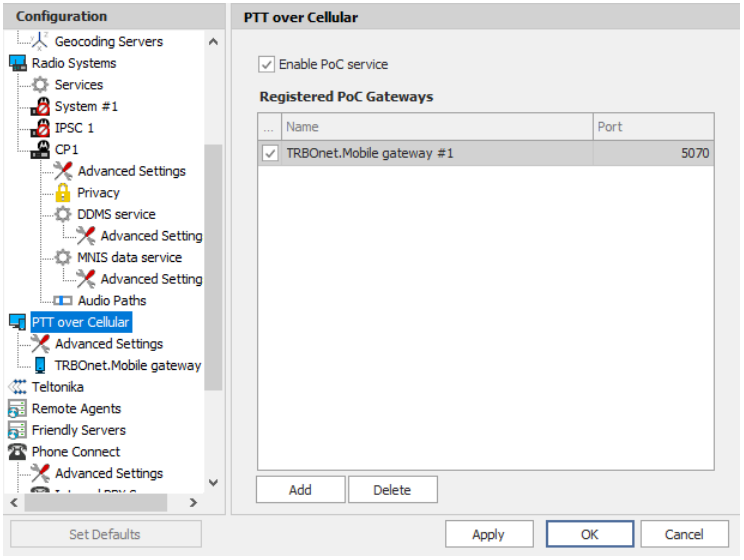
Before connecting TRBOnet Mobile Client to TRBOnet Enterprise, make sure that the Mobile System gateway has been configured in TRBOnet Server, and the corresponding TRBOnet Mobile Client account has been created in TRBOnet Dispatch Console.

Note: The version of TRBOnet Enterprise must be 6.0 and newer.

6.1 Configuring TRBOnet Server

This section describes how to configure TRBOnet Server.

- In the **Configuration** pane, select **PTT over Cellular**.
- In the **PTT over Cellular** pane, select **Enable PoC service**.



6.1.1 Advanced Settings

- In the **Configuration** pane, select **PTT over Cellular > Advanced Settings**.
- In the **Advanced Settings** pane, specify the following parameters:
  - **Max call duration**
    Specify the maximum duration of a call, in minutes.
  - **Registration interval**
    Enter the time interval, in seconds, to check the registration status of mobile subscribers.

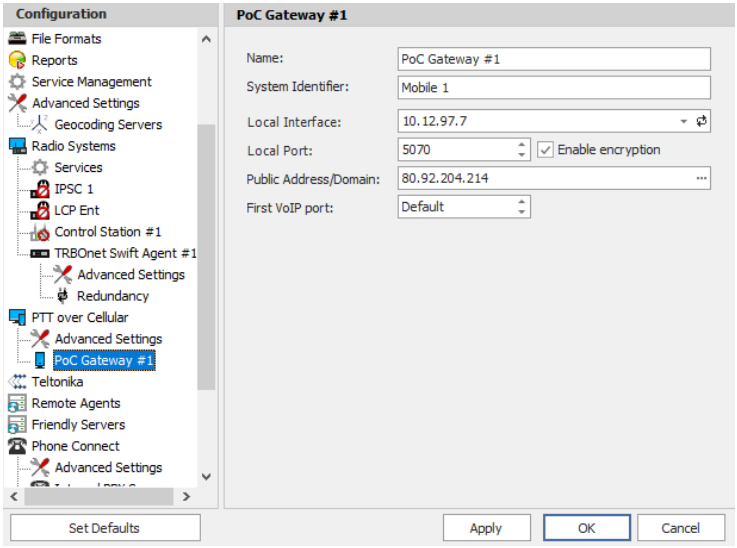
Call Hangtime

  - **Private call**
    This value sets the duration, in ms, during which the private call setup is kept after a Mobile Client user releases the PTT button.

- **TX timeout**
  Enter the time, in seconds, to be used as a limit for PTT calls. When a Mobile Client user starts a PTT session, transmission will be interrupted after this TX Timeout expires.
- **Video codec**
  From the list, select a video codec that will be used to encode video streams from PoC devices.
- **Crypto suites**
  In the list, select an encryption method or multiple methods that will be used to encrypt traffic between the server and PoC devices.

6.1.2 Adding a Mobile Gateway

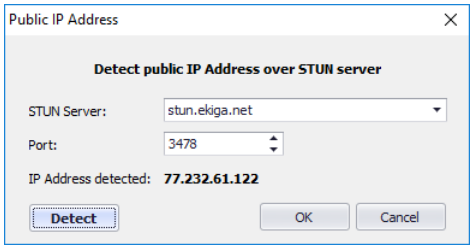
- In the **PTT over Cellular** pane, click **Add**.
- In the **Mobile Gateway** pane, specify the following parameters:



- **Name**
  Enter the name of the mobile gateway.
- **System Identifier**
  Enter the name of the mobile system to which the gateway will belong.
- **Local Interface**
  Enter the IP address of the PC with TRBOnet Server.
- **Local Port**
  Enter the local UDP port number for the Mobile service (5070, by default).
- **Enable encryption**
  Select this option to enable encryption of voice and data.

Note: Encryption must be enabled if Microsoft Entra ID Authentication is used for PoC devices.

- **Public Address/Domain**
  This is the public IP address of your PC. To detect the public address, click the ellipsis (**...**) button.



  - **STUN Server**
    From the drop-down list, select the STUN Server.
  - **Detect**
    Click this button to detect your public IP address.
- **First VoIP port**
  Enter the number of the first VoIP port for audio communications. The default value is specified in **Configuration > Network**.

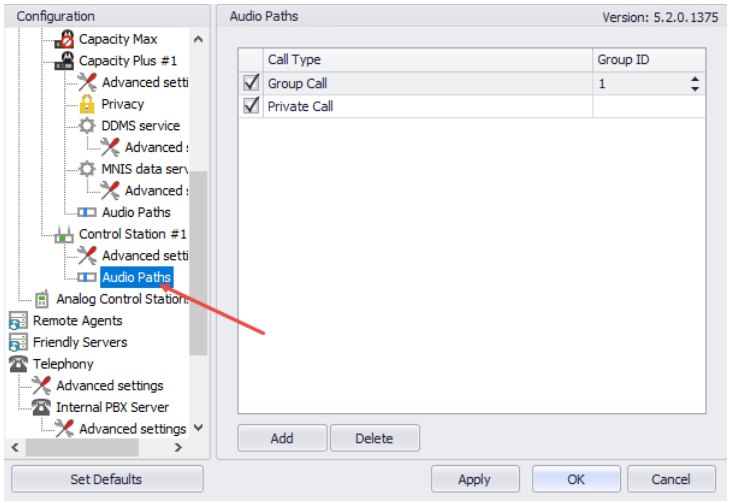
6.1.3 Settings for CP and LCP systems

If the Mobile Client uses a dedicated Control Station to transmit voice, it is necessary to appropriately configure audio paths on both the control station and master repeater.

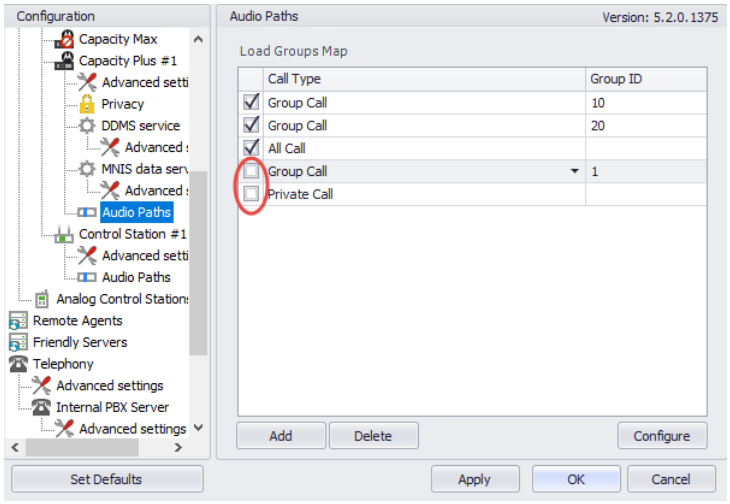
- In the **Configuration** pane, under the corresponding **Control Station**, select **Audio Paths**.

  In the **Audio Paths** pane:

  - Add a Group Call with the same ID you entered when you created the Mobile Group on the radio (**Call ID**).
  - Add a Private Call if you want to perform private calls from a Mobile Client.



Note: Make sure that the Group Call with the corresponding Group ID and the Private Call are not present, or are deactivated in the repeater's audio paths.



6.1.4 ShortDataMaxLength

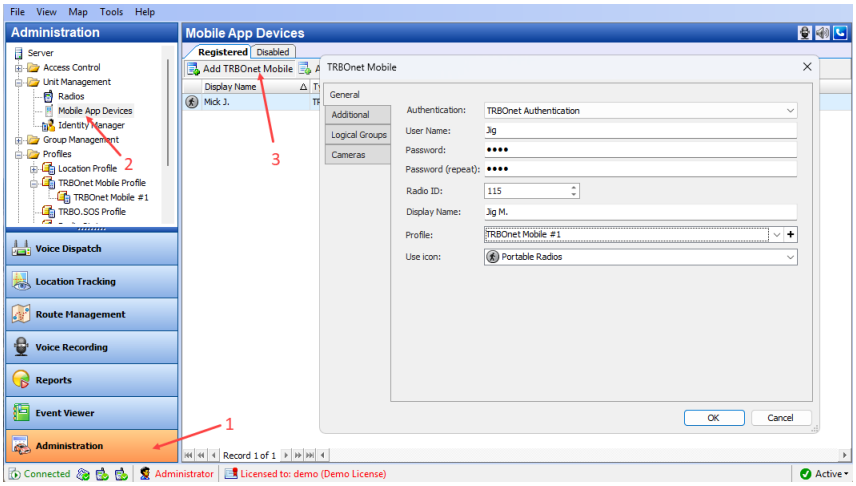
If you experience issues with sending files/images or loading contacts, try setting the value of the **ShortDataMaxLength** parameter to **0** in *TRBOnet.Enterprise.Server.config*

6.2 Configuring TRBOnet Dispatch Console

This section describes how to configure TRBOnet Dispatch Console.

6.2.1 Adding TRBOnet Mobile

- Go to **Administration** (1), **Unit Management > Mobile App Devices** (2) and click **Add TRBOnet Mobile** (3).



- **Authentication**
  From the drop-down list, select one of the authentication methods:
  - TRBOnet Authentication
  - Microsoft Entra ID

  For how to configure authentication methods, see *TRBOnet Enterprise/PLUS Authentication Methods User Guide*.
- **User Name**
  Enter the user name for the Mobile Client app user. Note that this is a case-sensitive value. See also section 7.1, Connecting to TRBOnet Server.
- **Password**
  Enter the password for the authentication.
- **Radio ID**
  Enter the Radio ID for the mobile client user. This ID is used by other calling radios when addressing the mobile client user, for instance, when making a private call or sending a text message.
- **Display Name**
  Enter a descriptive name for the Mobile Application user to display in the Dispatch Console.
- **Profile**
  Select the location profile for the mobile client user. See section 6.2.2, Adding Mobile Client Profile.

- On the **Additional** tab, specify additional information about the mobile client user:
  - **Route Color**
    Specify a color to display the route passed by the radio on the map.
  - **Load Image**
    Click this button and browse for the photo or image to assign to the radio.

- In the table below, specify the desired values for the custom fields.

- On the **Logical Groups** tab, specify logical groups for the mobile client user:
  - In the list of available groups, select desired group(s).
- On the **Cameras** tab, select the check box beside the camera that will be associated with the mobile client user.

6.2.2 Adding Mobile Client Profile

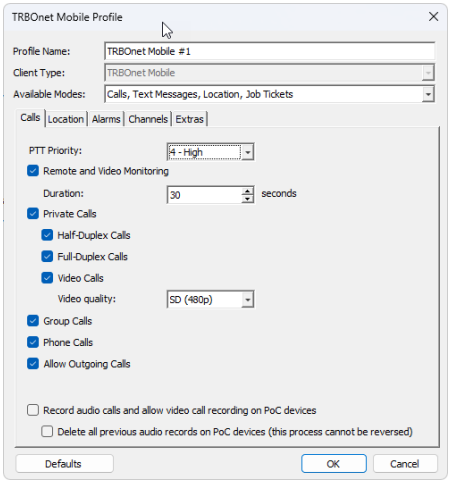
The Mobile Client Profile feature allows configuring different location profiles that can be applied to the Mobile Client app running on a smartphone.

- Go to **Administration > Profiles > TRBOnet Mobile Profile**.

  You can see the default Mobile Client Profile settings in the **TRBOnet Mobile Profile** pane.

To add a Mobile Client Profile:

- In the **TRBOnet Mobile Profile** pane, click the **Add** button.
- In the **TRBOnet Mobile Profile** dialog box, specify the following parameters:
  - **Profile Name**
    Enter a name for the mobile client profile.
  - **Available Modes**
    In the drop-down list, select/unselect the features that will be available to the associated Mobile Client.



- Click the **Calls** tab.
  - **PTT Priority**
    From the list, select the PTT priority for the mobile client calls.
  - **Remote and Video Monitoring**
    If you select this option, the dispatcher will be able to activate the device's microphone and camera in hidden mode.

- **Duration**
  Specify the remote monitoring duration, in seconds.

- **Private Calls**
  Select this option to allow the Mobile Client app to make private calls. In addition, you can select to allow:
  - **Half-Duplex Calls**
  - **Full-Duplex Calls**
  - **Video Calls**
    - ✓ **Video quality**
      Select the video quality that will be used for video calls (HD/SD/LD).
- **Group Calls**
  Select this option to allow the Mobile Client app to make group calls.
- **Phone Calls**
  Select this option to allow the Mobile Client app to make and receive phone calls.
- **Allow Outgoing Calls**
  Select this option to allow the Mobile Client app to make outgoing calls.

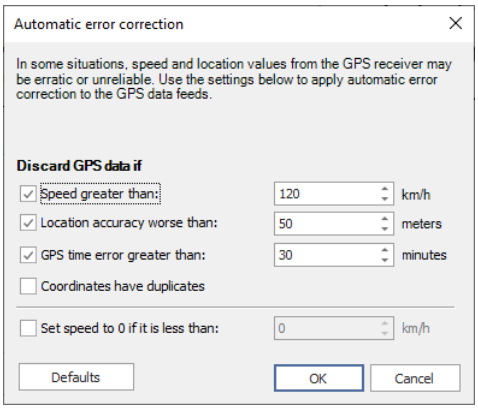
  Note: If this option is cleared, the Mobile Client app will still be able to send RTTs and respond to incoming radio calls within the call hang time.
- **Record audio calls and allow video call recording on PoC devices**
  Select this option to record audio calls on mobile devices running the Mobile Client app. A red record button will also appear on the video call screen, allowing users to record video calls.
- **Delete all previous audio records on PoC devices**
  Select this option to remove all previously recorded audio calls from mobile devices. Note that this process cannot be reversed.

- Click the **Location** tab.
  - **Show locations of other devices**
    Select this option so that the Mobile Client app will receive locations of other radios (mobile clients).
  - **Use GPS location**
    Select this option to enable sending GPS data to TRBOnet Server.
    - **Periodic interval**
      Specify the time interval, in seconds, that will be used to send GPS location data.

Note: Using an interval of 10 seconds or less may cause the following issues:
1) The mobile client's status will be blinking on the map if the **Coordinates have duplicates** option is selected in **Automatic error correction**.
2) The device's battery will quickly discharge.
3) The traffic between the server and the mobile client may significantly increase.

- **Emergency interval**
  Specify the time interval, in seconds, that will be used to send emergency messages.
- **Save GPS data to database**
  Select this option so that GPS data is saved in TRBOnet database.
- **Automatic error correction**
  Select this option to enable automatic error correction to detect and correct invalid GPS data.

  Click the **Configure** link and specify the GPS parameters to be corrected:



Discard GPS data if

- **Speed greater than**
  Select this option and enter the maximum possible speed of your vehicles. As a result, the coordinates with speeds that exceed the maximum limit will be discarded.
- **Location accuracy worse than**
  Select this option and enter the largest distance for the accuracy of the GPS receiver. As a result, the coordinates with distances that exceed the maximum limit will be discarded.

- **GPS time error greater than**
  Select this option and enter the largest allowable time error, in minutes. As a result, the coordinates with time errors that exceed the maximum limit will be discarded.
- **Coordinates have duplicates**
  Select this option to remove duplicate coordinates from the GPS data.
- **Set speed to 0 if it is less than**
  Select this option and enter the low-speed threshold. Speeds below this threshold will be considered as zero by the server.

- **Use Indoor location**
  Select this option to enable sending iBeacon data to TRBOnet Server.
  - **Periodic interval**
    Specify the time interval, in seconds, used to send iBeacon location data.
  - **Emergency interval**
    Specify the time interval, in seconds, that will be used to send emergency messages.
  - **Number of iBeacons**
    Specify the number of the most recently detected iBeacons whose data will be included in the data packet sent to TRBOnet.
  - **iBeacons filter**
    Click the **Add** link and enter the UUID of the beacons that will be used by the mobile client.
  - **Positioning Mode**
    This option determines which GPS coordinates to show on the map and display in the device's movement history when TRBOnet Server receives a data packet containing both iBeacon and GPS data.
    - ✓ **iBeacon Indoor/Outdoor**
      The coordinates of the iBeacons will be positioned on the indoor and outdoor maps.

Use case: When a person enters a building, the accuracy of the GPS location reported by their mobile device is likely to deteriorate. This may cause TRBOnet to show the device's location outside the building. Using coordinates of iBeacons positioned on the floor plan will prevent this from happening, and the route travelled by the person will also be correct. This is especially useful for reinforced concrete or high-rise buildings.

✓ **iBeacon Indoor/GPS Outdoor**
The coordinates of the iBeacons will be positioned on the indoor map while the coordinates of the device will be positioned on the outdoor map.

Use case: This option is used to show the route travelled by the person based on the GPS coordinates received from their mobile device rather than from a detected beacon, or when the speed and/or altitude of the device are used for some purpose. The user's icon will appear on the map twice, one icon will show their actual GPS location, whereas the other icon will appear over a detected beacon. Only iBeacon-based location will be displayed on the floor plan. When the device's GPS coordinates become unavailable, the device will be displayed over the detected beacon on both the map and the floor plan.

✓ **iBeacon Indoor/No Outdoor**
Only iBeacon-based location tracking will be used, GPS coordinates of devices and iBeacons will be ignored.

- **Allow users to disable location services**
Select this option so that users will be able to disable location services on their Mobile Client apps. To disable location services on a Mobile Client app, go to Settings > Power Saving > Position Accuracy > No location and GPS.

- Click the **Alarms** tab.
  - **Emergency Button**
  Select this option so that the Mobile Client app will be able to send Emergency Alarms to the Dispatch Console.
  - **Sensor Alerts**
  Select the desired sensor alert buttons (**Man Down**, **No Movement**, **Shake Detection**) to be shown in the Mobile Client app.
  - **Lone Worker on PoC devices**
    - **Lone Worker**
    Select this option to enable Lone Worker on the Mobile Client app.

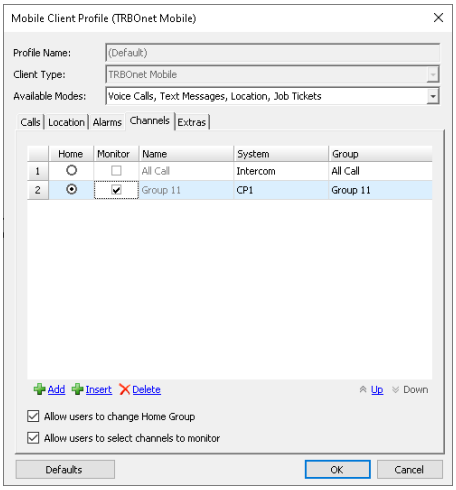
    ✓ **Available actions**
    In the drop-down list, select actions that will be available to the Mobile app user.

✓ **Profile**
From the drop-down list, select either one of the Lone Worker tasks or 'Use PoC Settings'. If you select 'Use PoC Settings', only the Lone Worker timeout will be available.

- **Show alarms from other devices**
  Select this option so that the Mobile Client app will receive alarms from other radios (mobile clients).
- **Allow users to enable or disable selected sensor alerts**
  Select this option so that the mobile app users will be able to enable or disable selected sensor alerts.

Note: If this check box is cleared, the selected sensor alerts will always be activated on mobile app devices and cannot be deactivated by mobile app users.

- Click the **Channels** tab.



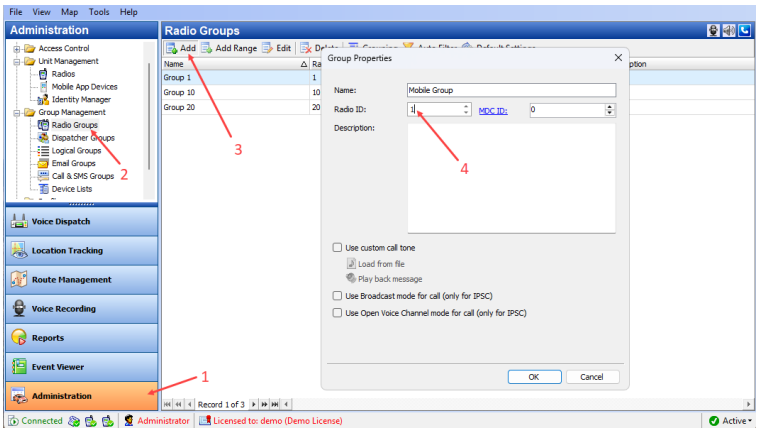
  - In the table, choose the Home Group channel on which the mobile app will transmit if the user presses the PTT button (**Home**). You can also check channels to be monitored (**Monitor**). To add/insert a channel (Radio Group) to the table, click the **Add/Insert** link and specify the **Name**, **System** and **Group**.
  - **Allow users to change Home Group**
    Select this option to allow users to change Home Group in their Mobile Client apps.
  - **Allow users to select channels to monitor**
    Select this option to allow users to select the channels they can listen to in their Mobile Client apps.
- Click the **Extras** tab.
  - **Battery Level**
    Select this option so that the smartphone's battery level will be sent to the Dispatch Console.

