



TASSTA iRodon

User's Guide

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Introduction to iRodon

iRodon is a TASSTA application running on touchscreen tablets powered by iPadOS. It works over Wi-Fi or any mobile network (such as 3G and LTE) while providing users with maximum connectivity at the lowest price. VoIP technology implemented in iRodon ensures that users can connect and communicate with each other from every corner of the world. In addition to Wi-Fi and 3G, iRodon is designed for communicating under poor conditions and being able to retain acceptable communication quality on GPRS and EDGE (2G) networks.

iRodon contains all the expected basic features such as group calls and individual calls, messaging and history, map and GPS positioning.

iRodon has a streamlined user interface and is flexible in use. It is specially designed for the tablet form factor.

iRodon uses TCP flow for signaling and data transfer, and UDP is used for voice and video data transfer. In the event of any limitation on UDP flow (for example, enforced by the network provider), iRodon can wrap the data in TCP.

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Getting around in iRodon

To use iRodon, you need to log into the TASSTA network with valid credentials of a subscribed user account.

On the first run, in addition to the user name and password you also need to specify where you are connecting to. For that, click the gear icon in the top right corner. On the Settings screen, configure the following:

- User name
- Password
- Server domain name (or IP address)
- Server port

Contact your administrator for this information. Alternatively, you can log in by scanning a QR code if it is provided to you. For more details about login sessions, see <u>Logging in and out</u>.

The iRodon UI is made up of the following areas:

- The left pane contains the user and group lists and has the Push to Talk button at the bottom. See Access to people in your TASSTA network for details.
- The right pane is multi-functional and can show a variety of views, depending on which feature you
 are working with. Initially, it shows the home screen with a customizable set of feature tiles.
 Notable controls in the right pane:
 - In the top right corner are the Add shortcut and Profile buttons. The first one adds a feature shortcut tile to your home screen, and the second one opens a configuration editor for your user profile.



• In the bottom right corner is the Emergency button (see Emergency calls for details).



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Logging in and out

Tap the launcher icon to start iRodon. Type your user name and password for the TASSTA network and press the **Connect** button to log in to the TASSTA server.

To make iRodon log in automatically, specify the **User name** and **Password** options and enable the **Autologin** option in the <u>application settings</u>.

To log out, tap the Profile button in the top right corner and in the Profile dialog tap **Logout**. Alternatively, tap the the **Logout** item on the <u>home screen</u>.

Connection security details

All TASSTA applications use an encrypted connection that enables authentication, session management, and access control mechanisms. All data between clients and servers is exchanged through encrypted channels. This protects the connection from active eavesdropping and passive disclosure in the network traffic. It also prevents session fixation attacks during the authentication or authorization processes.

In order to manage access to enterprise networks, the TASSTA administrator has the ability to assign rights and permissions to any TASSTA user in T.Commander. Any TASSTA client must be configured with proper connection settings before attempting to log in.

All important connection settings in iRodon are contained in the Settings menu. For details about configuring them, see <u>Application settings</u>.

HTTPS

The iRodon client application uses the HTTPS protocol for communication with the server. This makes data exchange robust and secure.

Voice encryption

By default, all TASSTA communication traffic is encrypted with TLS using 256-bit AES-SHA. The client and the server authenticate using digital certificates.

Secure logout

To improve safety, iRodon provides an additional authentication mechanism on logout. This is controlled through T.Commander and can be enabled by the TASSTA network administrator. The feature forces the user to enter a specific password for logout.

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QR code-based authentication

QR code-based authentication can be useful in some operating conditions and has the additional advantage of applying preconfigured iRodon settings.

- 1. Tap the **QR Login** button on the login screen of the app. You will be prompted to scan a code with your camera in a few moments.
- 2. Focus the camera and scan the code. The app logs in and new settings are applied automatically.

Account switching

The instance of iRodon installed on your device can store authentication profiles for multiple TASSTA user accounts and <u>direct mode</u> accounts. You can set up multiple users and switch from one user to another between login sessions.