Note: Mobile apps send the battery information as soon as they are connected to TRBOnet. After successful connection, mobile apps pass the battery level to the server with every location update, voice transmission and text message. Regardless of its activity, a mobile app will update the battery charge level when it goes down to 90%, 80%, 70%, 60%, 50%, 40%, 30%, 20%, 15%, 10%, 5%.

- **Do Not Disturb**
  Select this option so that the DND mode will be enabled on the Mobile Client app.

6.2.3 Adding Mobile Group

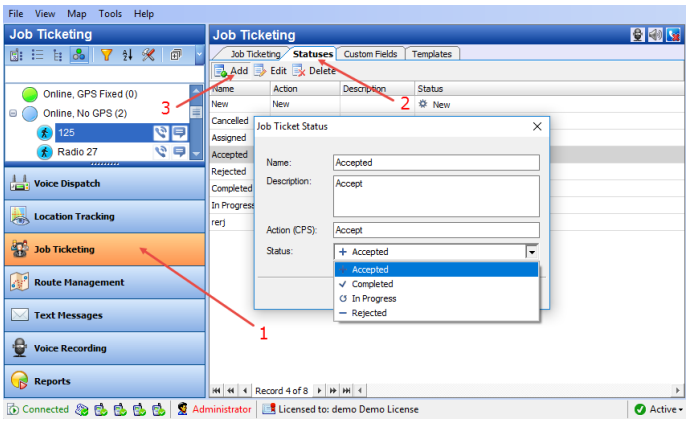
- Go to **Administration** (1), **Group Management > Radio Groups** (2) and click **Add** (3).



- **Radio ID** (4)
  Enter the same ID you entered when you were creating the Mobile Group on the radio (**Call ID**).

6.2.4 Adding Job Ticket Statuses

- Go to **Job Ticketing** (1), **Statuses** (2) and click **Add** (3).



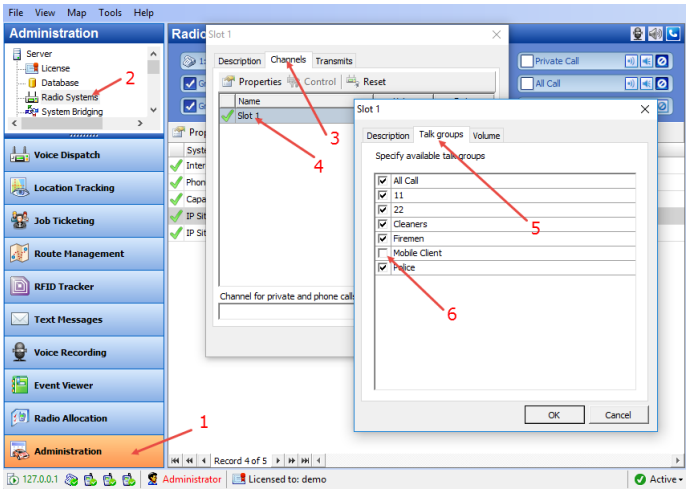
- **Name**
  Enter the Job Ticket status name to display in the system.
- **Description**
  Add a description for the job ticket status.
- **Action (CPS)**
  Enter the action name as specified in MOTOTRBO CPS.
- **Status**
  From the drop-down list, select the Job Ticket status (Accepted, Completed, In Progress, or Rejected).

6.2.5 Settings for IPSC systems

If the Mobile Client uses a dedicated Control Station to transmit voice, it is necessary to appropriately configure talk groups on both the repeater slots and control station.

6.2.5.1 Disabling Mobile Group on Repeater Slots

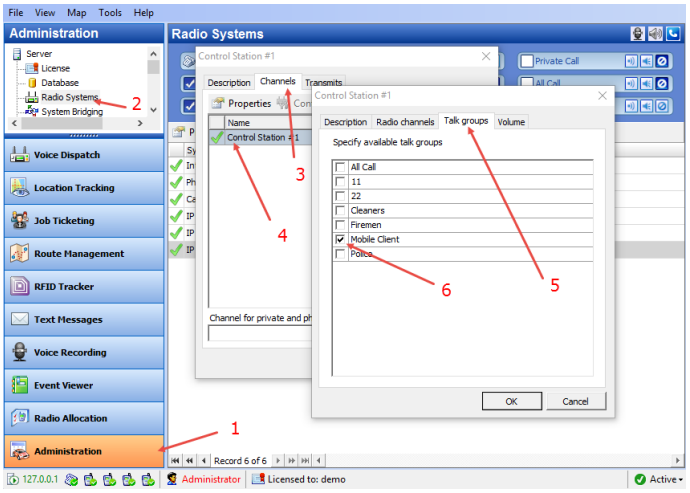
- Go to **Administration** (1), **Radio Systems** (2).
- In the **Radio Systems** pane, double-click the IP Site Connect Repeater/Slot.



- In the dialog box, select the **Channels** tab (3) and double-click the slot (4).
- In the dialog box, select the **Talk groups** tab (5) and make sure the Mobile Client group is unchecked (6).

6.2.5.2 Enabling Mobile Group on Control Station

- Go to **Administration** (1), **Radio Systems** (2).
- In the **Radio Systems** pane, double-click the Control Station.



- In the dialog box, select the **Channels** tab (3) and double-click the Control Station (4).
- In the dialog box, select the **Talk groups** tab (5) and make sure the **Mobile Client** group is checked (6), while the others are unchecked.

7 Getting Started

To launch TRBOnet Mobile Client on your mobile device, tap the TRBOnet Mobile icon on the screen. The login page appears on the screen.

7.1 Connecting to TRBOnet Server

On the login page, make sure the connection profile and credentials are correct, and tap **CONNECT**.

- **Connection Profile Name**
- **Login**
  The login for your TRBOnet Mobile Client application. See also section 6.2.1, Adding TRBOnet Mobile.
- **Password**
  The password for your TRBOnet Mobile Client application.

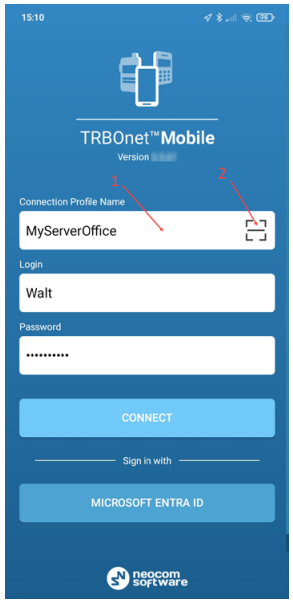
Note: If the connection cannot be established, make sure that your mobile device is connected to the network.

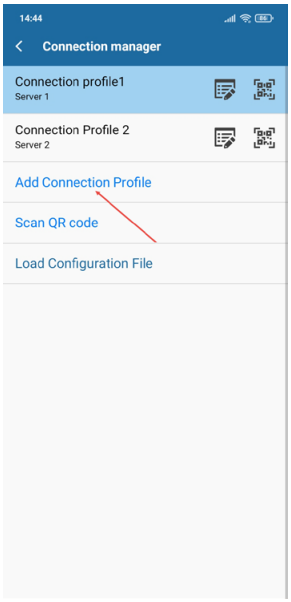
You can also sign in to TRBOnet Server with your Microsoft Entra ID account.

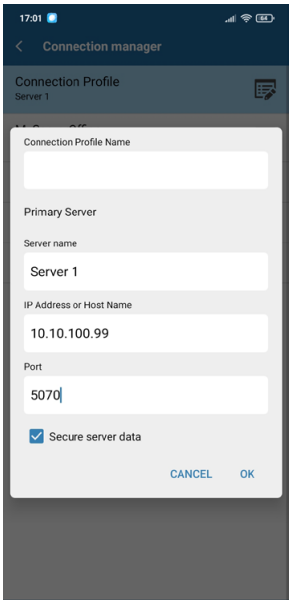
- Tap **MICROSOFT ENTRA ID** at the bottom of the screen and enter your Entra ID credentials.

7.1.1 Adding Connection Profile

To add a connection profile:







- Tap the **Connection Profile Name** (1).
- In the **Connection Manager** page:

- Tap **Add Connection Profile**, and in the box that pops up, enter the following information:
  - **Connection Profile Name**
    Enter the name of the profile.

Note: The connection settings in the figure serve as an example. Contact your administrator to get the actual connection settings.

Primary Server

- **Server Name**
  Enter the name of the primary server.
- **IP Address or Host Name**: The IP address or the host name of the TRBOnet Mobile Gateway.
- **Port**: The local port of the TRBOnet Mobile Gateway (by default, 5070, see sections 6.1, Configuring TRBOnet Server and 7.1.3, Recommended Port Numbers).
- Tap **OK**.

Or, to add a connection profile with the QR code:

- Tap the button on the right (2).
- While in the **Scan QR code** page,
  - Point the camera at the QR code and wait for the QR code to scan.
    As a result, the corresponding connection profile will be added to the list of connection profiles.

Or, to load settings from a configuration file:

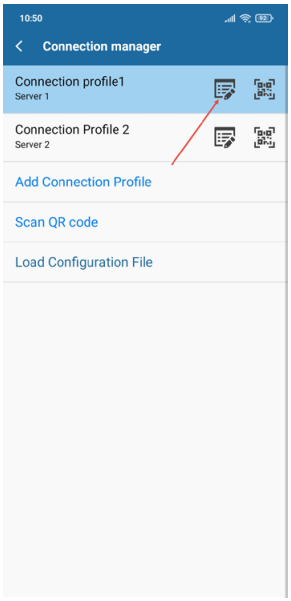
- Tap **Load Configuration File**, then navigate to the desired configuration file, and tap the file.

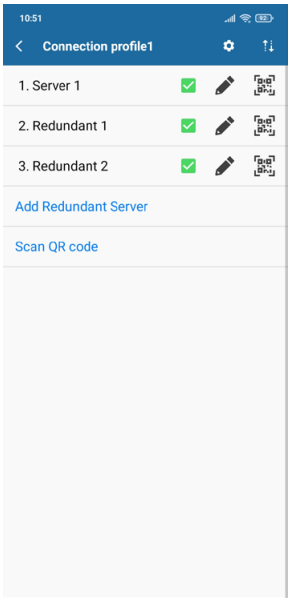
Note: The configuration file must be previously created in Settings > Configuration > Save Configuration File.

7.1.2 Editing Connection Profile

To edit the connection profile:

- In the **Connection Manager** page, tap the Edit button.





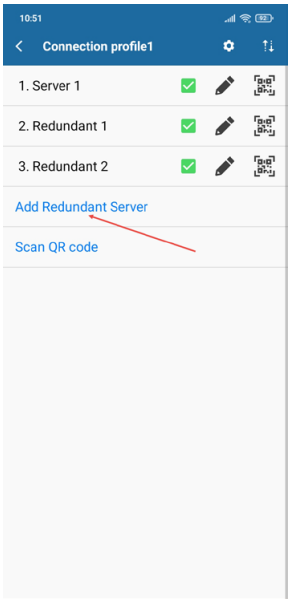
To get the profile's QR code:

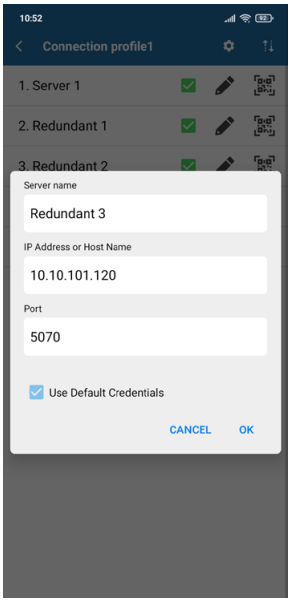
- In the list of connection profiles, tap the right-most button , and in the box that pops up, tap **Print** to print this QR code. You can also save the QR code on your device.

7.1.2.1 Redundant Servers

To add a redundant server to the connection profile:

- In the **Connection Profile** page, tap **Add Redundant Server**.
- In the box that pops up, enter the following information:
- **Server Name**
  Enter the name of the redundant server.
- **IP Address or Host Name**: The IP address or the host name of the TRBOnet Mobile Gateway.
- **Port**: The local port of the TRBOnet Mobile Gateway (by default, 5070, see sections 6.1, Configuring TRBOnet Server and 7.1.3, Recommended Port Numbers).
- If you want to use credentials other than the default credentials for the profile, uncheck the **Use Default Credentials** checkbox, and enter the desired **Login** and **Password**.
- Select the **Secure server data** checkbox to provide strengthened data protection.
- Tap **OK**.

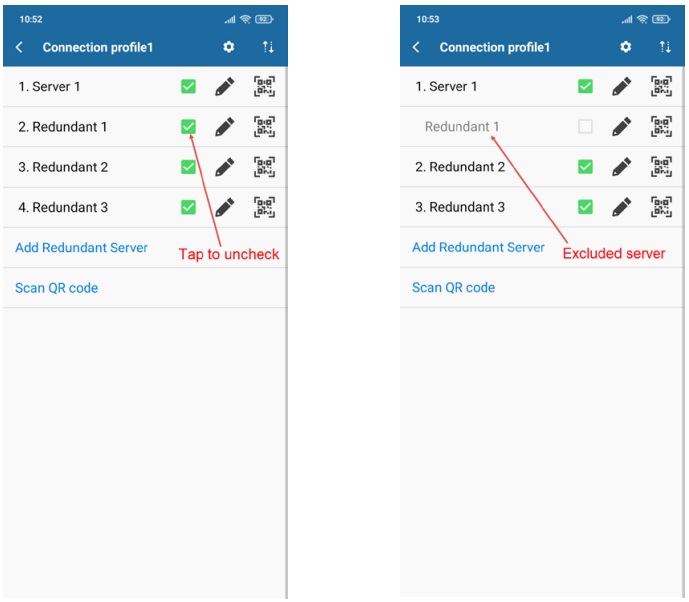




Or, to add a redundant server with the QR code:

- Tap **Scan QR code**.
- While in the **Scan QR code** page,
  - Point the camera at the QR code and wait for the QR code to scan. As a result, the corresponding server will be added to the list of servers.

To exclude the server from the list, uncheck the corresponding check box on the right of the server's name.



To edit the server properties, tap the pencil button on the right of the server's name, and in the box that pops up, enter the desired server information (Server name, IP Address, and Port).

To get the profile's QR code: In the list of servers, tap the right-most button , and in the box that pops up, tap **Print** to print this QR code. You can also save the QR code on your device.

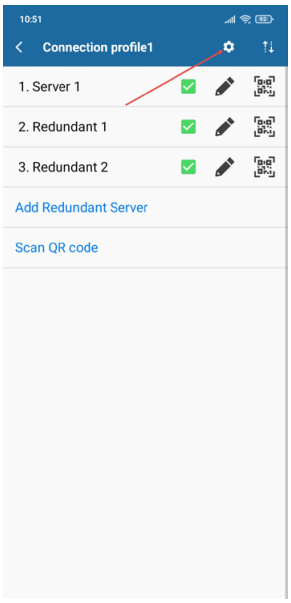
To change the priority of the servers, tap the right-most button in the title of the connection profile. In the **Change Priority** screen that opens, use the up and down arrows on the right.

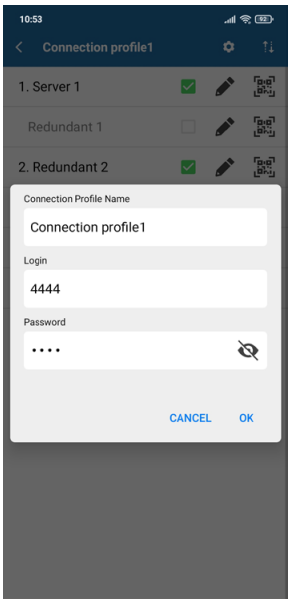
Note: The first checked server in the list will be used as the primary server, whereas the others will be used as redundant servers in their respective order.

7.1.2.2 Modifying Profile Properties

To change the profile name and default credentials:

- Tap the gear wheel button in the title of the connection profile.
- In the box that pops up, enter the desired parameters and tap **OK**.





7.1.3 Recommended Port Numbers

Available port range: 1024 - 65535
Recommended port value: **5070**.

7.1.4 Portrait and Landscape Views

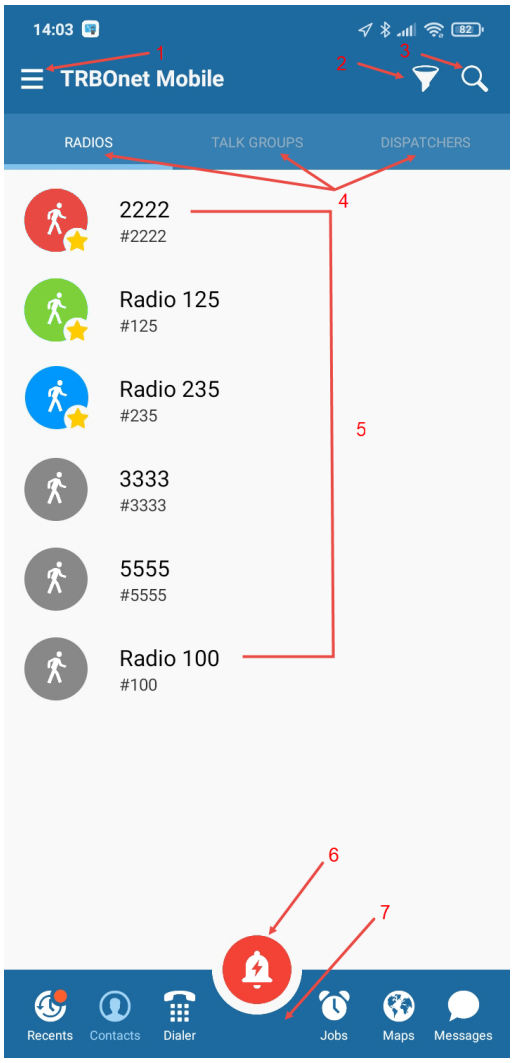
You can run the app in both Portrait mode and Landscape mode.

To run the app in the Landscape mode, turn off the "Lock orientation" option in the smartphone settings, then rotate the smartphone to a horizontal position, and when the screen turns to the landscape view, tap Connect.

To return to the Portrait mode, disconnect from TRBOnet Server, then rotate the smartphone to a vertical position, and when the screen turns to the portrait view, tap Connect.

7.2 Main Page

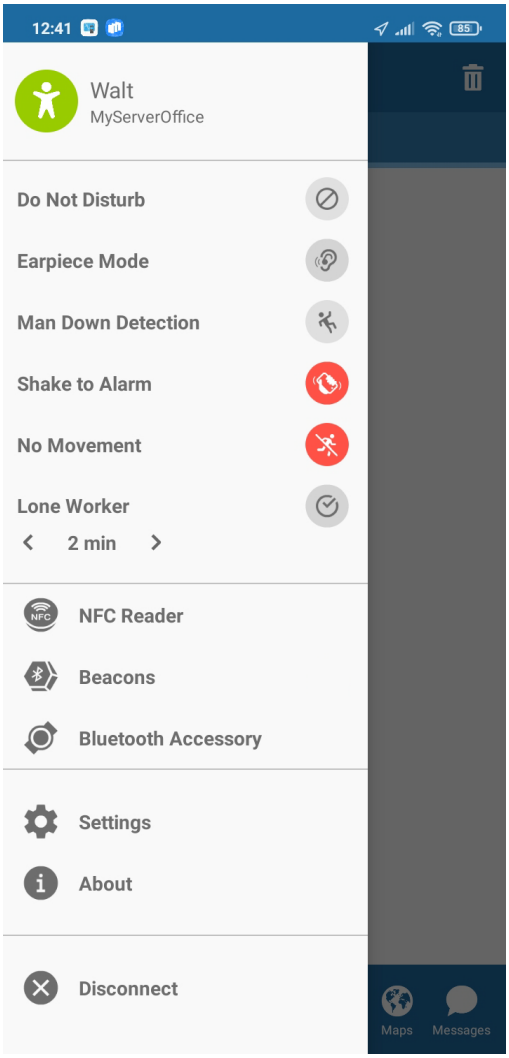
The main page of TRBOnet Mobile Client includes the following elements.



1. **Menu** button. Tap this button to expand the menu.
2. **Filter** button. Tap this button to select which radios are displayed in the list of radios.
3. **Search** button. Tap this button to display only those contacts that include the specified text pattern in their names and in smaller text below.
4. Contact lists. Tap **RADIOS**, **TALK GROUPS**, or **DISPATCHERS** to open the respective list of contacts.
5. Contacts. Tap a contact to open a submenu from where you can initiate a call, send a text message, or send a request to talk. Active contacts are marked with a green, blue, or red icon.
6. **Alarm** button. Long-press this button to send an alarm to all active radio network users.
7. **Navigation Bar**. Tap one of the icons to switch to the corresponding screen. See section 7.4, Navigation Bar.

7.3 Menu

To expand the menu, tap the **Menu** button. The menu items are as follows:



- **Do Not Disturb**: If you select this button (selected button turns red), radio calls to your Mobile Client will not be accepted. Instead, you will receive text notifications about missed calls. In addition, while in the DND mode, the PTT button is disabled and you can't make voice calls.
- **Earpiece Mode:** If you select this button (selected button turns red), audio will be routed through the phone's earpiece speaker (top speaker). Incoming calls can be played through the earpiece for greater privacy and discretion.
- **Man Down Detection**: If you select this button (selected button turns red), then Man Down alarm events will be triggered when the smartphone's tilt angle is below the threshold angle for a time longer than the pre-alarm duration.

- **Shake to Alarm**: If you select this button (selected button turns red), then Shake alarm events will be triggered when you physically move your smartphone from side to side a couple of times.
- **No Movement**: If you select this button (selected button turns red), then No Movement alarm events will be triggered when the smartphone's acceleration is below the threshold for a time longer than the pre-alarm duration.
- **Lone Worker**: To start the Lone Worker task, specify the timeout, and then select the Lone worker button (selected button turns red).

Note: The safety buttons will appear in the menu if the corresponding options are selected in the associated Mobile Client Profile (see section 6.2.2, Adding Mobile Client Profile, Alarms tab).
You can also modify the corresponding parameters in the application settings (see section 19, Settings, Safety parameters).

- **NFC Reader**: Tap for instructions on scanning NFC tags with your smartphone. Note that automatic scanning works when the app is in the foreground and the screen is on. See section 17, NFC tags.
- **Beacons**: Tap to open the **Beacons in Range** page (see section 16, Beacons).
- **Bluetooth Accessory**: Tap to connect a Bluetooth accessory (see section 18, Bluetooth Accessory).
- **Settings**: Tap to open the **Settings** page on which you can adjust the application settings (see section 19, Settings).
- **About**: Tap to learn about the software.
- **Disconnect**: Tap to log out.

7.4 Navigation Bar

The Navigation Bar is located at the bottom of the Main Page. Tap one of the icons below to switch to the corresponding screen.



- **Recents**
  Tap this icon to switch to the Recent Calls screen. See section 7.6, Recent Calls.
- **Contacts**
  Tap this icon to switch to the Contacts screen. See section 7.5, Contacts.

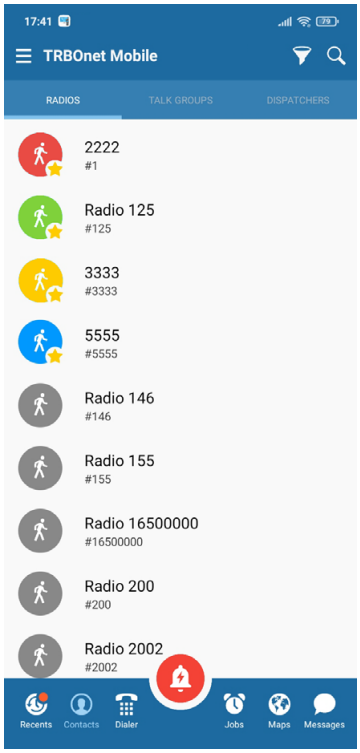
- **Dialer**
  Tap this icon to open the SIP Dialer screen. See section 12, SIP Dialer.
- **Jobs**
  Tap this icon to switch to the Jobs screen. See section 14, Jobs.
- **Maps**
  Tap this icon to switch to the Map screen. See section 15, Map.
- **Messages**
  Tap this icon to switch to the Text Messages screen. See section 13, Chats.

7.5 Contacts

Tap the **Contacts** icon in the Navigation bar (see section 7.4, Navigation Bar).

7.5.1 Radios

Tap **RADIOS** to open the list of radio and TRBOnet Mobile Client users registered on the network.



Each user appears in the list with the user name and identification number (radio ID) in a smaller font. The color of the icon indicates the network status of the user:

- **Gray**: Offline
- **Green**: Online, GPS Fix
- **Yellow**: Online, Beacon detected
- **Blue**: Online, No GPS Fix
- **Red**: Online, in Alarm

User names are sorted alphabetically. Online users are displayed on top.

Note: To narrow the range of displayed radio IDs, tap the Filter button and specify the range of radio IDs to display in the list of radios.

Tap a user on the **RADIOS** page. As a result, a submenu will appear:



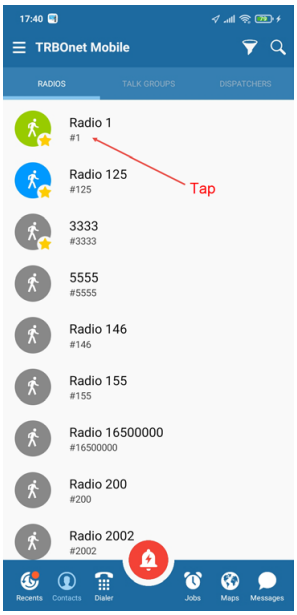
Radio 125
#125

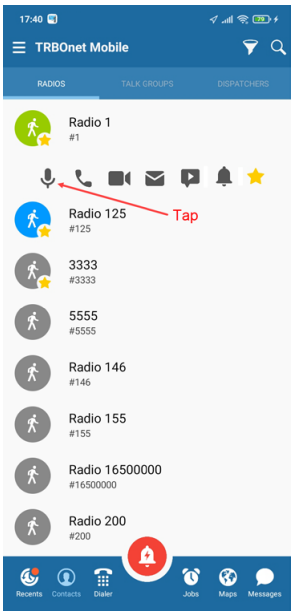


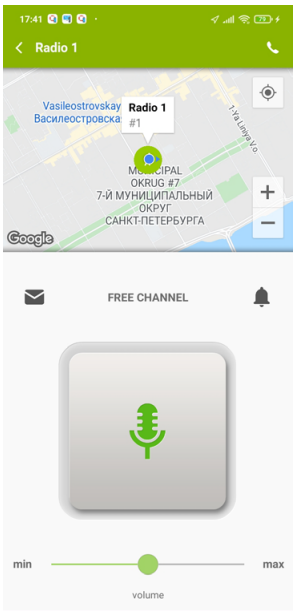
1. Tap this icon to open the user's page (PTT box). Or, just long-press a user on the **RADIOS** page. See section 9, PTT Calls.
2. Tap this icon to start a full-duplex call with the user. See section 10, Full-Duplex Calls.
3. Tap this icon to start a video call with the user. See section 11, Video Calls.
4. Tap this icon to send a text message to the user. See section 13, Chats.
5. Tap this icon to send a quick video message to the user. See section 13.3.3, Quick Video Messages.
6. Tap this icon to send a request to talk to the user. See section 9.6, Sending a Request to Talk to a Radio.
7. Tap this icon to add the radio to the Favorites list (selected star turns yellow).

Tap the mic icon (1) to open the user's page. The user's page displays the location of the user on the map. The color of the icon indicates the actual network status of the user. You can call and send a text message to an online user as described in sections 9, PTT Calls (page 44) and 13.3, Sending Messages (page 66).

If the user is offline, the text above the PTT button will read **Disabled** and the user cannot be called. Still, you can type a text message and resend it later.

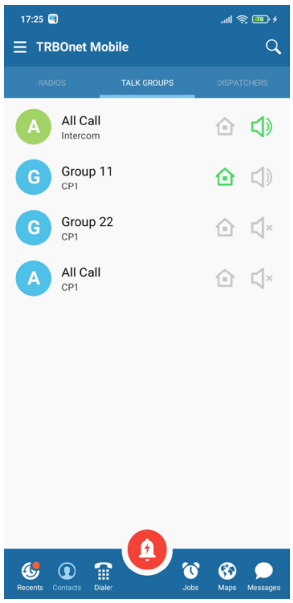






7.5.2 Talk Groups

Tap **TALK GROUPS** to open all talk groups to which you are registered as a member.



A talk group appears in the list with the group name and with the channel in a smaller font. Some talk groups use multiple channels and appear in the list more than once.

Note: To learn how to hide the channel information, refer to section 19, Settings, Appearance.

The icon in front of a talk group shows the first letter of the group name. The color of the icon has no special meaning.

The **Sound** icon next to the group name works as a button, helping you select one talk group for listening.

- Tap the **Sound** icon to start to listen to the talk group. The color of the icon changes to green.
- Tap the **Sound** icon again to stop listening. The icon becomes pale-gray.

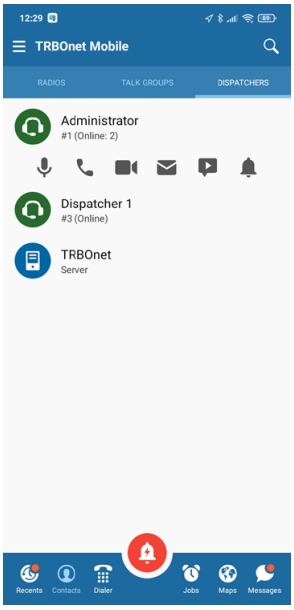
7.5.2.1 Selecting Home Channel

The green **Home** icon next to the group name indicates the selected Home Channel: pressing the hardware PTT button will start transmitting to the selected Home Channel. Tap the **Home** icon to toggle its state.

Note: You can also use a dedicated hardware switch (if any) to select a different home channel. In addition, if the corresponding option is selected in the app settings (see section 19.2, Audio, Text-to-Speech of the Home Channel), the home channel name will be announced by voice every time the home channel is changed.

7.5.3 Dispatchers

Tap **DISPATCHERS** to open the list of online TRBOnet operators.



Each operator appears in the list with the name and with the identifier of the session in a smaller font. In addition, in parentheses, you can see that the operator is online and the number of connections, if more than one user is connected under the operator's account.

TRBOnet is a system contact used to initiate automated tasks by sending text messages to TRBOnet Server and receive notifications and calls from it.

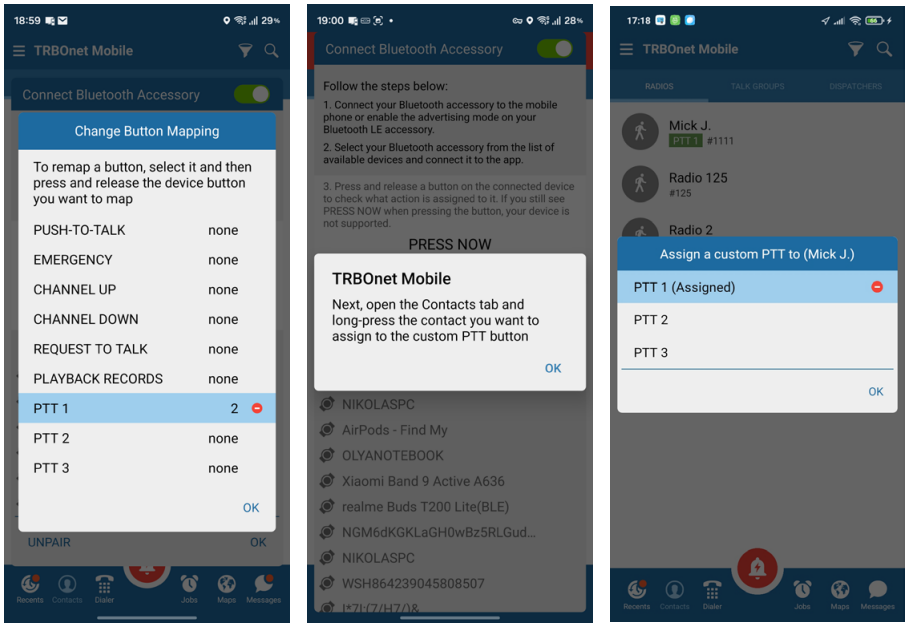
Tap an operator on the **DISPATCHERS** page. As a result, a submenu will appear from where you can make a PTT call, full-duplex call, send a text message or a request to call. Or, long-press an operator on the **DISPATCHERS** page to open the operator's page (PTT box).

For details, see sections 9, PTT Calls (page 44) and 13, Chats (page 64).

7.5.4 Assigning Custom PTT to Contact

You can assign custom PTT buttons to a contact (radio, talk group, or dispatcher).

- Remap custom PTT buttons (PTT 1-3) to hardware keys, wired accessories or input devices (see section 19, Settings, Remap Buttons Using Key Codes) or to the Bluetooth accessory buttons (see section 18.2, Remapping PTT Button).
- In Contacts, long-press a radio, talk group, or dispatcher, and in the menu that appears select a custom PTT key(s) for the contact.



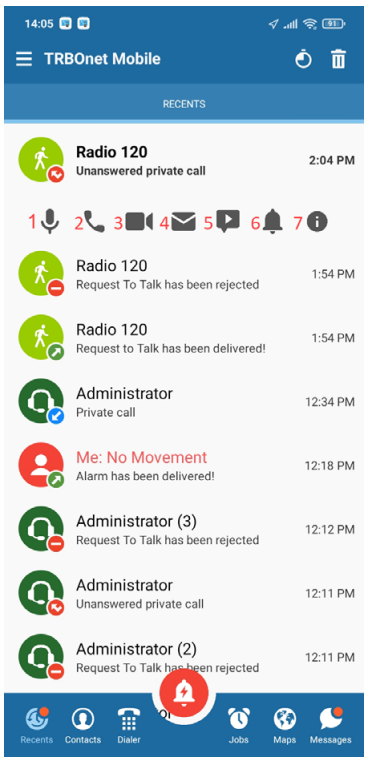
7.6 Recent Calls

To open the list of recent calls, tap the **Recents** icon in the Navigation bar (see section 7.4, Navigation Bar).

The **Recents** list contains private calls, group calls, dispatcher calls, alarms and requests to talk.

The colored arrow icons at the bottom-right of each call icon have the following meaning: red – missed calls, blue – answered calls, green – outgoing calls.

Tap an entry in the **Recents** list. As a result, a submenu will appear:



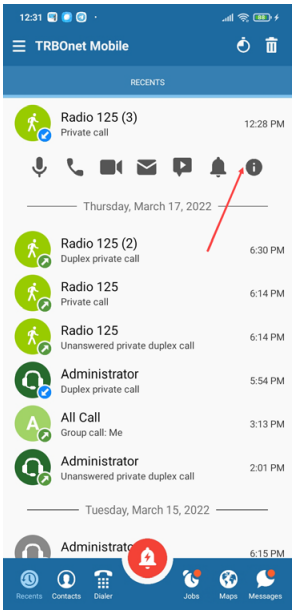
1. Tap this icon to open the user's page (PTT box). Or, just long-press an item in the **Recents** list. See section 9, PTT Calls.
2. Tap this icon to start a full-duplex call with the user.
   See section 10, Full-Duplex Calls.
3. Tap this icon to start a video call with the user.
   See section 11, Video Calls.
4. Tap this icon to send a text message to the user.
   See section 13.3, Sending Messages.
5. Tap this icon to send a quick photo/video message to the user.
   See section 13.3.3, Quick Video Messages.
6. Tap this icon to send a request to talk to the user.
   See section 9.6, Sending a Request to Talk to a Radio.

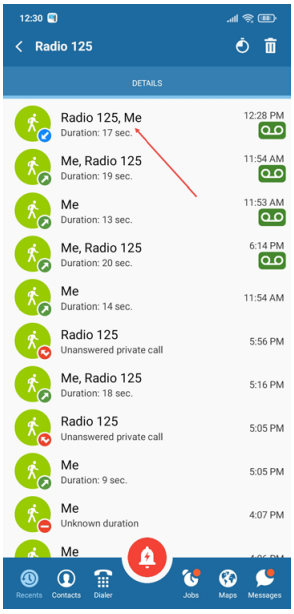
7. Tap this icon to see details for each call made to the user, like when it happened, how long it was, and whether it was incoming or outgoing, etc. See section 7.6.1 Viewing Detailed Call Info.

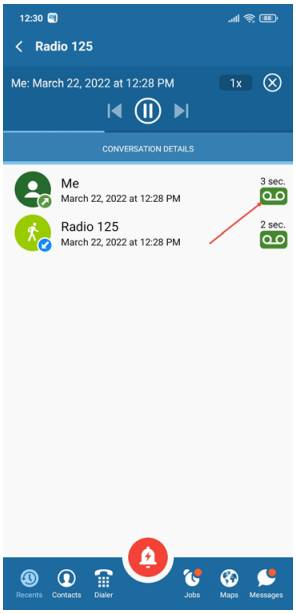
7.6.1 Viewing Detailed Call Info

To view the detailed info in the **Recents** list:

1. Tap an item in the **Recents** list.
2. On the menu that appears, tap the "**i**" icon.
3. See the detailed information about the calls to/from the corresponding user on the **Details** page.
   Tap an item on the **Details** page to see the **Conversation Details** page.
4. To play back the call recording, tap the tape reel icon on the right.

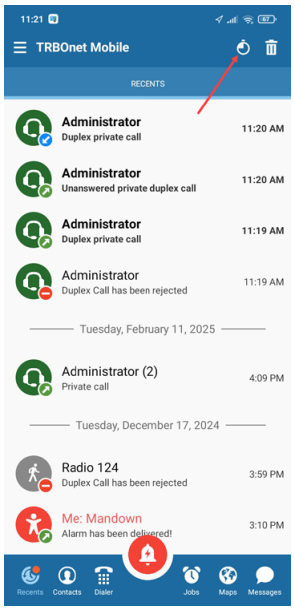


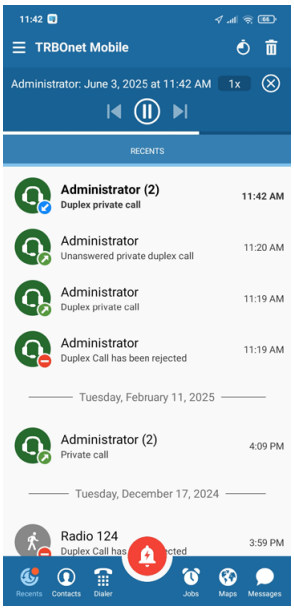




7.6.2 Playing Back Previous Records for Selected Period

To play back previous voice records, tap the stopwatch icon on the top right of the screen.





You can also select the playback duration for recordings (**Settings > Audio & Video > Playback Duration**) and whether to cut recordings according to the playback duration (**Settings > Audio & Video > Playback Options**). In addition, you can use a dedicated hardware button for playing back previous records (**Settings > Push-To-Talk Button > Remap Buttons Using Key Codes**).

7.7 Logging Out

To log out, open the menu and tap **Disconnect**.

8 Safety Features

This section describes how to use various safety features, which are available from the Menu.

Note: The safety buttons will appear in the menu if the corresponding options are selected in the associated Mobile Client Profile (see section 6.2.2, Adding Mobile Client Profile, Alarms tab).
You can also modify the corresponding parameters in the application settings (see section 19, Settings, Safety parameters).

8.1 Man Down

- Tap the **Menu** button and then select the **Man Down Detection** button (selected button turns red).

  As a result, the Man Down alarm events will be triggered when the smartphone's tilt angle is below the threshold angle for a time longer than the pre-alarm duration.

8.2 Shake to Alarm

- Tap the **Menu** button and then select the **Shake to Alarm** button (selected button turns red).

  As a result, the Shake alarm events will be triggered when you physically move your smartphone from side to side a couple of times.

8.3 No Movement

- Tap the **Menu** button and then select the **Shake to Alarm** button (selected button turns red).

  As a result, the No Movement alarm events will be triggered when the smartphone's acceleration is below the threshold for a time longer than the pre-alarm duration.

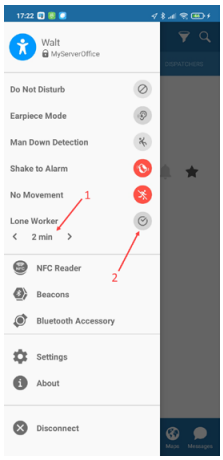
8.4 Lone Worker

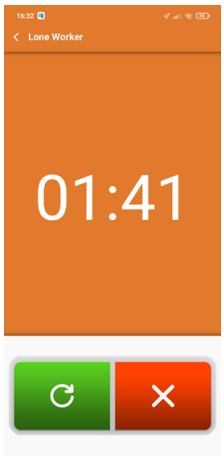
- Tap the **Menu** button, then specify the lone worker timeout (1, if available), and then select the Lone worker button (2).

  Note: The Lone Worker timeout can be specified if **Use POC Settings** is selected in **Mobile Client Profile > Alarms > Lone Worker > Profile** (see section 6.2.2, Adding Mobile Client Profile, Alarms tab). Otherwise, if a different Lone Worker profile is selected, you can only start the Lone Worker task.

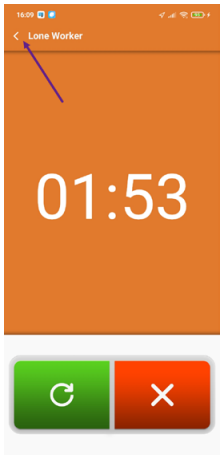
  The Lone worker screen will appear displaying the time remaining until the end of the task.

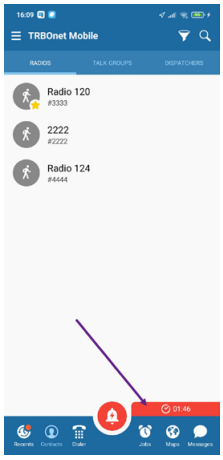
  - To stop, tap the red **Stop** button.
  - To reset, tap the green **Reset** button.





To minimize the Lone Worker screen, tap the Back button on the top of the screen. To restore the Lone Worker screen to its maximum size, tap the red bar indicating the remaining time on the bottom.