Selecting the user for login

On the login screen, you may want to change the user that you want to log in as. For that, tap **Settings** and then tap **Accounts** in the configuration settings editor. In the list that opens, tap the user you want and then tap the back arrow to return to the login screen.

Configuring users

To add, edit and delete user account profiles, you need to be logged out. When you are logged in, these tools are not available.

On the login screen, tap the gear icon to open the settings, and then tap **Accounts** in the configuration editor to open the account list. You can do the following:

• To add an account to the list, tap **Add** and select the connection mode for the account you are adding: **Server mode** or **WiFi direct mode**.

For a server mode account, specify the following:

- User name
- Password
- Server
- Port
- T.Lion server version

For a direct mode user, you only need to specify the name of the user and the number of that user's local mode group.

- To modify an existing account, long tap it in the list and then tap **Edit** to change the settings listed above.
- To delete an item from the account list, long tap it in the list and then tap Remove.

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NOTES:

- The **User name**, **Password**, **Server** and **Port** options outside the account list editor refer to the currently selected account. Modifying them applies the changes only to that account.
- The accounts you configure don't have to use the same port or even the same server.

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Home screen

The home screen is a way to get quick access to favorite iRodon features and options. It is the starting view in the right pane after you have logged in.

The home screen has the following tiles that are always present and cannot be hidden:

- Chats
 See Messaging
- Map
 See GPS location and tracking
- History
 See Voice recording and call history
- Logout Log out of the TASSTA network. See <u>Logging in and out</u>

In addition, tiles for the following features can be added to the home screen:

Shortcut	Details	
Bluetooth	Set up operation with connected Bluetooth devices in a dedicated view.	
Emergency	See Emergency calls.	
Features Status	View a summary of the features supported by the app and enabled for you by the administrator. The statuses are color-coded as follows:	
	• green – the feature is enabled for you and available	
	 red – the feature is disabled for you 	
	 split green/gray – the feature is enabled for you but unavailable on iRodon 	
	 split red/gray – the feature is disabled for you and unavailable on iRodon 	
Settings	See Application settings.	
Task Manager	See <u>Task management and control</u> .	
About	View general information about the app, including its version.	
Call request: urgent, normal or first-to-answer	See <u>Call requests</u> .	

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Shortcut	Details
Call shortcuts of various types	See <u>Call shortcuts</u> below.

Add features and actions as follows:

- 1. In the top right corner of the home screen, tap the icon.
- 2. On the screen that opens, select the options and features from the list by tapping their icons. The selected tiles will move to the home screen.
- 3. Tap **Done** to confirm.

To remove or rearrange items:

- 1. Long tap any the shortcut tiles.
- 2. Use the minus icons on items to remove them, drag the corners of items to change their size and drag arrow icons to move items about.
- 3. Tap **Done** to confirm.

NOTE:

The home screen offers tiles only for those features that are available to your user account.

Call shortcuts

You can add tiles that act as shortcuts for various types of call:

- Individual
- Direct
- Broadcast
- PTV
- Video

For details about the different types of calls, see Voice communication and Video communication.

The call participants that you select can be saved with the shortcuts that you create, so that you can instantly call the same people again without reselecting them. Alternatively, you can use such a tile to go into participant selection mode and then proceed to start your call.

A newly added unnamed call shortcut tile is not associated with any call participants. Tap a blank call shortcut tile to specify who you are calling; select the user or users you need, and then do one of the following:

- To start your call without saving it for later reuse, tap **Done** below. This starts the call.
- To save the call parameters for later reuse, tap **Save** below. You are prompted to specify a unique name for the call shortcut. Type a meaningful name and tap **OK**. This does not start the call.

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To start a call from a named call shortcut tile, tap that tile.

To clear the configuration of a named call shortcut, long tap its tile and tap **Update call parameters**. This turns it into a blank call shortcut.

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Access to people in your TASSTA network

In the TASSTA network, subscribers have associated user accounts, which are managed by TASSTA administrators. Interaction among users takes place individually or in channels, which are also managed by administrators. The terms channel and group are used interchangeably in the TASSTA framework most of the time.