9 PTT Calls

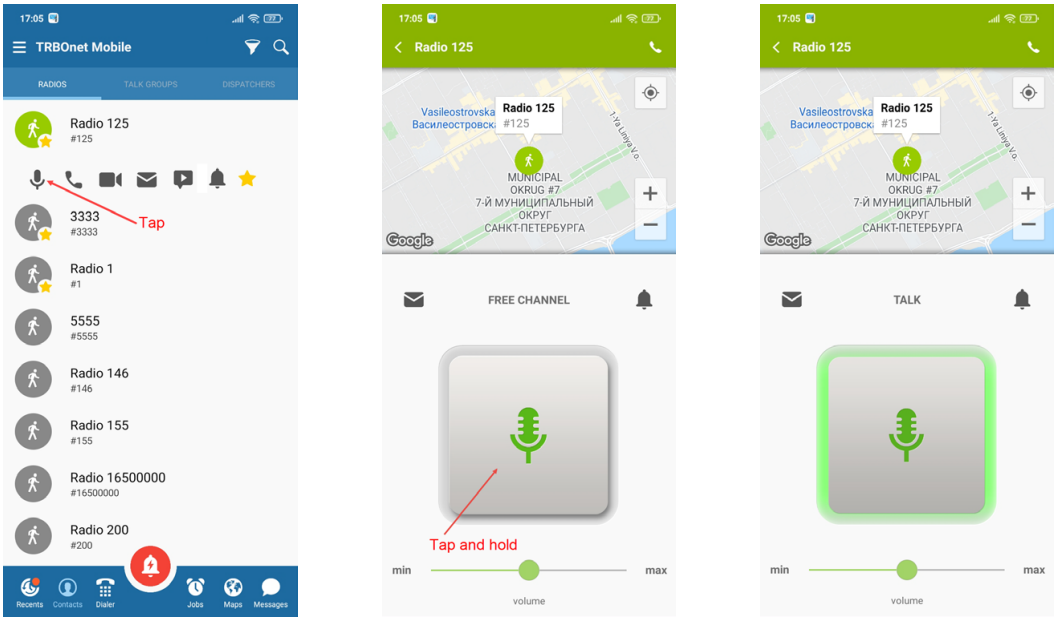
This section describes how to make and receive private calls and group calls, send and receive requests to talk, and listen to voice messages.

9.1 Making a Private Call

A private call is a one-to-one voice call between a calling party and a called party. You can make a private call to any active user on the **RADIOS** page or to any operator on the **DISPATCHERS** page.

To make a private call:

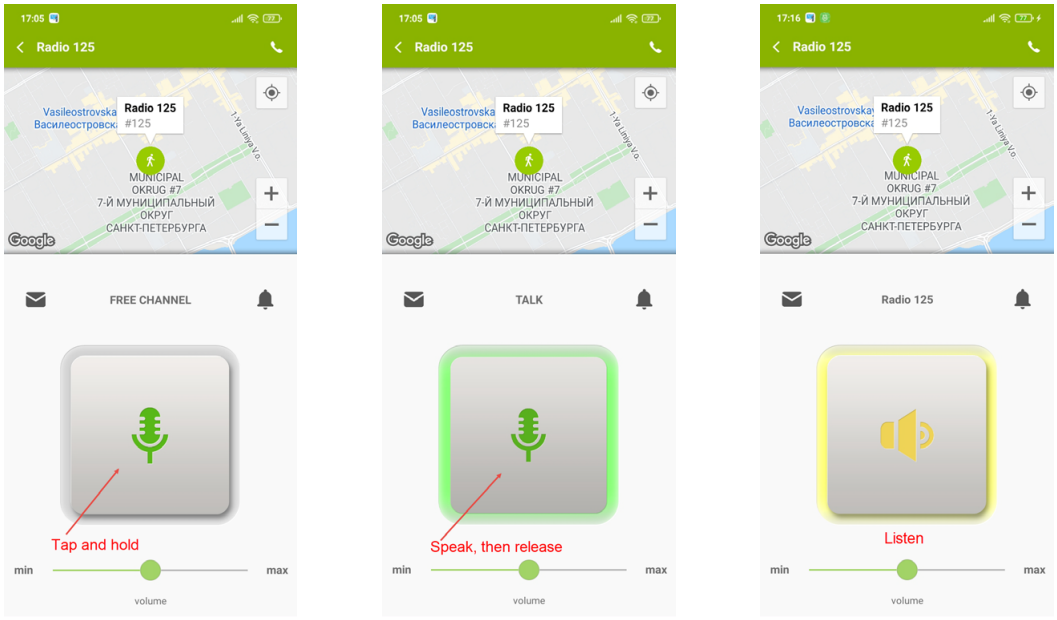
1. Tap **RADIOS** or **DISPATCHERS**. Then tap the preferred user or operator, respectively. On the submenu that appears, tap the mic icon. Or, just long-press the user in the list.
2. On the user's or operator's page, tap and hold the **PTT** button.



The private call is established when the text above the button changes from **FREE CHANNEL** to **TALK**.

Note: If the line is busy, then the text above the button will read: **Channel busy. Repeat call after channel clearing (603)**

3. To have a conversation, do the following:

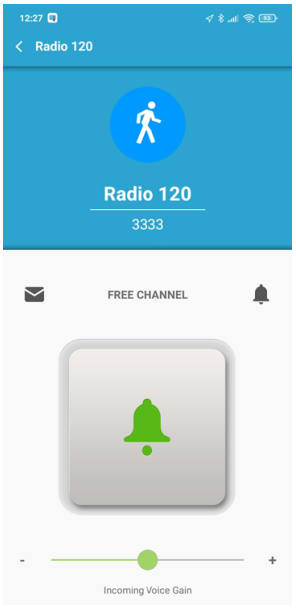


- To speak, tap and hold the PTT button.
- To listen to the other party, release the PTT button. When the PTT button turns yellow, you can only listen and the other party can speak.

4. To terminate the call, tap the **Back** button on the top bar to leave the called party's page. If the other party terminates the call, you see the **FREE CHANNEL** text above the PTT button on the called party's page.

Note: If there is no activity on the channel during the hangtime (typically, six seconds), the call terminates automatically.

If outgoing calls are not allowed (see section 6.2.2, Adding Mobile Client Profile, **Calls** tab), you will still be able to send RTTs. In this case, a bell icon is shown in the center of the PTT button.



9.2 Receiving a Private Call

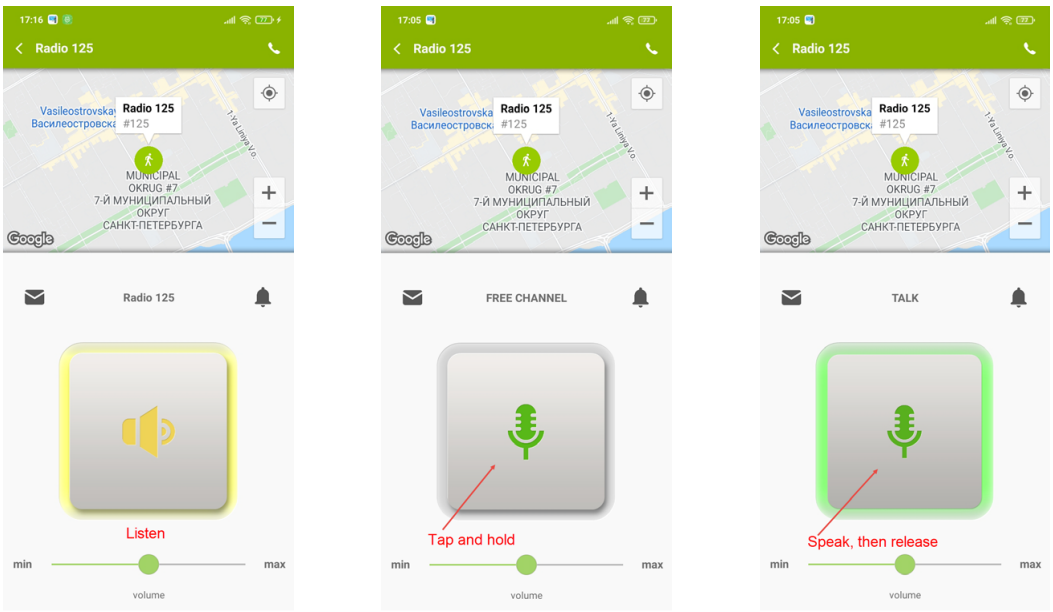
You can receive a private call from a radio user, a TRBOnet Mobile Client user, or any operator.

> Note: A radio user can make a private call to the TRBOnet Mobile Client user only if the Private Call Confirmed option is not selected for the radio channel on which the call is being made.

When you are called, TRBOnet Mobile Client receives an incoming call automatically. You start to hear voice and see the calling party's page with the PTT button turned yellow.

A conversation with a mobile user or operator

When you see the calling party's page with the PTT button turned yellow, you can only listen. When the PTT button changes to a green microphone, tap and hold the button to speak, then release the button.



Call termination

To terminate an incoming private call, tap the **Back** button on the top bar. When the call is finished by any party, you are redirected to the last visited page automatically.

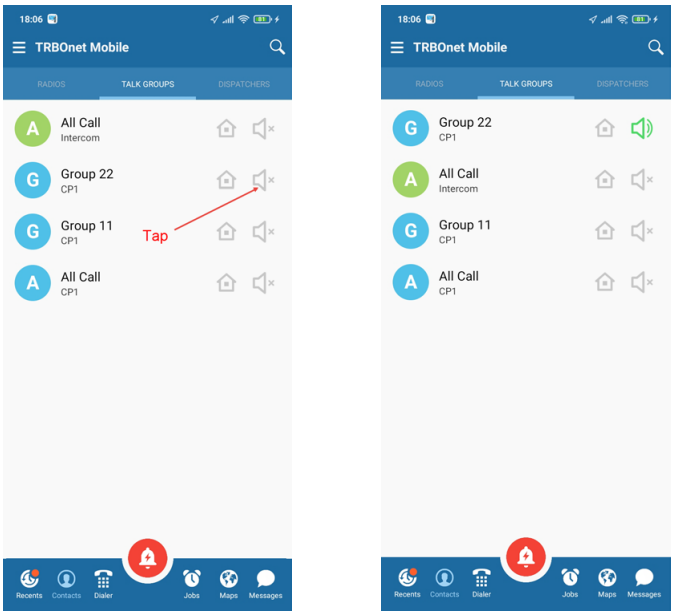
Missed calls

If you didn't answer a call, you will see the corresponding missed call notification in the **Recents** list (see section 7.6, Recent Calls), as well as in the **Messages** list (see section 13, Chats).

9.3 Listening to a Talk Group

The **TALK GROUPS** page shows all talk groups in which you are registered as a participant.

All talk groups on the **TALK GROUPS** page are muted by default. You can select up to three talk groups whose voice traffic you will be listening to on your mobile device. To select a talk group, tap the **Sound** button next to the preferred group on the **TALK GROUPS** page.

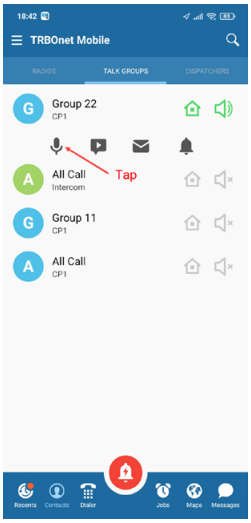


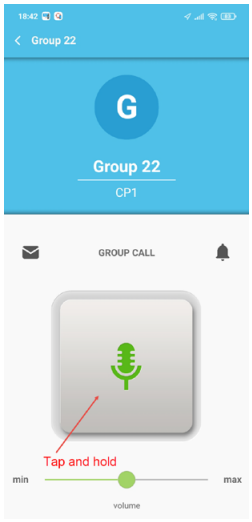
To mute the selected talk group, tap the **Sound** button again.

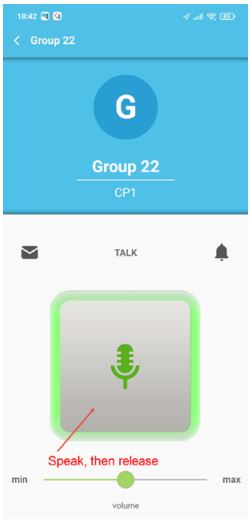
9.4 Making a Group Call

To make a group call:

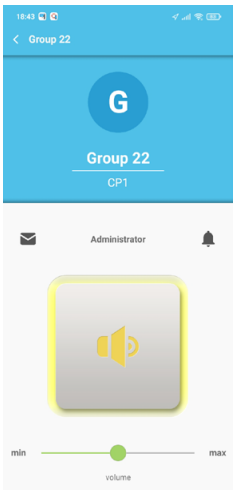
1. On the **TALK GROUPS** page, tap the preferred talk group. On the submenu that appears, tap the mic icon. Or, just long-press the talk group in the list.
   Or, if the talk group is marked as a Home Group (green Home icon), press and hold the external PTT key (see section 7.5.2.1, Selecting Home Channel).
2. To speak, tap and hold the central button (or, keep the external PTT key pressed) until the text above the PTT button changes to **Talk**. Release the central button (or, external PTT key) to let other call participants speak.
3. To leave the call, tap the **Back** button on the top bar.







When you speak to a talk group, all group listeners hear your voice. They do not see any identification of a speaker unless they join the call by opening the talk group page:



The talk group listeners who are busy having other calls do not hear your group call.

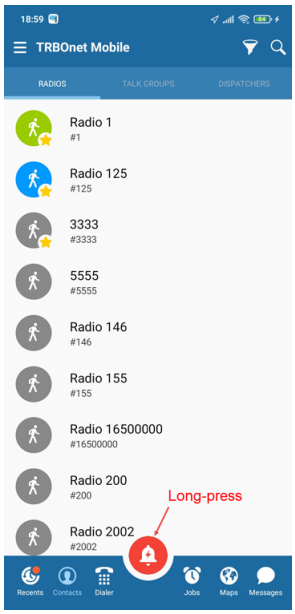
9.5 Sending an Alarm Message

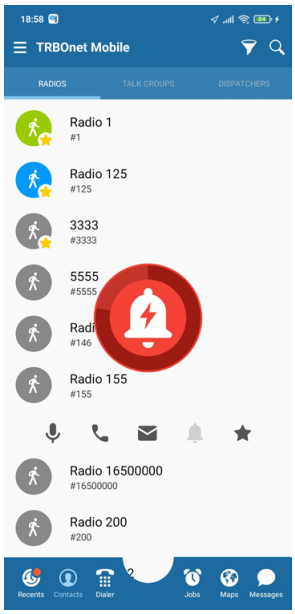
An alarm message is a data call that a radio user or a TRBOnet Mobile Client user can send to their co-workers to notify them about an emergency.

You can broadcast an alarm message to all operators on the **DISPATCHERS** page and all active TRBOnet Mobile Client users on the radio network. Radio users do not receive emergency calls.

To send an alarm message:

- Long-press (tap and hold) the **Alarm** button until it vibrates thrice. This button is available from most pages on your TRBOnet Mobile Client application.





Once done, you'll see the delivery confirmation on the screen. All participants will see your alarm notification on their devices. A participant can ignore your alarm or serve it by initiating a private call to you.

Note: In addition, alarms can be sent automatically, if appropriately configured (see section 6.2.2, Adding Mobile Client Profile, Alarms tab).

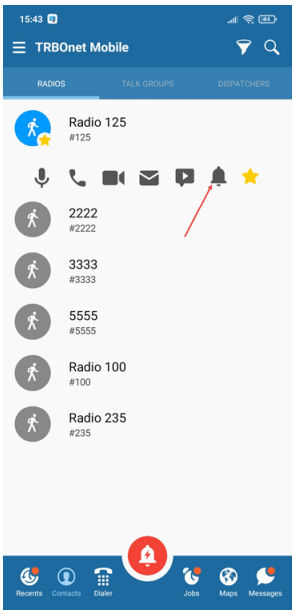
9.6 Sending a Request to Talk to a Radio

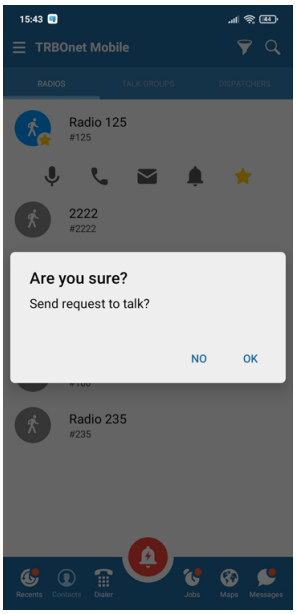
A request to talk is a request for a private call that you direct to any radio on the **RADIOS** page.

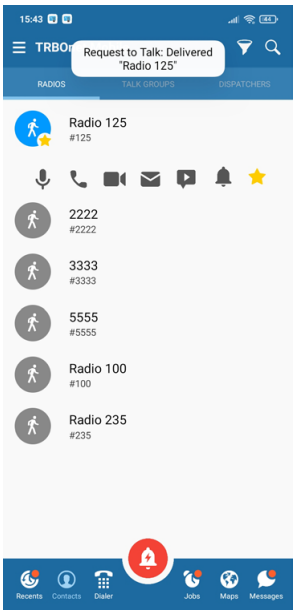
Note: A radio user can respond to a request to talk from the TRBOnet Mobile Client user only if the Private Call Confirmed option is not selected for the radio channel on which the request is received.

To send a request to talk:

1. On the **RADIOS** page (or **Recent Calls** page), tap a contact. On the submenu that appears, tap the bell icon.







2. Tap **OK** to confirm sending the request to talk.
3. See a notification on top of the screen saying that your request to talk was delivered.

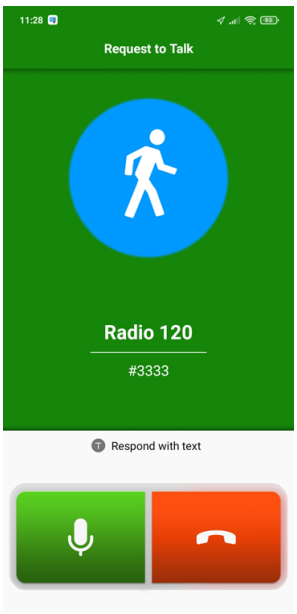
9.7 Receiving a Request to Talk from a Radio

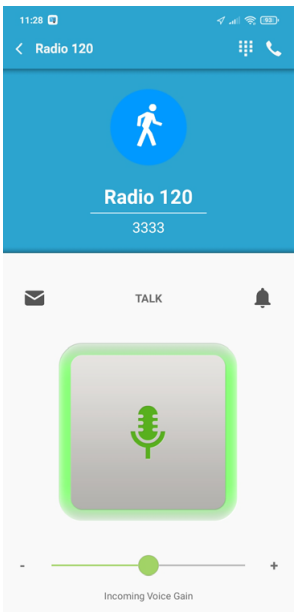
When someone on the radio network sends a call alert to you, you will get a Request to Talk notification on the screen. If you are having a voice call, an incoming alert will terminate it automatically.

Note: The TRBOnet Mobile Client user can respond to a request to talk from the radio only if the Private Call Confirmed option is not selected for the radio channel on which the request was sent.

You have the following options:

- To ignore the call alert, tap the red Decline button.
  Or, tap **Respond with text** and select one of the predefined messages from the list.
  As a result, a text notification about the rejected request to talk will be automatically delivered to the caller.
- To respond to the call alert, tap the green microphone button. Then tap and hold the **PTT** button to initiate a private voice call with the person who sent you the call alert.



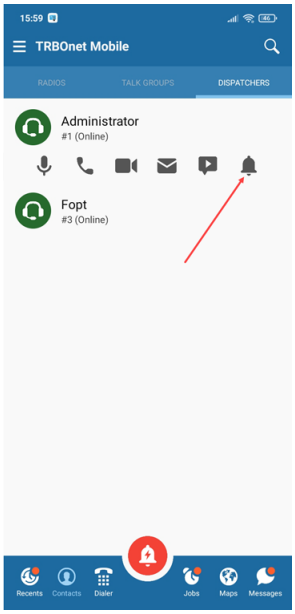


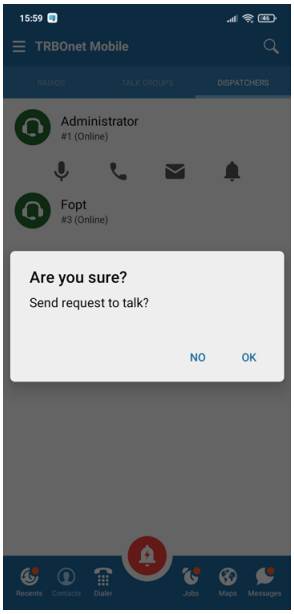
9.8 Sending a Request to Talk to a Dispatcher

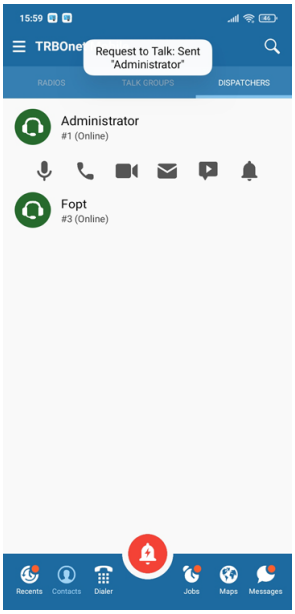
A request to talk is a request for a private call that you direct to any operator on the **DISPATCHERS** page.

To send a request to talk:

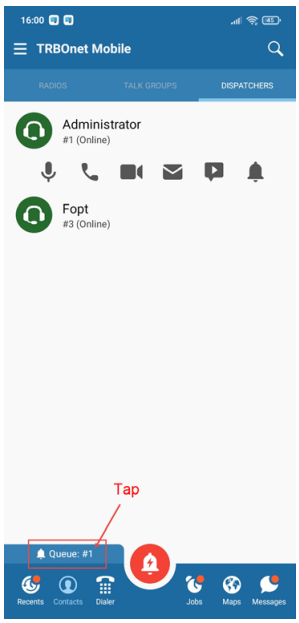
1. On the **DISPATCHERS** page, tap an operator. On the submenu that appears, tap the bell icon.

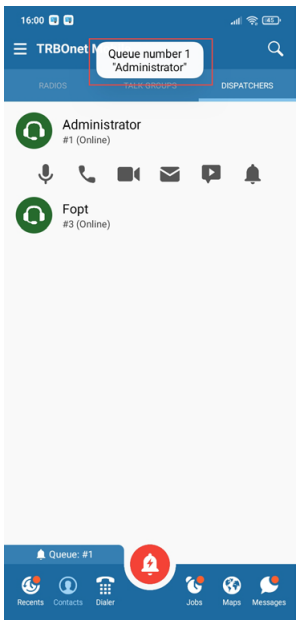




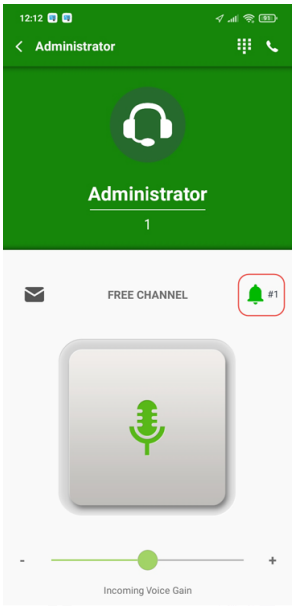


2. Tap **OK** to confirm sending the request to talk.
3. See a notification on top of the screen saying "Request to Talk. Sent".
4. The called operator can accept, queue or reject your request to talk.
   - If your request to talk is accepted, you will receive a private call from the operator.
   - If your request to talk is queued, you will see the Queue icon at the bottom left of the screen. Tap it and see the dispatcher who keeps your request to talk queued.





In addition, you will see the queue number of your RTT in all PTT boxes. In the PTT box of the dispatcher (talk group) to whom you have sent your RTT, the bell icon turns green.



If you send an RTT to another dispatcher, your previous RTT will be removed from this queue.

- If your request to talk is rejected, you will get a notification saying "Request to Talk. Call rejected".

Note: You can also send a request to talk to a Talk Group. Just click the **RTT** button while in a Talk Group. In this case, the request to talk will be received by the dispatchers that have access to this Talk Group.

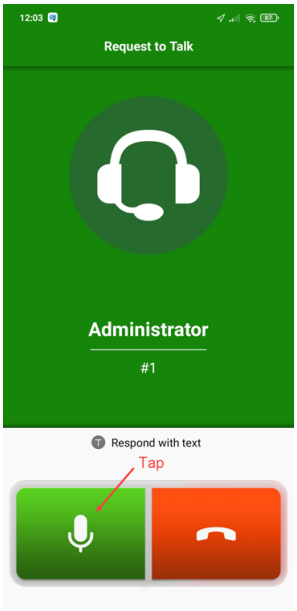
9.9 Receiving a Request to Talk from a Dispatcher

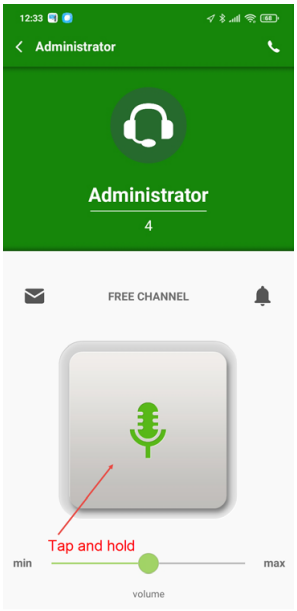
You can receive a request to talk (a request for a private call) from any operator displayed on the **DISPATCHERS** page.

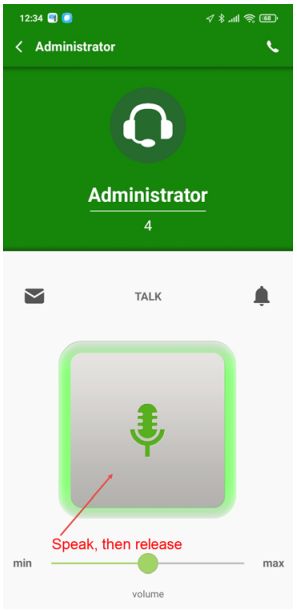
When your line is not busy

If your line is not busy, an incoming request to talk appears on the screen automatically. You have the following options:

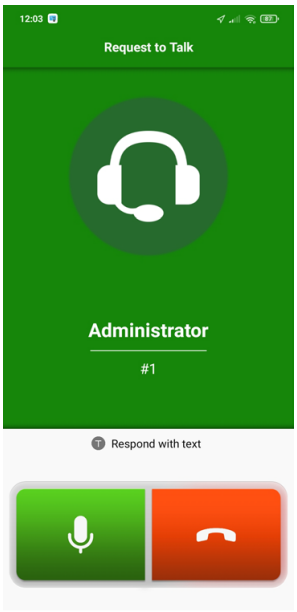
- To accept the request to talk, tap the green microphone button. On the operator's page, tap and hold the **PTT** button to initiate a private call.

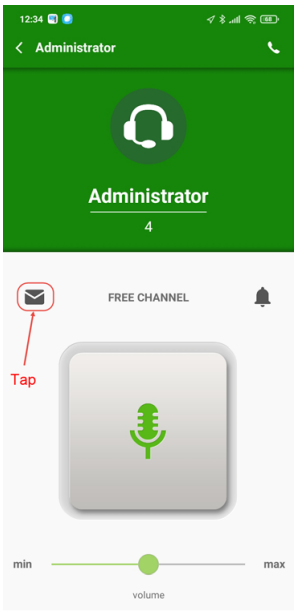


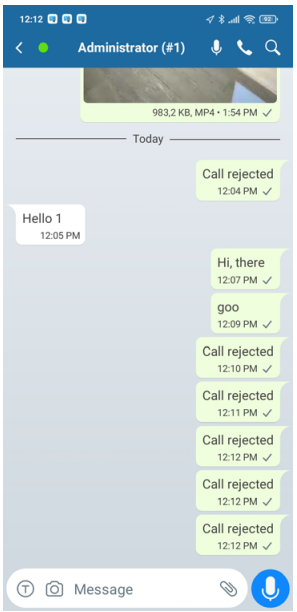




- To decline the request to talk, tap either **Respond with text** or the red Decline button. A text notification about the rejected request to talk will be automatically delivered to the operator.





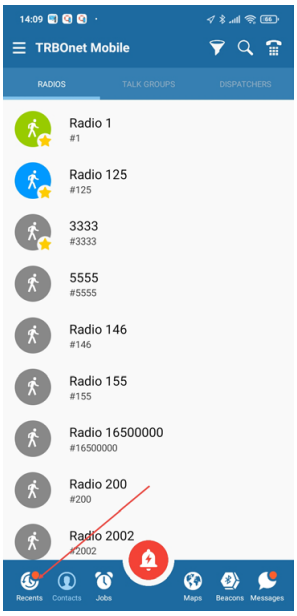


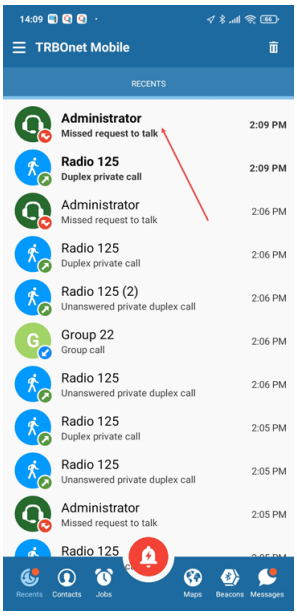
When your line is busy

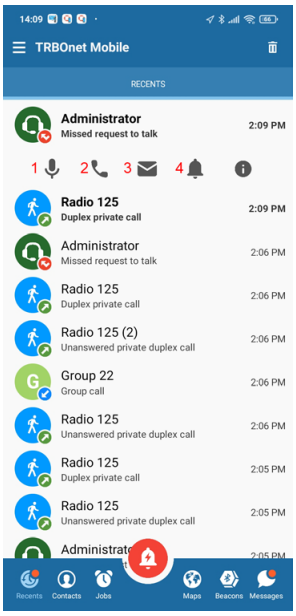
If you are busy having a voice call, you are notified about an incoming request to talk with a missed call request.

To learn who is requesting for a call, tap the **Recents** icon in the Navigation bar, then tap an item with missed requests to talk (displayed in bold).

From the menu that opens, you can either make a PTT call (mic icon, 1), make a full-duplex call (phone receiver icon, 2), send a text message (envelope icon, 3), or send a request to talk (bell icon, 4).





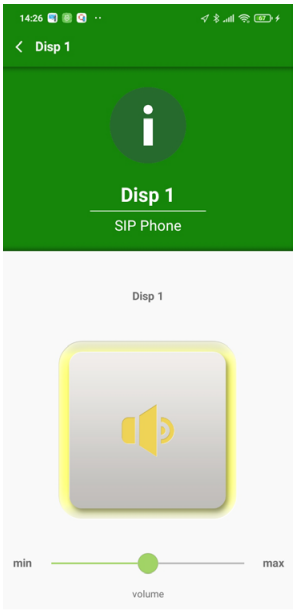


9.10 Listening to a Voice Message

Your mobile device can receive and play voice messages from a TRBOnet control room.

Private voice messages

When you receive a private voice message, you start to hear voice and see the voice message page on the screen. A voice message can be played in a loop. To terminate the voice message, tap the **Back** button on the top bar.

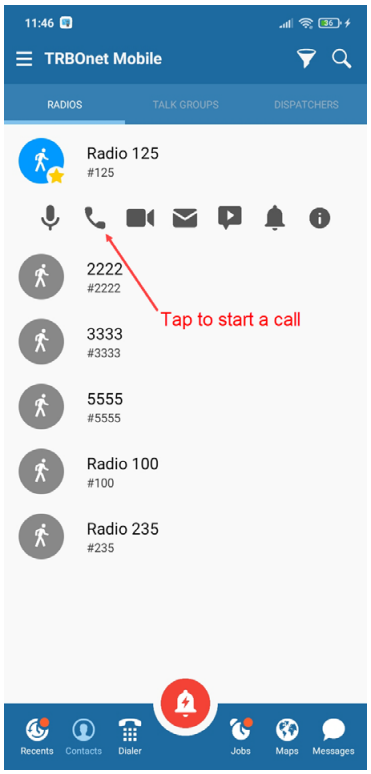


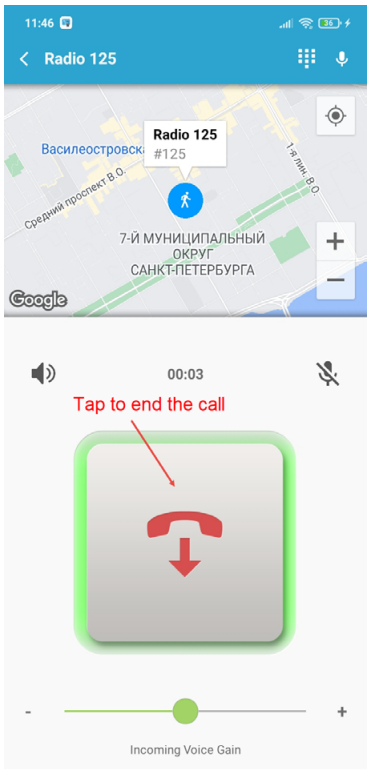
10 Full-Duplex Calls

This section describes how to make and receive full-duplex calls on the Mobile Client app.

10.1 Making a Full-Duplex Call

- Tap **RADIOS** or **DISPATCHERS**. Then tap the preferred user or operator, respectively. On the submenu that appears, tap the phone receiver icon.

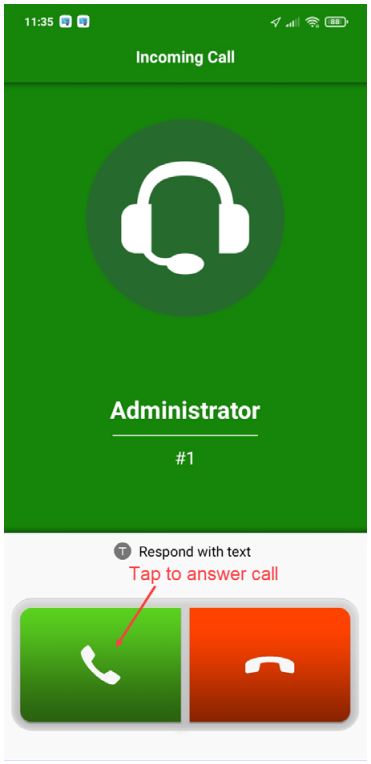


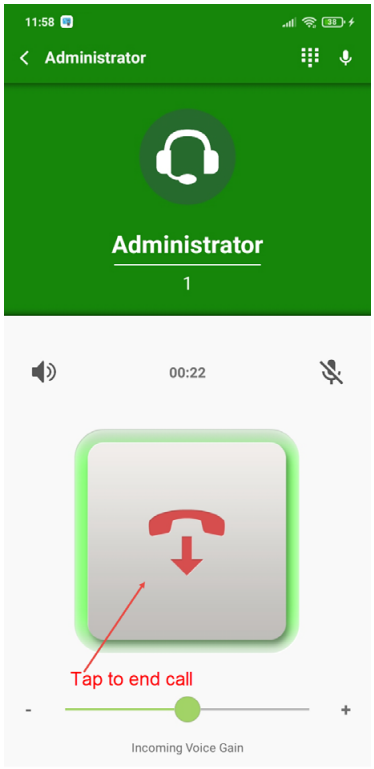


10.2 Receiving a Full-Duplex Call

When you receive a full-duplex call, the Incoming Call screen appears. To answer the call, tap the green Accept button.

To decline the call, tap either **Respond with text** or the red Decline button. A text notification about the rejected call will be automatically delivered to the operator.

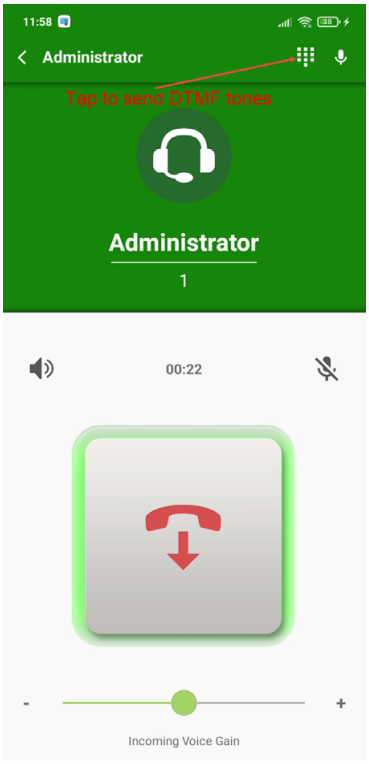


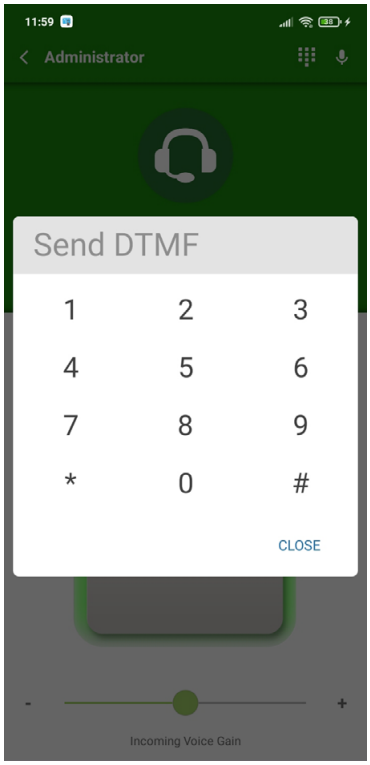


10.3 Sending DTMF Tones in a Call

While in the call, you can send DTMF tones for some purposes.

- Tap the **Keybord** icon ( ) on the top right of the screen.
- In the **Send DTMF** window that pops up, tap the digits that you want to send as DTMF tones.



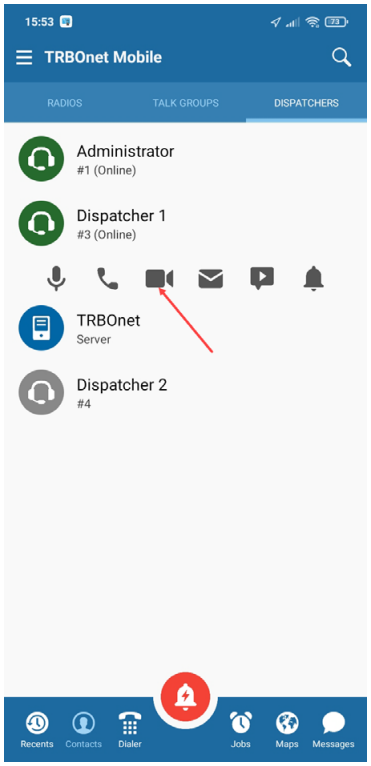


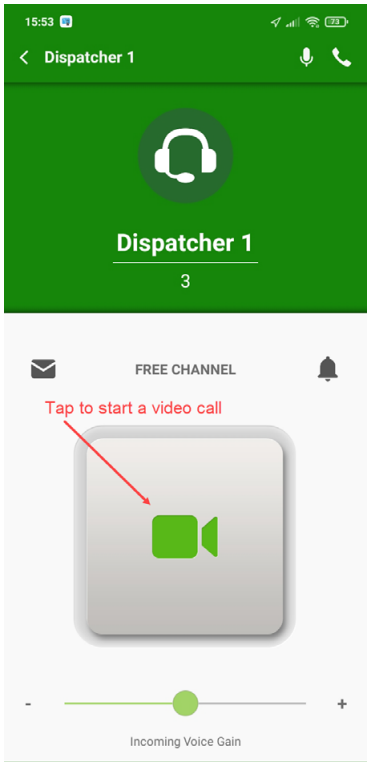
11 Video Calls

This section describes how to make and receive video calls on the Mobile Client app.

11.1 Making a Video Call

- Tap **RADIOS** or **DISPATCHERS**. Then tap the preferred user or operator, respectively. On the submenu that appears, tap the camera icon. In the contact box that appears tap the camera button.



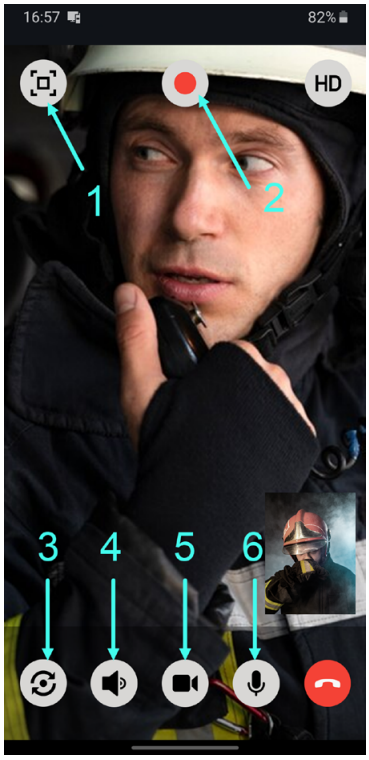


Once the call is answered, you will see the video call screen.

11.2 Handling a Video Call

While on a video call, you can use the following buttons:

1. Maximize to full screen/restore
2. Record video call
3. Switch between the cameras
4. Mute/Unmute
5. Turn on/off the camera
6. Turn on/off the microphone



Note: Once a video call is recorded, it is stored in the **Videos** folder of your device's internal storage. You can also play it back in the **Gallery** app.

11.2.1 Adjusting Video Quality

Your video stream is displayed in a small box in the bottom-right corner.



- Tap this box to view your stream in full screen.
- Tap the button in the top-right corner to select appropriate video quality for streaming (HD/SD/LD).

Notes: The default video quality is selected in Settings > Audio & Video > **Video Call Quality**

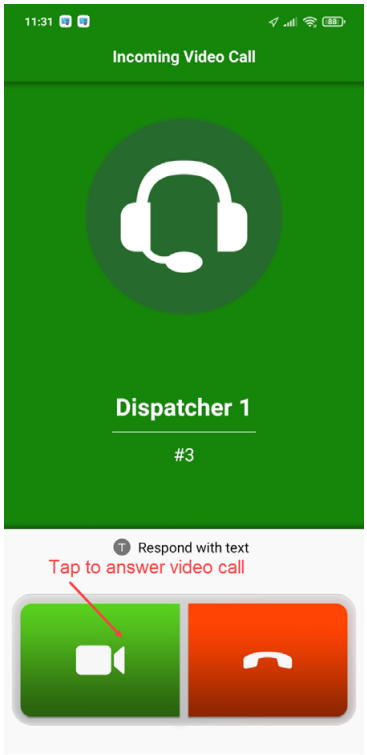
For how to select video call quality on Android smartphones, see comparative test results at UL Solutions. Based on the 3DMark Wild Life test score, select video quality on a smartphone as follows:

3DMark Wild Life score	Video quality
1500+	LD (144p)
2500+	SD (480p)
4000+	HD (720p)

11.3 Receiving a Video Call

When you receive a video call, the Incoming Video Call screen appears. To answer the call, tap the green Accept button.

To decline the call, tap either **Respond with text** or the red Decline button. A text notification about the rejected call will be automatically delivered to the operator.