Your primary tools for access to the users and groups in the TASSTA network are the *group list* and the *user list*, which are located in the left pane. Only one of these lists is shown at a time. You switch between them by tapping the **Groups** or **Users** tab at the top of the left pane. For convenience, sorting and filtering controls are provided. They are shared by both lists and can help you quickly locate the users and groups you need, especially in large networks.

NOTES:

- The terms *channel* and *group* are used interchangeably in the TASSTA framework most of the time.
- The precedence of results returned by the search filter is as follows: ID, Session, Name or Channel contains the search characters.

Group list

In this list, you can change your channel by tapping the channel you need. The channel you select is the one in which you talk using PTT.

The group items are expandable and contain lists of member users. User counts are shown next to the group names. To expand or collapse the member list for a group, double-tap the group item.

For convenience, the filtering and sorting buttons are provided in the group list toolbar. List filtering is applied as you type. Sorting is done alphabetically or by index. Note that a custom group order can be defined for your environment, and the indexes of groups are not necessarily the same as their IDs.

Zone management

A zone is a collection of channels that is defined by the administrator in T.Commander. Zones enable users to switch channels conveniently.

To select a zone or switch to the unrestricted list, tap the ![Zone management] icon in the group list toolbar.

Multi-channels and cross-server channels

In TASSTA networks, communication among multiple channels at once can be organized as if they were a single channel. The simpler variant of this is *multi-channels* on the same server port. In addition,

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there is the more advanced option to combine channels from multiple server ports or even from multiple servers into *cross-server communications*.

If a channel is part of a multi-channel or a cross-server communication, this is indicated by the



icon, accompanied by the abbreviated name of the composite channel.

Actions on groups

Long tapping a group in the group list gives you a shortcut menu with actions that you can perform on the group. What items are available in the menu depends on the state of the network and multiple sources of configuration. The following operations can be done:

What you can do	Shortcut menu items	Details
Go to the group's chat	Write message	This opens the <u>Messaging</u> view in the right pane.
Select which groups you want to listen to simultaneously	Listen	For more information about multilistening, see <u>Voice communication</u> .
Mute and unmute the group	Mute	Muting a group is local to your computer only.

User list

This list contains TASSTA user accounts created by the administrator.

For online users, their current group is shown. If a user has a role assigned, that role and the user's status are shown while the user is online. For offline users, the date and time of their most recent activity is shown.

The toolbar for the user list contains the multi-user call button. See <u>Voice communication</u> for details about making multi-user calls.

To quickly switch to the location of a user on the map, tap the $^{\circ}$ icon for that user's item in the list.

Actions on users

Long tapping a user in the user list gives you a shortcut menu with actions that you can perform on the user. What items are available in the menu depends on the state of the network and multiple sources of configuration. The following operations can be done:

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What you can do	Shortcut menu items	Details
Make a one-to-one voice call (or leave a message if offline)	Individual callDirect call	For more information, see <u>Voice</u> <u>communication</u> .
Make a one-to-one video call	PTVVideo call	For more information, see <u>Video</u> communication.
Start text chat with the user	Message	For more information, see Messaging.
Remotely capture audio from the user's device	Remote listening ON/OFF	For more information, see Remote media capture.
Use the camera on the user's device to remotely take a snapshot	 Remote picture front camera Remote picture back camera 	For more information, see <u>Remote media</u> <u>capture</u> .
Locate the user on the map	On map	This opens the Map view in the right pane, with the user in focus.
Find out where the user was last seen	User position info	You are taken to the map view, and the user's last known location is marked in it.
View information about the user's device	Info	The device details include the battery charge, signal strength, active network services and so on.

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Voice communication

iRodon supports the following types voice communication:

- One-to-many:
 - Group call (from anywhere in the app)
 - Broadcast call
 - Group call to PMR over T.Bridge
- One-to-one:
 - Individual call
 - Direct call
 - Offline call
- Many-to-many:
 - Full-duplex call

For details about emergency calls with GPS location notification, see Emergency calls.

One-to-many communication

Group call

Push-To-Talk (PTT) is the main feature of any radio, from simple walkie-talkie handhelds to professional mobile radios such as MPT, DMR, P25 or TETRA. PTT allows a single person to reach hundreds of users in multiple channels by pushing a button. This time-honored and efficient approach is also implemented in the TASSTA solution to improve communication.