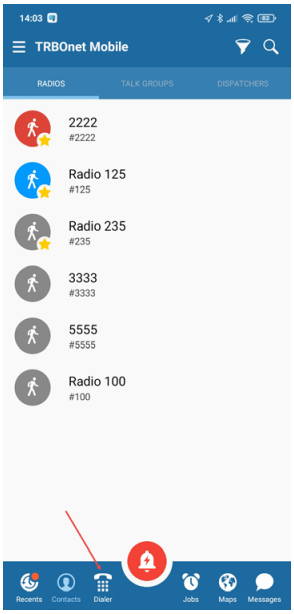
12 SIP Dialer

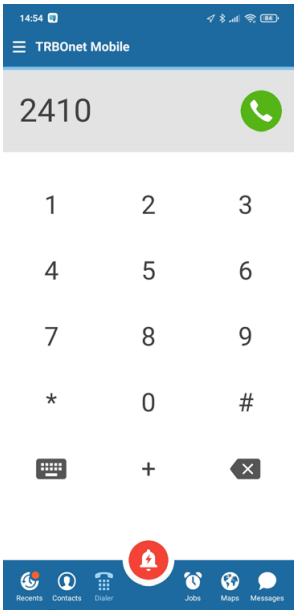
This section describes how to make phone calls to registered SIP phone users by using the built-in SIP dialer. In addition, if TRBOnet Server is configured to use a SIP-to-PSTN gateway, you can make calls to normal phone numbers.

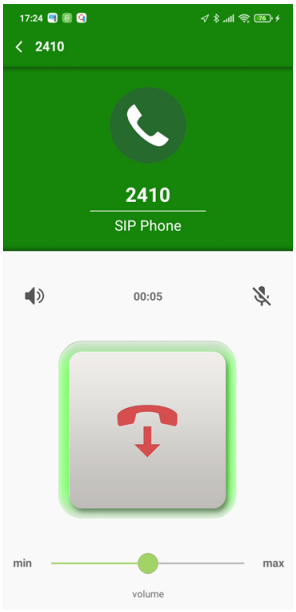
12.1 Dialing SIP numbers

- Tap the **Dialer** icon (

) in the Navigation bar.
- In the SIP Dialer screen that opens, enter the phone number and tap the Call button ().





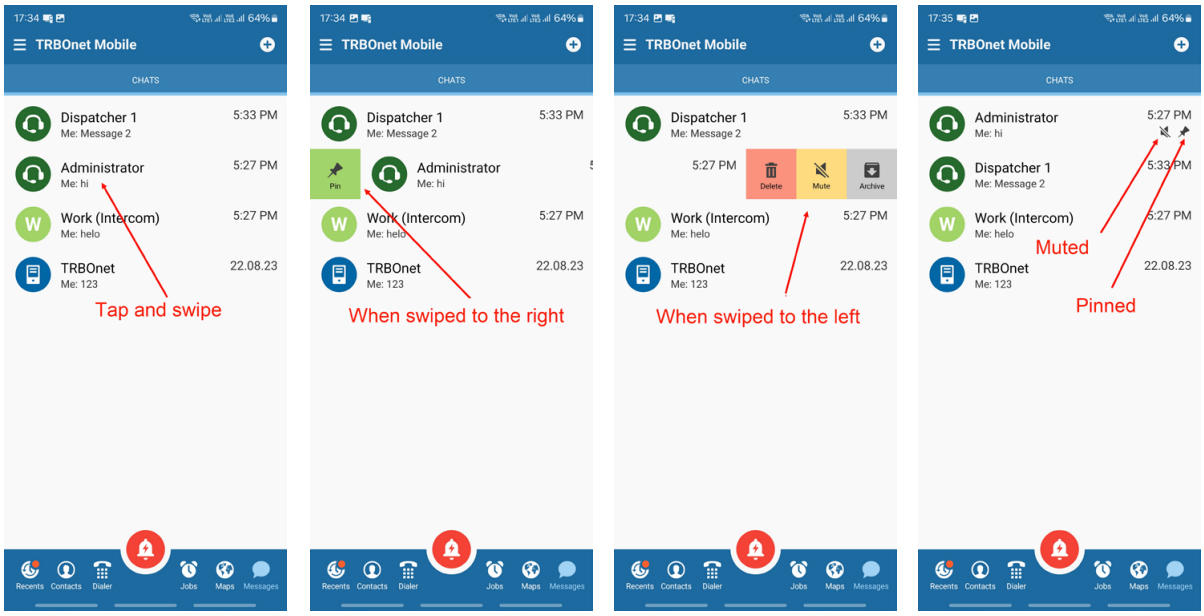


13 Chats

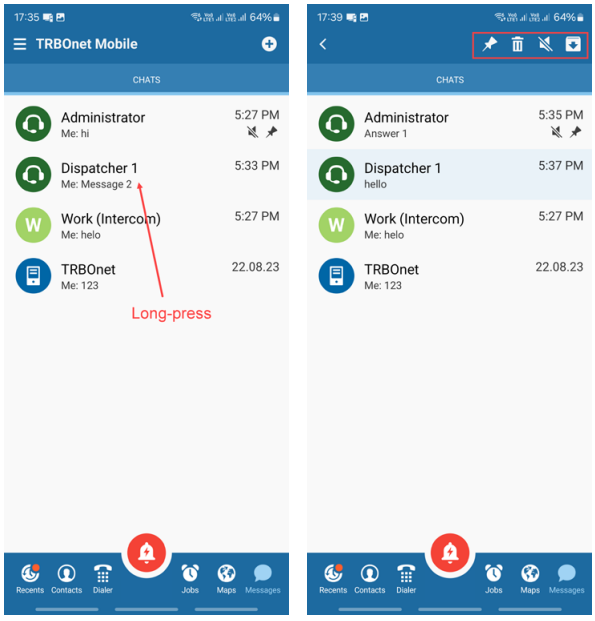
To enter the list of chats, tap the **Messages** icon in the Navigation bar (see section 7.4, Navigation Bar).

In the list of chats, tap a chat and swipe it to the left/right. When you swipe to the right, the **Pin**/**Unpin** button appears on the left of the chat. When you swipe to the left, the **Delete**, **Mute**/**Unmute**, and **Archive** buttons appear on the right of the chat.

Note that when a chat is pinned and/or muted, the corresponding icons appear on the right side of the chat.

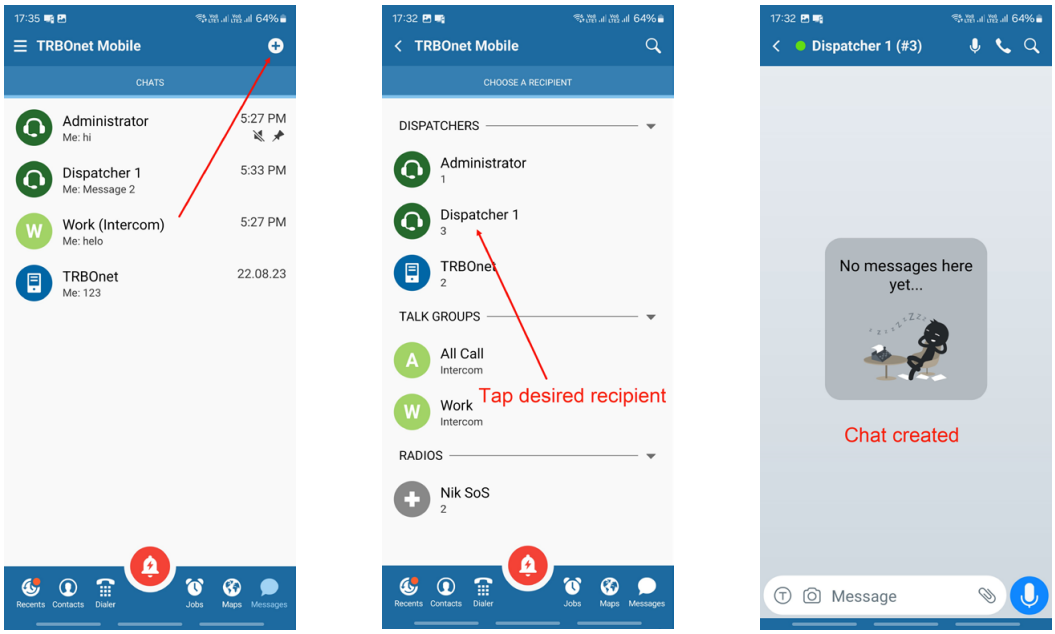


Or, you can also long-press a chat, and tap the corresponding icons on top right of the screen.



13.1 Creating Chats

To create a chat, tap the plus icon on top right of the screen. In the list of available recipients that appears, tap the desired one.



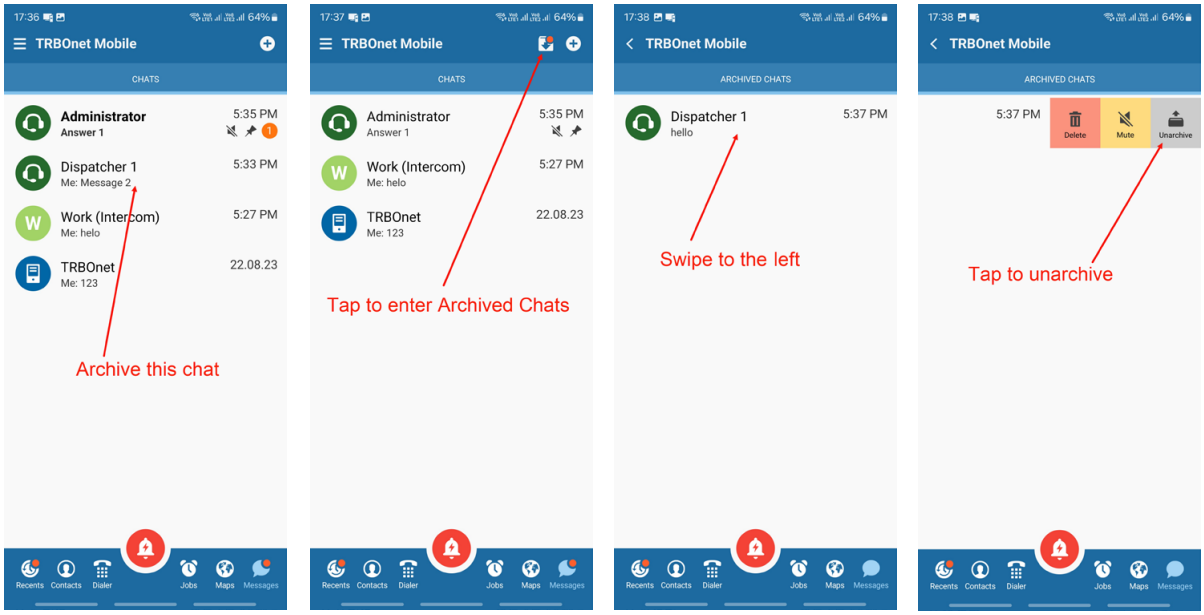
You can have a chat with any radio user or TRBOnet Mobile Client user from the **RADIOS** page, with a talk group from the **TALK GROUPS** page, and with an operator from the **DISPATCHERS** page.

13.2 Archived Chats

Once you have archived a chat, it will disappear from the Chats list and appear in the Archived Chats list.

To enter the list of archived chats, tap the icon with a downward arrow on top right of the screen. Note that unread messages in the archived chats are indicated with a red dot on this icon.

In the list of Archived Chats, tap a chat and swipe it to the left. To unarchive the chat, tap the **Unarchive** icon. You can also delete it by tapping the **Delete** icon.



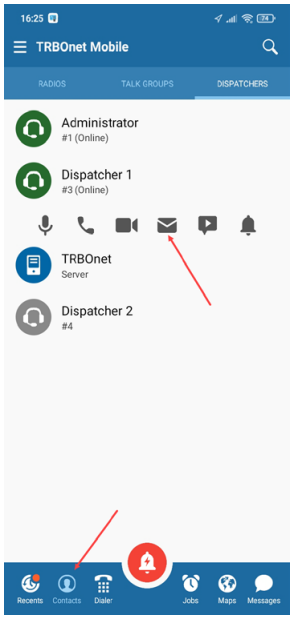
13.3 Sending Messages

This section describes how to enter a chat, send messages, and reply to messages in the chat.

Note: A text message can be typed in any language. The length of a text message is restricted to 400 characters. Messages that exceed the maximum allowed length will be truncated.

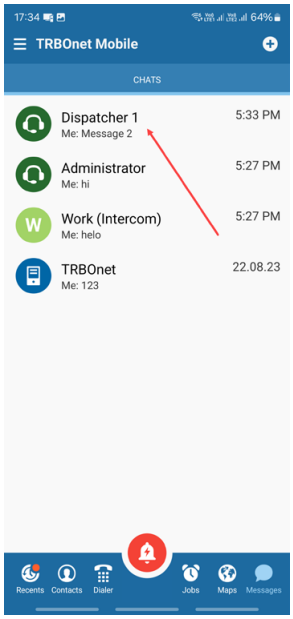
To enter a chat:

- While in the **Contacts** list, tap a contact, a talk group, or a dispatcher, and on the submenu that appears, tap the envelope icon.

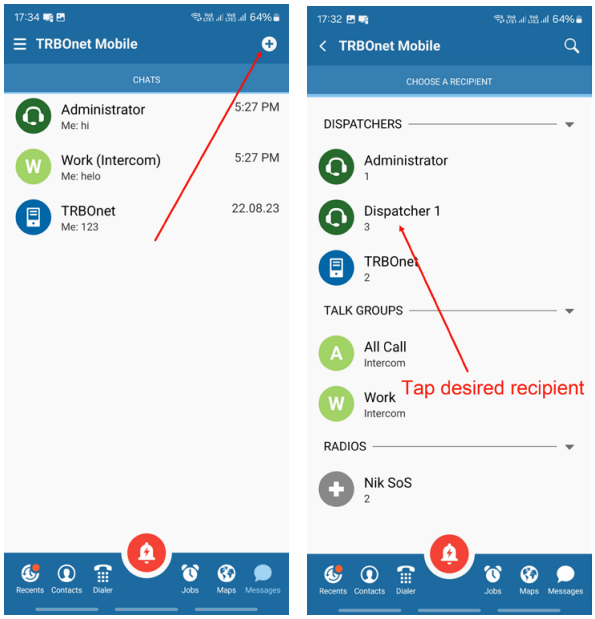


Or:

- Tap the **Messages** icon in the Navigation bar (see section 7.4, Navigation Bar). In the list of chats, tap a desired chat.

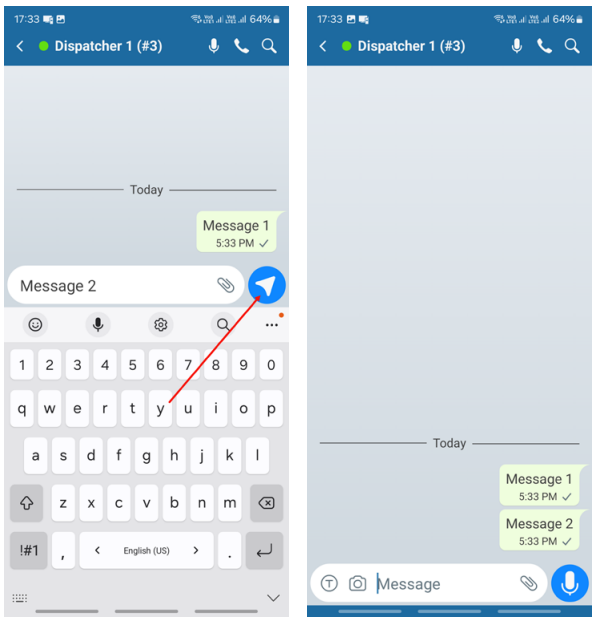


- Or, tap the plus icon on top right of the screen and, in the list of available recipients that appears, tap the desired one.



To send a message:

- Type your message in the edit box, then tap the **Send** button ( ).



Message statuses

The following statuses are supported:

- Sent
- Delivered
- Read
- Error

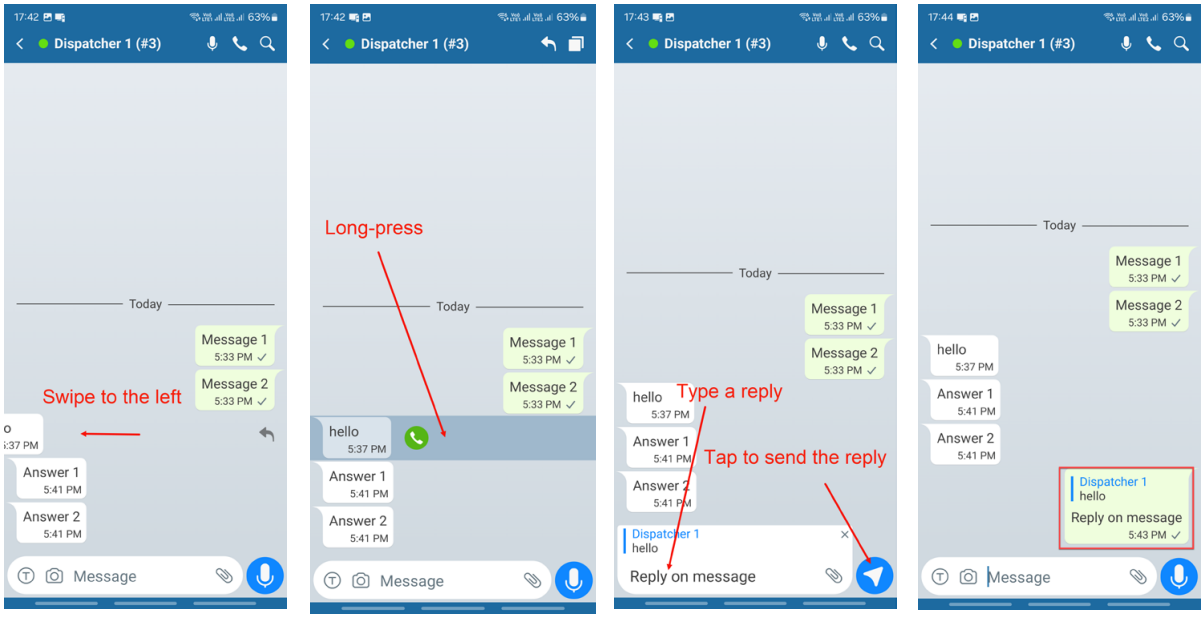
Note: You can also send a quick message by tapping the **T** icon on the left of the text box and selecting one of the predefined messages from the list (see section 13.3.1, Quick Messages). In addition, you can send a quick video message by tapping a camera icon on the left of the text box (see section 13.3.3, Quick Video Messages).

To reply to a message:

- Swipe the message to the left.
  Or:
  Long-press the message and tap the **Reply** icon ( ) on top right of the screen. You can also copy the message by tapping the **Copy** icon ( ).
- When the reply is activated, enter your message, and tap the **Send** button ( ) to send the reply.

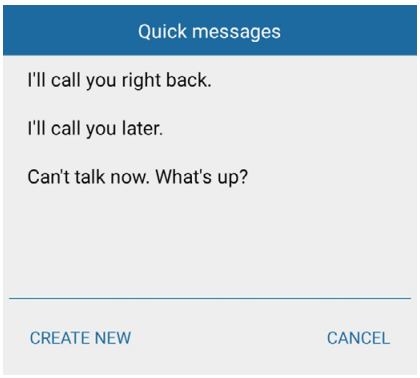
  As a result, the response will be displayed with a quote from the original message you replied to.

Note: You can also reply to a message with a full-duplex call. Just long-press the message and then tap the green Receiver icon that appears next to the message.



13.3.1 Quick Messages

To send a quick message, tap the **T** icon on the left of the text box and select one of the predefined messages from the list.



To create a new quick message, tap **Create New** and enter the new message.

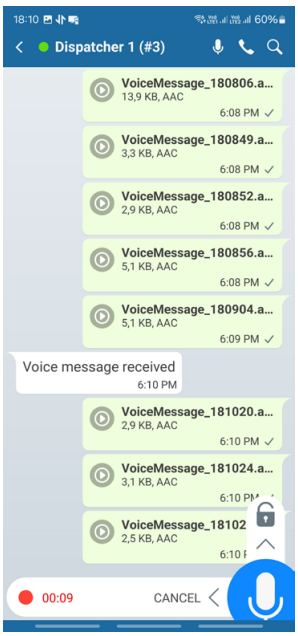
To remove a quick message, long-press it and confirm to delete.

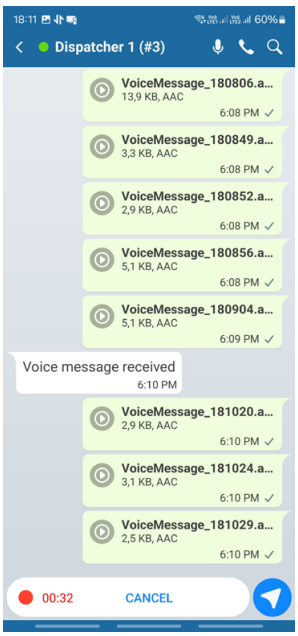
13.3.2 Quick Voice Messages

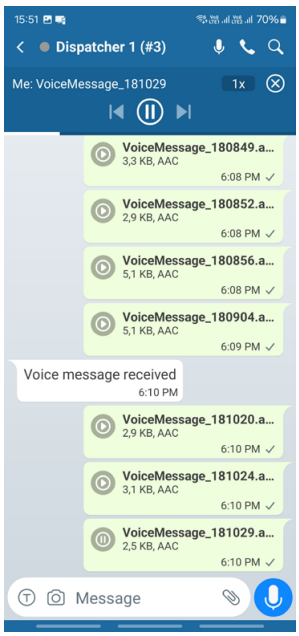
You can also send voice messages to your contacts by tapping and holding the mic icon on the right ( ). Once you release the mic icon, the recorded voice message will be sent to the recipient. To cancel sending the voice message, drag the held mic icon to the left.