A channel normally has a PTT queue, where only one user can have the floor at a time. Depending on the configuration, channels can serve the same purpose as conference calls. In a group that is designated as a *conference group*, there is no PTT queue. Unlike regular group calls, any user in a conference channel can press PTT and talk without waiting their turn.

Whether or not a group is a conference group is configured on a per-group basis by the administrator in T.Commander. This property is not indicated in the group list, so you should ask your administrator to include this information in conference group names.

GROUP TALK IN BACKGROUND MODE:

iRodon uses the Apple Push Notification service to track PTT use in channels and monitor the connection to the server. If you find that the app doesn't become active when someone talks in your selected channel, contact your administrator to ensure that use of the Apple Push Notification service is enabled for your user account and the necessary certificates are valid.

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Group/channel setup on iRodon is similar to PMR terminals. During PTT use, the screen shows appropriate color behavior: light green – red – green, meaning released – requested – granted, respectively.

The PTT button changes color from light green to green when someone is speaking in your group.

PTT HOLD TIMEOUT SPECIFICS:

Administrative configuration may define a PTT hold timeout for your user account, where you are allowed to hold the floor for no longer than a specified time and PTT is automatically released for you when the time limit is hit. This feature works in some situations but not in others – it is applicable where there is a PTT queue (floor control).

In particular, the timeout works in the following types of call:

- Group call (except in conference channels)
- Broadcast call

The timeout *does not work* in the following situations:

- Conference channel
- Individual call

Also note that in networks with bridged connections, the timeout never works for bridge users.

Broadcast call

A broadcast call is similar in purpose to a group call but it is initiated by the broadcast call action instead of the PTT button. Broadcast call permissions are also administered separately from PTT permissions. Broadcast calls are normally intended for announcements and organizational information. In this type of call, the initiator subscribes specific users; these users can only listen and cannot opt out or answer.

To make a broadcast call

- 1. Go to the user list in the left pane.
- 2. Tap the multi-user call button and select **Broadcast Call**
- 3. In the view that opens, select the users you need.
- 4. At the bottom, tap the **Broadcast Call** button.

TIP:

You can also create broadcast call shortcuts with predefined sets of listeners on the home screen.

PTT is available throughout iRodon

Channel talk is the central functionality of the TASSTA system. By default, you can start a channel talk from any operational interface using the PTT button. Even if you are focused on the map interface, the

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PTT button is always at hand. This feature has the advantage of providing easy and fast communication anytime in any context.

When the app is not in the foreground, the iOS-native PTT framework is used for monitoring PTT activity in your selected channel and other channels that you are listening to. You can take the floor in your selected channel by tapping the system-provided graphical PTT button. This applies only to static channels created by the administrator.

PRIORITY CALL:

The priority call is one of the major features of modern professional communication. It allows users with a higher priority (meaning greater priority number) to interrupt individual or group call communication at any time and get through with important information. The range of priority levels is defined by the administrator per server, and the default range is 0 to 9999.

Multilistening

You can listen to multiple channels at the same time if this functionality is enabled for you by the administrator in T.Commander. If this is the case, enable multilistening for each group you need. Do the following:

- 1. In the group list, long tap the group you need and select **Listen**. This enables listening for the group, and the icon changes accordingly.
- 2. If you long tap the icon again, this either mutes the group or disables listening for it, depending on administrative configuration.

Groups for which listening is enabled have a green circle icon on the left.

An additional administrative setting lets the administrator directly specify the list of groups for you to listen to, and that group list is stored on the server side. This is especially useful on devices that have no screen. In such a configuration, you are free to change the multilistening settings, but the administrator's changes may take precedence – for example, if the administrator includes a group that you have previously muted.

Accidental PTT use can be prevented for specific channels

The administrator can configure a channel so that only deliberate group talk occurs in it. Before you can use PTT in such a channel, you have to select that channel. This starts a timer, and you have to press PTT before the timer runs out; otherwise, you'll need to select the channel again.

Group call to PMR over T.Bridge

Any PMR Network such as TETRA or MOTOTRBO can be extended with the TASSTA solution or become integrated as its complement. Voice communication between PMR and TASSTA is possible through T.Bridge. If T.Bridge is configured in your environment, voice communication involving both networks (TASSTA and PMR) is done through special allocated groups using regular group calls. The

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T.Bridge configuration is transparent to you as a iRodon user – use the PTT button and talk, whether your audience is in the TASSTA network or in the PMR network.

One-to-one communication

Individual call

This is the equivalent of a one-to-one simplex call, providing secure point-to-point communication. The two users can be anywhere in the network or in different channels.

To make an individual call

- 1. Go to the user list in the left pane.
- 2. Long tap the user you need and then tap Individual call.
- 3. Wait for the other user to accept your call, and then use the PTT button to start talking.

TIP:

You can also create individual call shortcuts with predefined recipients on the home screen.

WHAT HAPPENS DURING AN INDIVIDUAL CALL:

The calling party sees the Outgoing Call window and hears outgoing call ringtones.

The party being called can hear incoming call ringtones and see the incoming call notification.

The calling party has to wait until the call is accepted or drop the call using the red phone button.

The party being called can accept the incoming individual call or drop it using the red phone button.

If the user could not answer the call, they get a notification message about the missed call.

Direct call

This is an individual call to another user without prior notice. The user who receives the call immediately sees the icon of the established connection on the device screen. This type of call does not require confirmation from the receiving party.

To make a direct call

- 1. Go to the user list in the left pane.
- 2. Long tap the user you need and then tap **Direct call**.

TIP:

You can also create direct call shortcuts with predefined recipients on the home screen.

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If the corresponding parameter is configured by the administrator in T.Commander, a progress bar appears and will run out unless one of the parties involved in the call presses the PTT button. The call is interrupted if the progress bar runs out.

Offline user call

You can initiate an individual call to an offline user. In this case the system automatically accepts the call and records your message. Use the PTT button to record the message. Your records appear in the <u>history</u> and will be available when the user is online.

If you get such a call while you are offline, you can listen to the recorded message in the <u>History</u> view, on the **Missed calls** tab. Tap the play button for that message to play back the recording.

Many-to-many communication

Full-duplex call

In a full-duplex call, multiple users can listen and talk at the same time.

To make a full-duplex call

- 1. Go to the user list in the left pane.
- 2. Tap the multi-user call button and select Full-duplex call or Direct full-duplex call .
- 3. In the view that opens, select the users you need.
- 4. At the bottom, tap the button for the type of call you selected: **Full-duplex call** or **Direct full-duplex** call

A direct full-duplex call does not require confirmation on the receiving end.

Minimizing and restoring ongoing call controls

During a call, a large part of the screen is normally occupied by call controls. If necessary, you can minimize the controls to switch to other parts of the app without interrupting the call. For that, tap the **Back** button in the top left corner. The call controls are stowed in a mini panel that overlays the PTT button, and you can freely navigate the app and keep talking at the same time.

To restore the full-size call screen, tap the **Restore** button in the mini panel:



You can end your call from the mini panel without restoring the full view by tapping the **Hang up** button:



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E2E encrypted call

iRodon offers an additional security mechanism called end-to-end encryption (E2EE), implemented on top of built-in TLS. E2EE prevents potential eavesdroppers from being able to access the encrypted conversation even if they manage to intercept the communication channel. E2EE in TASSTA provides a way of communication where only the communicating users with matching key pairs (encryption and decryption keys) can hear the voice messages. It is an additional level of protection to ensure that no third parties without the keys can capture the voice data being transmitted or store it.

When you make an E2EE call, you need both an encryption key and a decryption key. Agree on the keys with the other user in advance. You can also share the keys with other users from the user list or from the map.

Establishing a secure connection

IMPORTANT:

- The E2EE feature must be enabled for both participating users by the administrator in T.Commander.
- For security reasons, all recorded E2EE calls can be played back from the history only if the appropriate keys are provided.
- Emergency calls and remote listening audio are never E2E encrypted.