Or just tap and swipe up the mic icon and speak. When finished speaking, tap the **Send** button ( ). To cancel sending the voice message, tap **Cancel** on the left of the **Send** button.

To listen to a voice message, tap the **Play** icon ( ) on the left of a message.



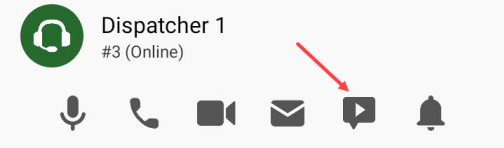




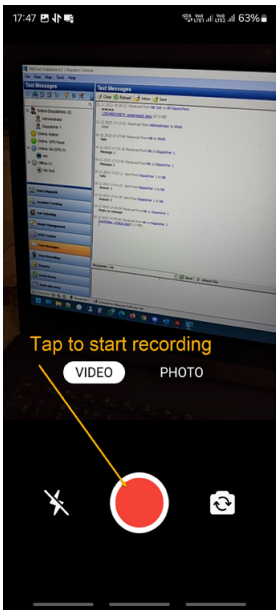
13.3.3 Quick Video Messages

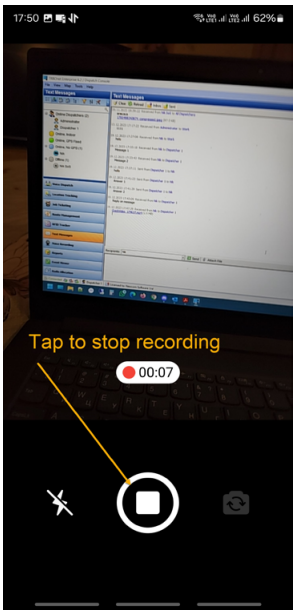
To send a quick video message, tap the camera icon on the left of the text box.

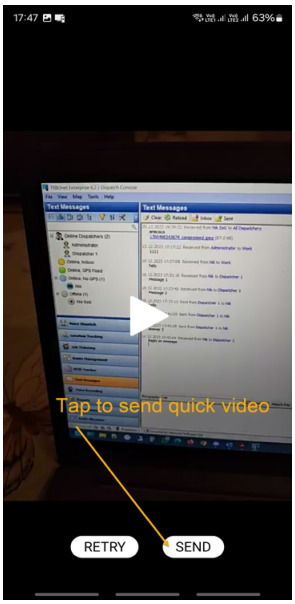
Note: You can also send a quick video message by tapping the player icon from the contact's menu.

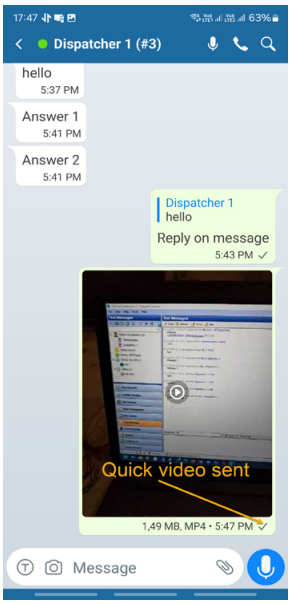












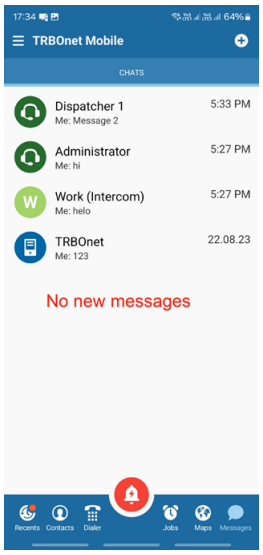
Note: A video message is limited to 2 MB, or 20 seconds in length.

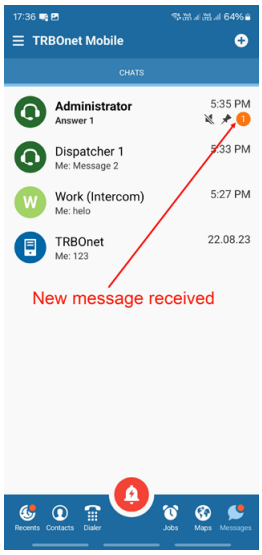
13.4 Receiving Messages

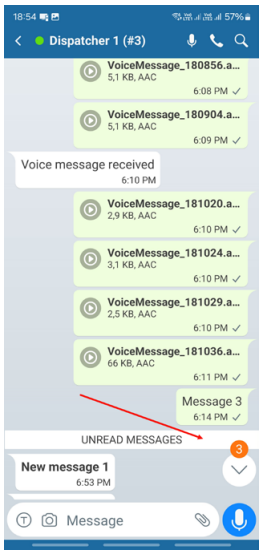
When you get an incoming message, you hear a sound notification. To check the incoming messages, tap the **Messages** icon in the Navigation bar.

Chats with unread messages are displayed in bold. In addition, the number of unread messages is displayed in an orange circle on the right of the chat's name.

When you enter a chat with unread messages, new messages appear under the Unread Messages line. In addition, the number of unread messages is displayed in an orange circle on the right of the Unread Messages line.



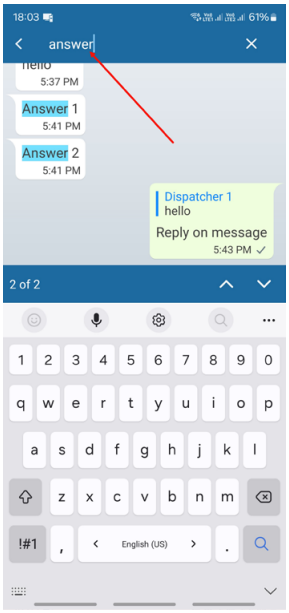


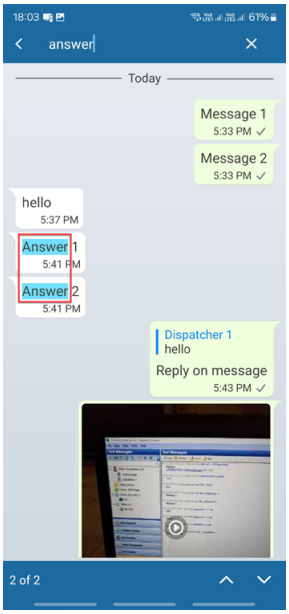


Searching for messages

While in a chat, you can search for messages. Just tap the magnifying glass button on the top right and enter the text you want to search for.







13.5 Attachments

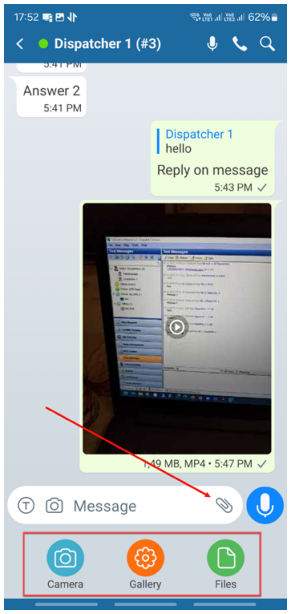
You can attach photos, voice and video messages, and files of any type to a TRBOnet user (Mobile Client user or Dispatcher). The audio and video attachments are displayed as thumbnails, with the original file size and its type shown under a thumbnail.

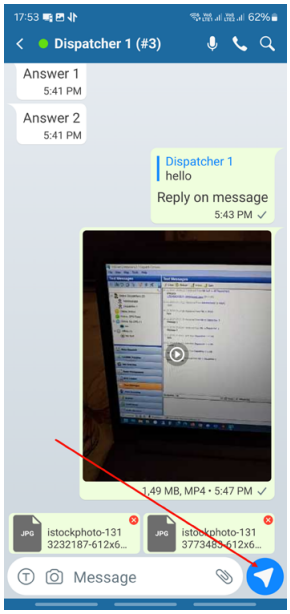
Note: A radio user cannot receive attachments. If you send an attachment without text, a radio user will receive an empty message.

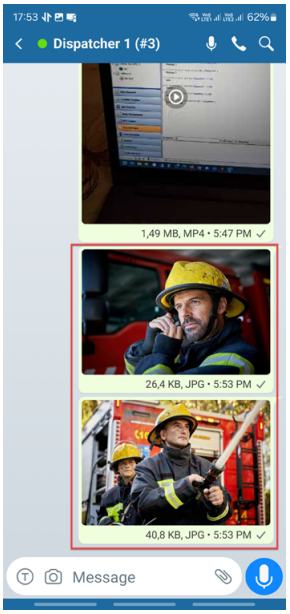
13.5.1 Sending Attachments

To attach a file to a message, tap the paperclip icon on the right ( ), and then choose from where (Camera, Gallery, or Files) to take the picture. Or just tap a camera icon on the left of the text box to attach a quick photo/video message.

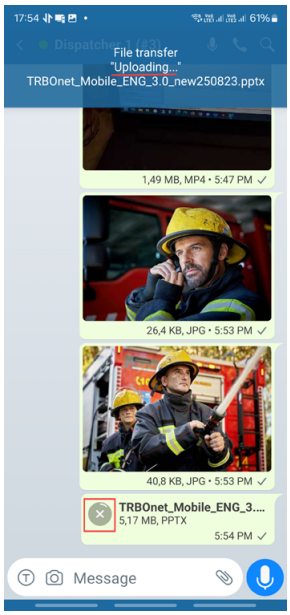
Note: You can specify how to compress and resize images in **Settings > Messages >** Image Quality/Image Size (see section 19, Settings).

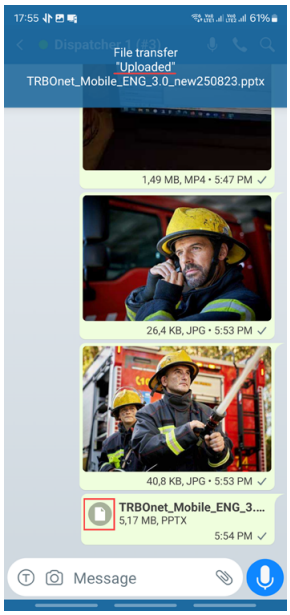


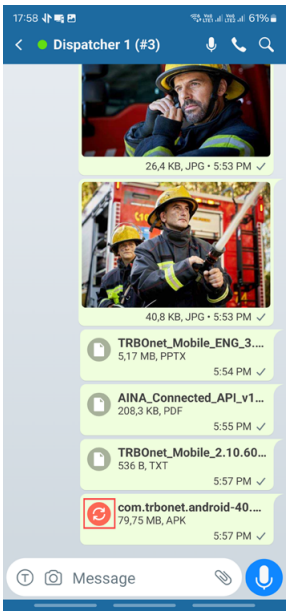




While the file is being uploaded to the server, the file transfer progress icon is shown next to the attachment link. Once the file is uploaded to the server, the icon will change to . If an error occurred during the upload process, the icon will change to , indicating to tap it to repeat the upload process.





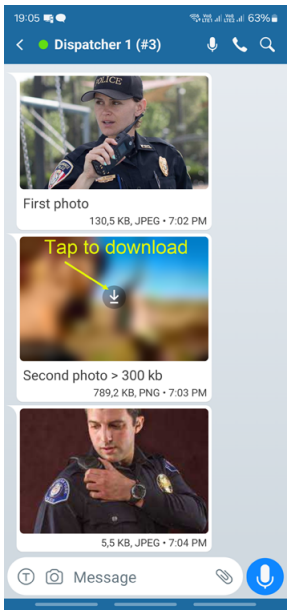


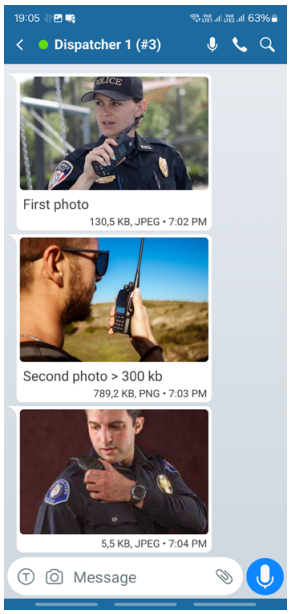
13.5.2 Receiving Attachments

When a message with attachments is received, you can open the attachment in the corresponding app or just save it on the device's storage (long-press a message, then **Save**).

Quick voice and video messages are automatically downloaded as well as the files which size is less than 300 KB. You can disable automatic download of small files in Settings (see Settings > Messages > Media auto-download).

Large files are shown with the Download icon ( ). Once you tap the Download icon, you will see the download progress icon ( ) and then if the download succeeds, you will see the file icon ( ). If an error occurred during the download process, the icon will change to , indicating to tap it to repeat the download process.

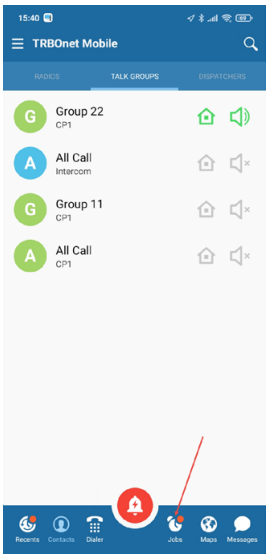


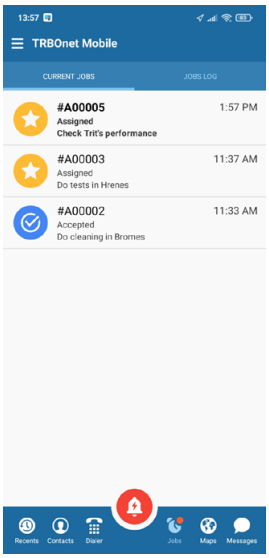




14 Jobs

A job is a task that you can receive from an operator of the Dispatch Console. To check if you have new jobs, tap the **Jobs** icon in the Navigation bar.





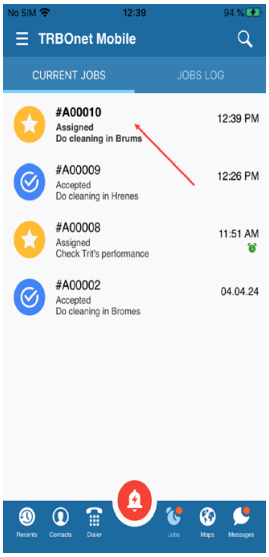
New jobs are added to the **Current Jobs** tab with the **Assigned** status. Unopened jobs are displayed in bold.

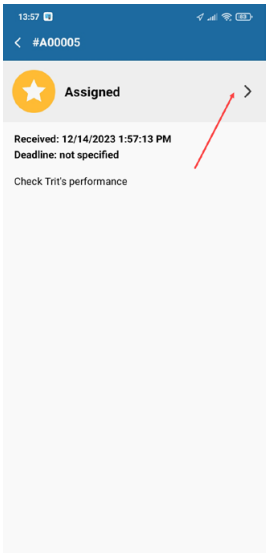
14.1 Current Jobs

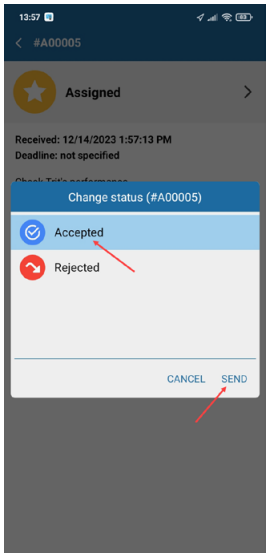
In the **Current Jobs** tab, you can perform the full range of operations with jobs.

To accept a job:

- Tap a job in the **Current Jobs** tab.
- Tap the status bar of the job.
- In the **Change status** pop-up box, tap **Accepted** and then tap **Send**.







As a result, the job changes its status to **Accepted**.

To reject a job:

- Tap a job in the **Current Jobs** tab.
- Tap the status bar of the job.
- In the **Change status** pop-up box, tap **Rejected** and then tap **Send**.

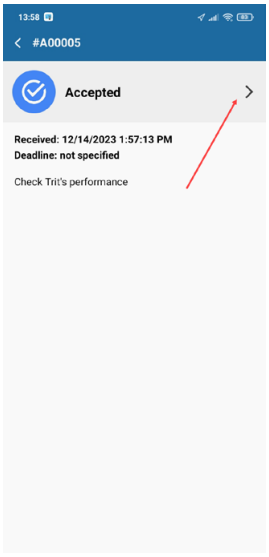
The rejected job is automatically moved to the **Jobs Log** tab. It remains in this tab until you delete it or until the dispatcher reassigns it to you or to someone else.

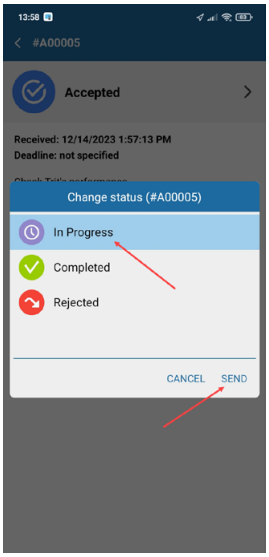
A reassigned job disappears from the **Jobs Log** tab. If reassigned to you, the job appears on the **Current Jobs** tab with the **Assigned** status.

To process a job:

- Tap a job in the **Current Jobs** tab.
- Tap the status bar of the job.
- In the **Change status** pop-up box, tap **In Progress** and then tap **Send**.

As a result, the job will change its status to **In Progress**.

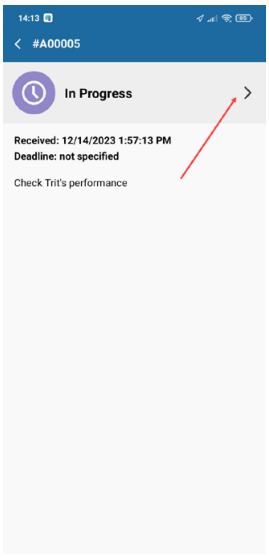


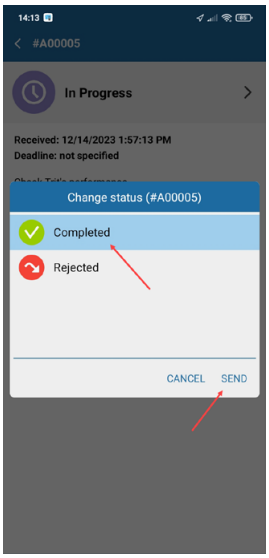


To complete a job:

- Tap a job in the **Current Jobs** tab.
- Tap the status bar of the job.
- In the **Change status** pop-up box, tap **Completed** and then tap **Send**.

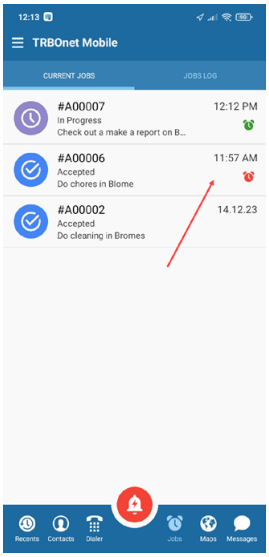
The completed job will be moved to the **Jobs Log** tab.

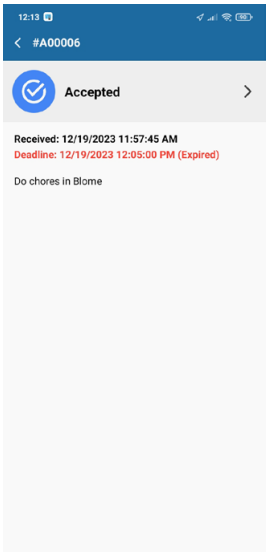




14.1.1 Deadlines

If a deadline is specified for a job, you will see an alarm clock icon on the right of the job record in the list of jobs. If the deadline is not reached, the clock icon will be displayed in green. If the deadline has expired, the clock icon will be displayed in red.



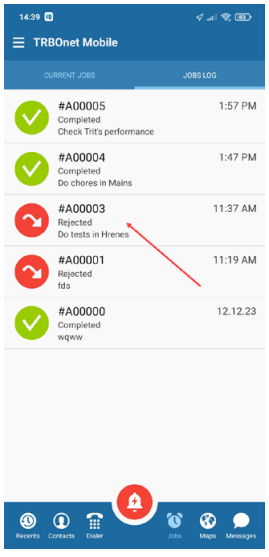


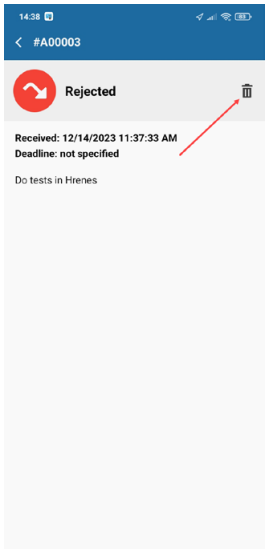
14.2 Jobs Log

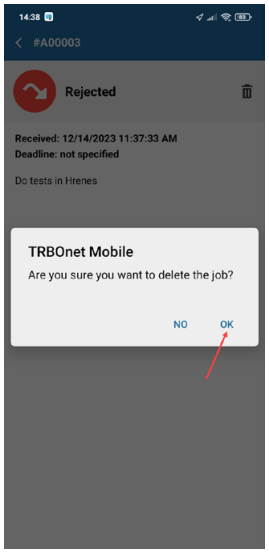
The **Jobs Log** tab is automatically populated with completed and rejected jobs.

To delete a job:

- Tap a completed or rejected job in the **Jobs Log** tab.
- Tap the **Recycle Bin** icon in the upper-right corner.
- In the confirmation pop-up, tap **OK**.