Encrypt both devices and share the keys with the user you need. For that, take the following steps:

- Make sure Enable PTT Encryption is enabled on both devices.
- 2. Come up with a key. Any string can be used as the key. Save it as your encryption key in the settings.
- 3. Select the user you need and share the encryption key with them. Instruct the user that they should save it as their decryption key.
- 4. Confirm that the other user has accepted and saved the key.
- 5. Obtain the other user's key and save it as your decryption key in the settings.

The padlock icon on the PTT button indicates the state of E2EE configuration:

- Green, closed encryption is turned on, and at least one of the two keys is set
- Green, open encryption is turned off, but at least one of the two keys is set
- Gray, open neither of the two keys is set (no matter if encryption is turned on)

To go to the encryption configuration screen, long-tap the padlock icon or tap E2EE on the profile screen. On the E2EE configuration screen, toggle the **PTT Encryption** option on or off and manage the encryption key and decryption key.

If you clear the **Encryption Key** and **Decryption Key** fields and tap **Save**, this has the effect of turning off encryption on the device.

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Video communication

iRodon supports the following types of one-to-one video communication:

- One-to-one:
 - Video call
 - PTV (push to video) call
- Many-to-many:
 - Multi PTV call
 - Conference PTV call

PTT HOLD TIMEOUT SPECIFICS:

Administrative configuration may define a PTT hold timeout for your user account, where you are allowed to hold the floor for no longer than a specified time and PTT is automatically released for you when the time limit is hit. This feature works in some situations but not in others – it is applicable where there is a PTT queue (floor control).

In particular, the timeout works for PTV calls but not for video calls.

During video-enabled calls, toggle buttons for the following are available:

- Other speaker's voice
- Your own video feed
- Your own microphone
- Front or back camera
- Flash

One-to-one video communication

Video call

Users can exchange video calls in the TASSTA system. During a video call, each of the participants can change the speaker of the output sound, turn on and off the microphone and video camera, and switch between the front and rear camera view.

NOTE:

Make sure that you have a stable Internet connection when placing or receiving video calls. The quality of a video call depends on the contact with the weakest connection.

To make a video call

1. Go to the user list in the left pane.

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- 2. Long tap the user you need and then tap Video call.
- 3. Wait for the other user to accept your call.

TIP:

You can also create video call shortcuts with predefined recipients on the home screen.

RECEIVING A VIDEO CALL:

When someone video calls you, you see an INCOMING VIDEO CALL screen, where you can accept or decline the call.

PTV (push to video) call

This is a video call that does not require confirmation from the receiving party. A PTV call is declined if the receiving party is already in a call.

To make a PTV call

- 1. Go to the user list in the left pane.
- 2. Long tap the user you need and then tap PTV.
- 3. Use the PTT button to take your turn transmitting video and voice.

TIP:

You can also create PTV call shortcuts with predefined recipients on the home screen.

Many-to-many video communication

Multi PTV call

This is a PTV call with more than two participants.

To make a multi PTV call

- 1. Go to the user list in the left pane.
- 2. Tap the multi-user call button and select Video PTV call
- 3. In the view that opens, select the users you need.
- 4. At the bottom, tap the Video PTV call button.

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Conference PTV call

A conference PTV call allows multiple users to speak at the same time without interrupting each other. To speak, you need to press the PTV button; otherwise, neither audio nor video are transferred from your device.

To make a conference PTV call

- 1. Go to the user list in the left pane.
- 2. Tap the multi-user call button and select Conference PTV call
- 3. In the view that opens, select the users you need.
- 4. At the bottom, tap the **Conference PTV call** button.

Participating in a conference PTV call

Once you have started or joined a conference PTV call, you get a grid of video frames with the participants' video feeds, a push-to-video button, a hang up button and a drop-down list of participants.

Depending on the number of participants, the video frame grid is a single frame, two frames side-by-side or four frames two-by-two. Therefore, you can see a maximum of four participants at a time, but you can swipe left and right to switch to other participants if there are more. Audio from all users is transferred, including those that are off-screen.

To mute the incoming sound or hide the video from a specific user, tap the mute icon next to the user's name. The muted users are highlighted in the list, so they can be easily found. To unmute the user or show its video stream, click the icon again.

To talk in the conference PTV call, tap and hold the PTV button (or tap it once if the toggle option is turned on for you). Unlike PTT-based group calls, there is no floor control; all users who hold the push-to-talk button can talk simultaneously.

Leaving and re-joining a conference PTV call

You can leave the call at any moment by tapping the Hang up button on the call screen.

To re-join the call, switch back to the corresponding conference PTV dynamic channel, named **Conference PTV** *<initiator>*: *<number>*.

Ending a conference PTV call

How a conference PTV call is automatically terminated depends on the state of the **Do not auto-close channels with members** administrative option for the call initiator and the call participants.

When the initiator leaves the call, the following happens:

• If the **Do not auto-close channels with members option** is enabled for the initiator, the call continues while there remain at least two participants. When only one participant is left, the rules are as follows:

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- If the option is disabled for the last remaining user, the call ends as soon as that user is left alone in the call.
- If the option is enabled for the last remaining user, the call ends as soon as the user leaves the call.
- If the **Do not auto-close channels with members** option is disabled for the initiator or the initiator is a T.Rodon dispatcher, the call ends.

At the end of the call, the corresponding dynamic channel (Conference PTV <initiator>: <number>) is automatically removed.

Minimizing and restoring ongoing call controls

During a video call, the entire screen is normally occupied by call controls. If necessary, you can minimize the controls to switch to other parts of the app without interrupting the call. For that, tap the **Back** button in the top left corner. The call controls and the video thumbnail are stowed in a mini panel at the bottom, and you can freely navigate the app and keep talking at the same time.

To restore the full call screen, tap the **Restore** button in the mini panel:



You can end your call from the mini panel without restoring the full view by tapping the **Hang up** button:



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Emergency calls

The emergency call feature is integrated into any mobile client and can be useful in emergency situations. Emergency calls do not require acceptance by the operator. They get through automatically to allow the user to talk straight away without any delay. This feature is designed for immediate interaction with the operator of a command and control centers (who are normally T.Rodon users). When an emergency call is in progress, iRodon sounds an appropriate emergency audio signal and sends an emergency message with GPS coordinates (if GPS is enabled on the caller device).

The emergency message is highlighted red. All emergency messages contain the reason that caused the emergency, and it is logged in the <u>emergency journal</u>.

When an emergency call is started, T.Rodon can toggle a distress sound on the caller device.

When an emergency call is completed, the user is transferred to the default group predetermined for the user.

There are a few emergency-related options that an administrator may configure for users in T.Commander, listed below. You cannot change these options in iRodon.

Prevent stop emergency

If this is enabled, you cannot stop an emergency call once you have initiated it. To finish the emergency call in this case:

- 1. Tap and hold in the screen to suspend the emergency call.
- 2. Wait for the T.Rodon operator to confirm the call end. (T.Rodon shows a confirmation prompt that has to be closed.)
- Mute outgoing emergency

Mutes the sound of the emergency popup that appears when the user sends an emergency.

Max emergency volume

Maximizes the volume for an outgoing emergency when the user sends it.

Making emergency calls

You can make an emergency call in the following two ways:

By tapping the Emergency symbol in the bottom right corner or the right pane:



By tapping the red emergency tile on the <u>home screen</u>

In either case, you get a popup that says "Click to Cancel Emergency Call" and shows a countdown. This helps prevent false emergencies started by mistake. If you tap the popup before the end of the

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countdown, the emergency call is cancelled. If the countdown completes uninterrupted, the emergency call starts and the emergency message is sent.

PTT HOLD TIMEOUT SPECIFICS:

Administrative configuration may define a PTT hold timeout for your user account, where you are allowed to hold the floor for no longer than a specified time and PTT is automatically released for you when the time limit is hit. This feature works in some situations but not in others – it is applicable where there is a PTT queue (floor control).

In emergency calls, the timeout works only after the emergency PTT timeout ends.

Depending on the administrative configuration for your user account, your emergency call may be a video call instead of a plain voice call.