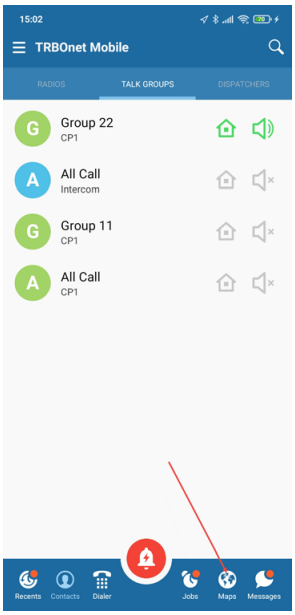


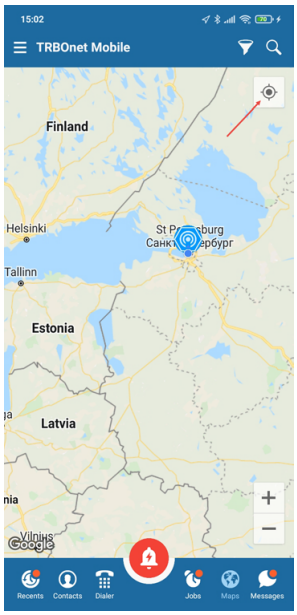


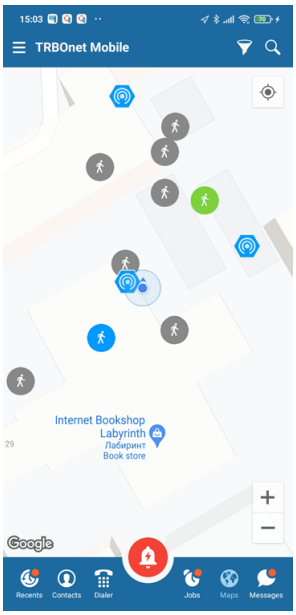


15 Map

On the map, you can see the locations of all users currently available on the **RADIOS** page. To open the map, tap the **Maps** icon in the Navigation bar.







The map displays the last selected area. Tap the **Pan** button. All located users appear on the map with icons. The color of the icon indicates the network status of the user:

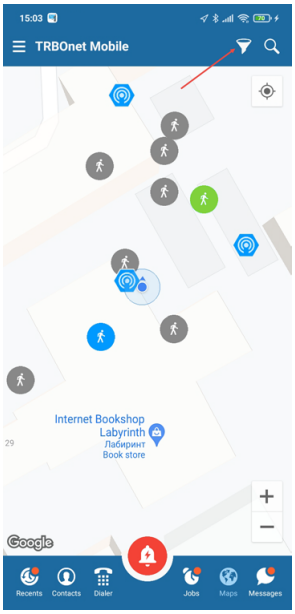
- **Gray**: Offline
- **Green**: Online, GPS enabled
- **Blue**: Online, GPS disabled
- **Red**: Online, in emergency

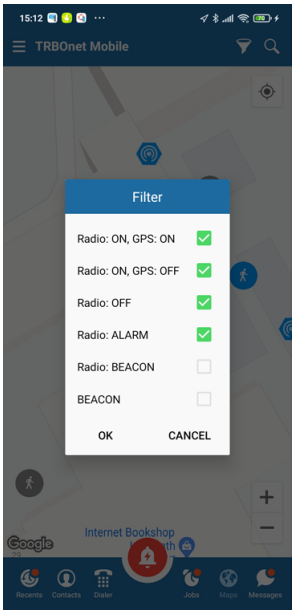
Note: Offline users and users with disabled GPS are displayed on the map with their last known coordinates.

To learn the name of a user indicated by the icon, tap that icon on the map. The user's name appears next to the icon.

15.1 Filtering Radios on Map

By default, the map displays all users available on the **RADIOS** page. To display users with a particular network status, tap the **Filter** button and select one or several options required. For example, you may select to display only radios that are online and have fixed GPS signal. Tap **OK** to apply the filter.



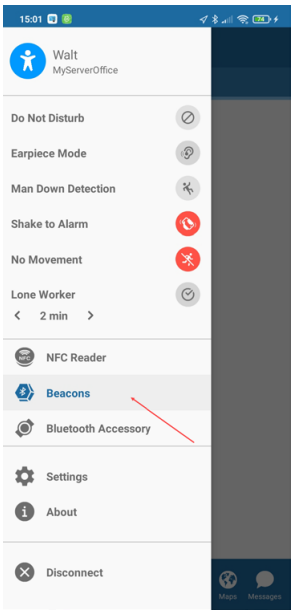


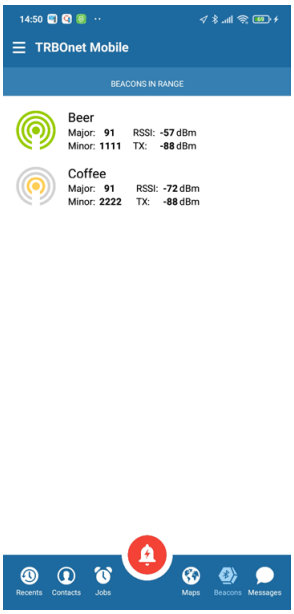
16 Beacons

On the **Beacons in Range** page, you see a list of the beacons in the coverage zone of which the smartphone is located.

- Tap the menu button ( ) on the left of the title bar, and on the menu that opens tap **Beacons**.

Note: The **Beacons** menu item is available only if the **Use Indoor location** option is enabled in the Mobile Client profile associated with the Mobile Client account (see sections 6.2.1, Adding TRBOnet Mobile and 6.2.2, Adding Mobile Client Profile).





16.1 Beacon Info

Information on a beacon includes its Major and Minor IDs, RSSI level, and Transmit level.

17 NFC tags

NFC tags can be placed on a map like normal iBeacons. When a mobile device detects a tag registered with TRBOnet, it will show on this tag.

NFC tag IDs must have the following format: NSI#[major ID]:[minor ID]

An NFC tag can be positioned on the map as an iBeacon with these major and minor IDs.

The NFC mode must be activated, the application must run in the foreground and the device must be unlocked.

18 Bluetooth Accessory

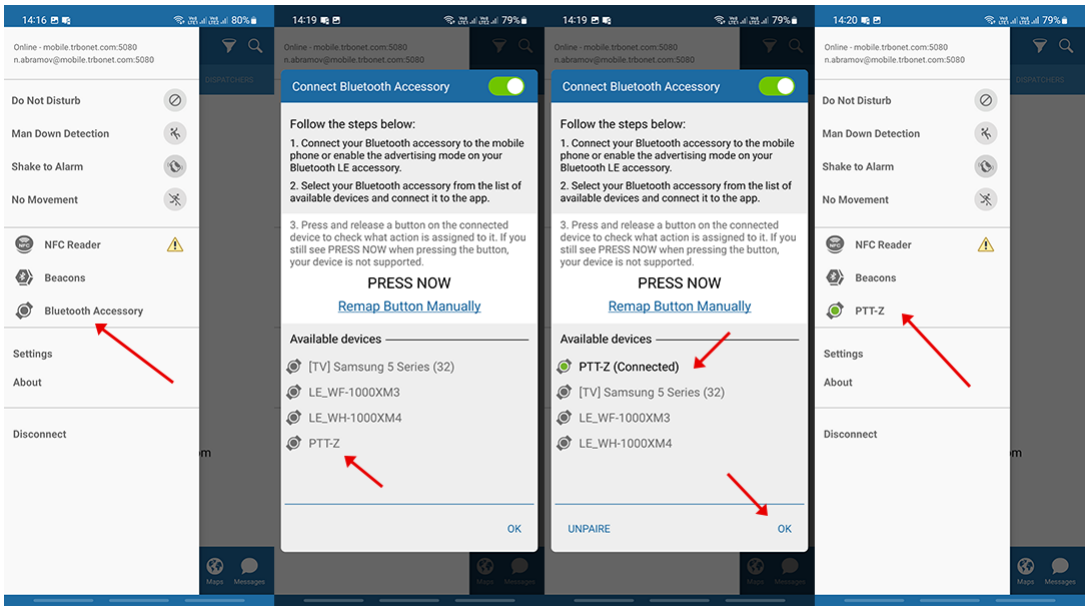
You can also use a Bluetooth accessory connected to the smartphone.

The Bluetooth Connection Manager is used for connecting Bluetooth accessories, maintaining a connection, and assigning actions to Bluetooth buttons.

18.1 Connecting a Bluetooth accessory

Here is how to connect a Bluetooth accessory, using the PTT-Z button as an example:

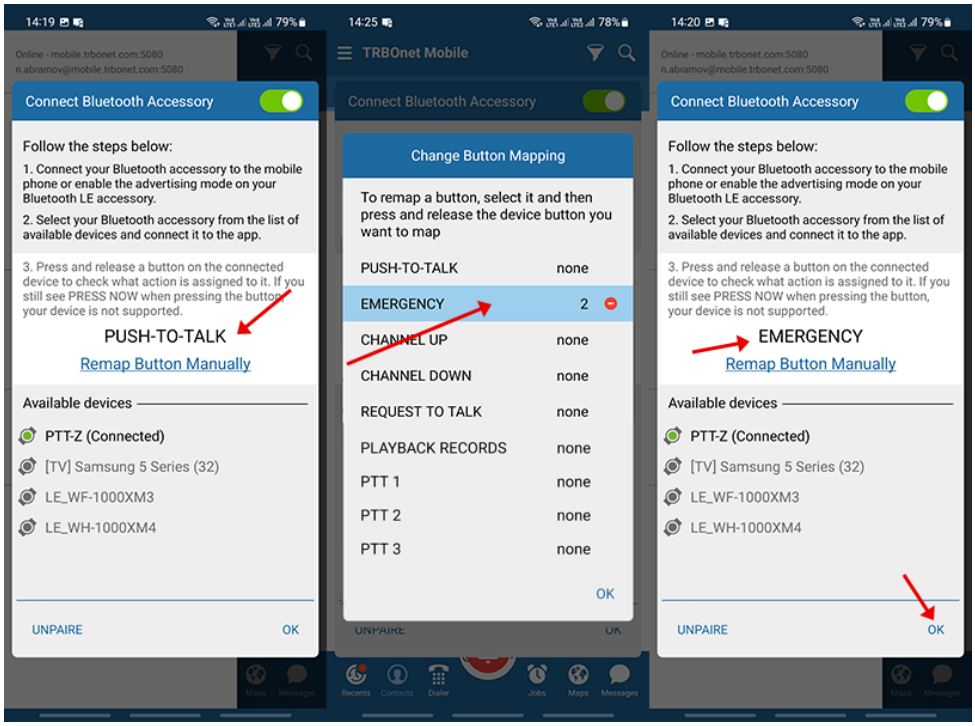
- Make sure that Bluetooth and location are enabled on the smartphone device.
- Tap the menu button ( ) on the left of the title bar, and on the main menu that opens, tap **Bluetooth Accessory**.
  As a result, the Bluetooth Connection Manager opens.
- Press and hold the button on the PTT-Z device to enable Pairing mode.
- In the list of available devices, tap PTT-Z.
- Once the Connected status appears, tap **OK**.
  The connected device and its status will be displayed in the app's main menu.



18.2 Remapping PTT Button

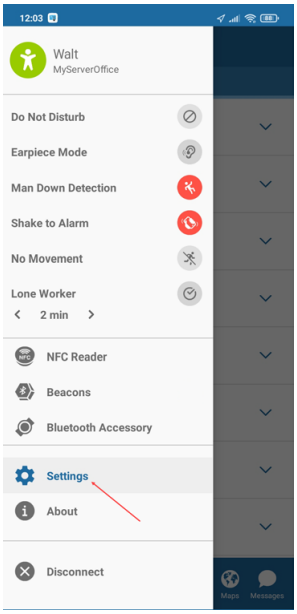
You can also remap the PTT button of a connected Bluetooth accessory to a different action.

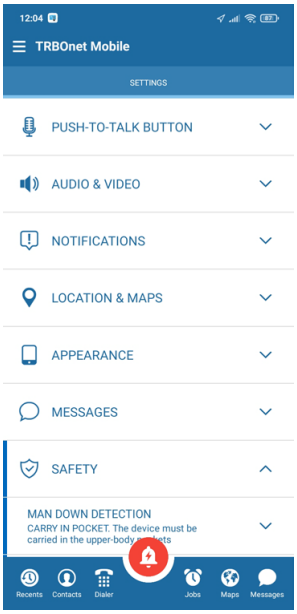
- Tap the **Remap Button Manually** link and in the pop-up that opens assign another action to the button.
- Check the button assignment and tap **OK**.



19 Settings

To configure your TRBOnet Mobile Client application, tap the **Menu** button and then tap **Settings**. Scroll the **Settings** page and tap the option that you need to configure. Tap the **Back** button on the **Settings** page to save the settings and leave the page. The updated settings apply immediately.

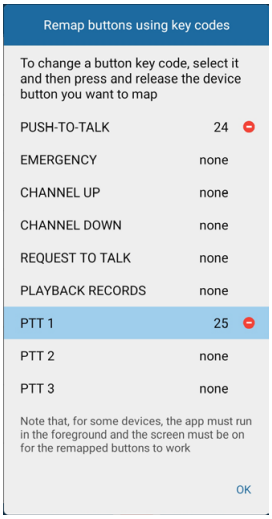




Below is the list of available settings:

19.1 Push-To-Talk Button

- **Push-To-Talk Button Action**
  Choose one of the following options:
  - **Hold to Talk**
    Choose this option so that you press the PTT button and hold it down until you finish talking.
  - **Toggle**
    Choose this option so that you press the PTT button once to start talking and press it again to finish talking.
- **Remap Buttons Using Key Codes**
  This option is used to remap the hardware keys of your mobile device, wired accessories or input devices, if any (PTT, Emergency, Channel selector, Request to talk, Playback records, PTT 1-3, if available).
  Tap this link and follow the instructions.



- **Connect Bluetooth Accessory**
  Tap this link and follow the instructions to connect a Bluetooth device. See also section 18, Bluetooth Accessory.
- **Use Volume Buttons as PTT**
  Select this option so that the volume keys (Up or Down) will be used as a PTT button on your mobile device.

  Note: If you select this option, the multimedia volume in a PTT box will be automatically set to a fixed value.
- **Use wired headset buttons as PTT**
  Select this option so that the buttons of the wired headset will be used as follows: The Answer/End button will be used to start/stop transmission, and the Forward/Backward button will be used to change the home channel.

19.2 Audio & Video

- **Voice Recording Size Limit**
  Select the maximum memory size that will be used to store voice recordings.
- **Playback Options**
  Choose one of the following options for recordings playback:
  - **Finish Current Recording**
    Playback continues until the end of the current recording, even if the selected playback duration has expired.
  - **Stop at Time Limit**
    Playback stops immediately when the selected playback duration has expired, even if the current recording is not finished.

- **Playback Duration**
  Select the duration during which the previous recording will be played back.
- **Video Call Quality**
  Select the video quality for video calls. There are three video quality options: HD/High quality (720p), SD/Medium quality (480p), and LD/Low quality (144p).
- **Filters**
  Select the filters to be applied to the audio stream (AEC, VAD, etc.).
- **Ringtones**
  Select ringtones for duplex Audio calls, duplex Video calls and RTTs.
- **QoS**
  Select this option to enable the Quality of Service (QoS) feature that will prevent traffic congestion in the network.
- **Talk Permit Tone**
  Select this option so that a tone will be played when you tap the PTT button to start speaking.
- **Incoming Talk Tone**
  Select this option so that a tone will be played when you receive an incoming call.
- **Outgoing Transmission End Tone**
  Select this option so that a noise tone will be played when you release the PTT button to stop speaking.
- **Connection Lost Tone**
  Select this option so that a sound will be played when a connection is lost.
- **Text-to-Speech of the changed Home Channel name**
  Select this option so that the home channel name will be announced by voice every time the home channel is changed.
- **Bluetooth Headset**
  Select this option if you will use a Bluetooth headset (speaker and microphone).

19.3 Notifications

- **App System Push**
  - **Show Connection Parameters**
    Select this option so that the connection parameters such as Login, Server IP and port will be displayed on the app's push notification.
  - **Show Disconnect Button**
    Select this option so that the Disconnect button will be displayed on the app's push notification.

- **Flash Blinking**
  Select this option to enable flash blinking when an Alarm or Call Alert arrive.
- **Vibrate**
  Select this option to enable vibration for notifications, PTT button, etc.
- **Silent Mode**
  Select this option to disable all sound notifications.
- **Job Status Confirmation**
  Select this option to display a confirmation box when the user changes a job's status.
- **Information Toasts**
  Select this option to display information toasts in the app.

19.4 Location & Maps

- **MAP TYPE**
  Choose one the map types below:
  - **Hybrid**
    A combination of satellite and cartographic imagery.
  - **Satellite**
    Photos taken from space.
  - **Terrain**
    A physical map based on terrain information.
  - **Roadmap**
    The road map view.

19.5 Appearance

- **Long-Press on Contact**
  - **PTT Box**
    Choose this item to open the PTT Box when long-pressing a contact.
  - **Message Box**
    Choose this item to open the text message box when long-pressing a contact.
- **Auto-Close PTT Box Interval**
  Choose the time interval for closing the PTT box.
- **Auto-Close PTT Box Conditions**
  Choose the conditions for auto-closing the PTT box.
  - **Always**
    Choose this option so that the PTT box will be auto-closed regardless of the device state.

- **In the background**
  Choose this option so that the PTT box will be auto-closed only when the screen is locked or the app is minimized.

- **App Theme**
  Choose one of the options:
  - **System default**
    Choose this option so that the theme will be taken from the system.
  - **Light**
    Choose this option to use a light theme for the app.
  - **Dark**
    Choose this option to use a dark theme for the app.
- **Language**
  Tap to choose the application language.
- **Keep Screen ON**
  Select this option to prevent the screen from falling asleep. If selected, this setting increases the battery usage.
- **Wake on Incoming PTT Call**
  Select this option to turn the screen on when a PTT call arrives.
- **Wake on Emergency Call or Request to Talk**
  Select this option to turn the screen on when a Request to Talk or Emergency Call arrives.
- **Show on Lock Screen**
  Select this option to show the app on the lock screen.
- **Hide System Names**
  Select this option so that system information is not displayed below a group name in the Talk Groups page.
- **Pin home and active channels**
  Select this option so that the home group and active channels will be shown on top of the list of talk groups.

19.6 Messages

- **Delete History**
  Choose when to delete messages and attachments from your device.
- **Image Quality**
  Choose the quality of the images that will be attached to messages.
- **Image Size**
  Choose the maximum size of the images that will be attached to messages.
- **Video size**
  Choose the maximum size of the video that can be attached to messages.

- **Media auto-download**
  Select this option to auto-download files which size is less than 300 KB. Note that quick audio/video messages will always be auto-downloaded.

19.7 Safety

Note: This section appears if the corresponding options are selected in the associated Mobile Client Profile (see section 6.2.2, Adding Mobile Client Profile, Alarms tab).

- **Man Down Detection**
  These are the settings for Man Down Detection when the device is carried in a pocket.
  - **Vertically oriented**
    Choose this option when the device is oriented vertically in the pocket.
  - **Horizontally oriented**
    Choose this option when the device is oriented horizontally in the pocket.
  - **Orientation doesn't matter**
    Choose this option when the device may be oriented either vertically or horizontally in the pocket. Note that choosing this option may result in a decreased sensitivity.
  - **Not used**
    Select this option the device is not carried in a pocket. Note that choosing this option may result in a decreased sensitivity.
- **Shake Detection**
  These are the sensitivity grades for Shake Detection. There are five sensitivity grades: Very-High, High, Medium, Low, and Very-Low.
- **Pre-Alarm Interval**
  Choose the time interval, in seconds, between triggering the event and sending the corresponding alarm.
- **Pre-Alarm Effects**
  Select one or all of the effects (Vibrate, Sound, and Flash Blinking) that will take place when the corresponding alarm event is triggered on the device.
- **Man Down Automatic Cancellation**
  Select this option to automatically cancel a Man-Down alarm once the device is rotated back to its normal position.

19.8 Power Saving

- **Position Accuracy**
  Choose one of the available location modes:

- **High accuracy**
  GPS, Wi-Fi, and mobile networks are used to estimate your location.
- **Power saving**
  Wi-Fi, and mobile networks are used to estimate your location.
- **No location and GPS**
  Location detection is disabled.

- **Background Mode**
  Choose one of the modes for running the app in the background:
  - **Full-time work**
    The service will work constantly until you manually disconnect it.
  - **Stops when closed in running apps list**
    The service will be stopped when you close the app from the Running Apps list.
  - **Stops when minimized**
    The service will be stopped when you minimize the app.
- **Screen brightness**
  Select this option to decrease the screen brightness to a pre-defined value.

19.9 Configuration

- **Generate QR Code with Settings**
  Tap this link and in the box that pops up, tap **Print** to print this QR code. You can also save the QR code on your device.
- **Scan QR Code with Settings**
  Tap this link and point the camera at the QR code and wait for the QR code to scan. As a result, the corresponding settings will be applied to the app.
- **Save Configuration File**
  Tap this link to save current configuration to a file.
- **Load Settings from Configuration File**
  Tap this link to load settings from a configuration file. Navigate to the desired configuration file and tap the file.

19.10 Logs

- **Incoming messages**
  Select this option to include incoming messages in the log file.
- **Outgoing messages**
  Select this option to include outgoing messages in the log file.
- **System info messages**
  Select this option to include Info messages in the log file.

- **Error messages**
  Select this option to include received error messages in the log file.
- **Send Logs**
  Tap this link to send the log file to TRBOnet Server.