IMPORTANT:

Use emergency calls only for emergency reasons; do not abuse the feature where a direct call would suffice. Emergency calls are intended for users who are in need of urgent assistance. In addition, emergency calls affect the performance of T.Rodon and iRodon more than other types of call do.

The TASSTA development and marketing teams accept no liability for any loss or damage by malfunction or misuse. Users need to ensure that their emergency calls sent to T.Rodon by iRodon can be received by the monitoring operator.

Before production use, do a coverage network test and physical test of the device, including moving it from one site to another. The monitoring operator must ensure that their supervised users follow very strict operating instructions. The users and the monitoring operator should be aware that they cannot rely fully and solely on this product to ensure their safety and security; they can only use this product as an auxiliary, supplemental aid to assist them in knowing the user is in need of assistance.

Deferred emergency

In poor connectivity conditions, it is especially important that your emergency state is signaled and your emergency call comes through whenever the connection to the server is up. The deferred emergency mechanism is used in situations like the following:

- An emergency is triggered while connection is lost iRodon waits until the connection is restored to send the emergency alert and start the emergency call
- An emergency is triggered, but then connection is lost before the emergency call can be started iRodon waits until the connection is restored to start the emergency call
- An emergency is triggered and an emergency call is started, but then connection is lost mid-call iRodon waits until the connection is restored and starts a new emergency call

In all of those cases, the emergency notifications received by other users indicate that the emergency had to be deferred.

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NOTE:

If an emergency is triggered and then cancelled while there is no connection, then the emergency is not started when the connection is restored.

Covert emergency

Covert emergency is a mode for when you need to keep your emergency state unnoticed by people around you. During a covert emergency call, the on-screen indication is the same as for a regular group call. Users who receive your emergency call see standard emergency notifications. Whether your emergencies are regular or covert is configured by the administrator in T.Commander.

To start a covert emergency call, use one of the ways listed in Making emergency calls.

To end a covert emergency call, do one of the following:

- Press and hold the hardware SOS key on a connected accessory.
- Go to the group list and change your group. Leaving your emergency group ends the call if other users have already left it.
- Contact the dispatcher to dismiss the call from T.Rodon.

Hidden emergency countdown

If an emergency countdown is set by the administrator, the emergency call starts after the specified timeout has elapsed.

Until the timeout has elapsed, both on-screen and hardware push-to-talk buttons will continue to function normally (for making standard PTT calls) and the user can switch iRodon screens.

Unlike standard emergency calls, there is no on-screen countdown to cancel the covert emergency and no audio alert. The only indication that an emergency has been initiated is the disappearance of the Emergency icon from the screen.

Once the emergency call is ended, the Emergency icon re-appears on iRodon screens and the original channel name is displayed on the PTT button.

WARNING:

Since there is no visual indication of the covert emergency countdown, this countdown can only be cancelled using a hardware SOS button on a connected accessory.

Communicating

Once the emergency call is started, a dynamic channel called Emergency <number>: <user> is created and the user is automatically switched to it.

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The emergency (blinking red) screen is not shown and the user can freely switch views.

While the emergency call is in progress, the Emergency icon is not displayed in the right pane.

PTT timeout for covert emergencies

If the administrator has set the emergency PTT timeout for you to 0 (unlimited), you can talk indefinitely without holding the PTT button until the emergency call is ended.

If the emergency PTT timeout is limited to a certain number of seconds, you can talk without holding the PTT button until the timeout expires. After that, you need to tap and hold the button to continue talking (as with standard PTT calls).

If you tap the PTT button before the emergency PTT timeout expires, it automatically releases the floor regardless of the emergency PTT timeout setting. After that, you need to tap and hold the button to continue talking (as with standard PTT calls).

Whether or not you have the floor, you remain in your emergency channel until you end the call.

Covert video emergency

If the administrator has enabled video emergency for you, the voice call is replaced by a video transmission from the default (front) device camera.

The video is transmitted all the time until the emergency call is ended, regardless of the PTT button state and emergency PTT timeout.

During covert video emergency, the standard interface is shown, and you can freely switch app screens.

A covert video emergency call is ended in the same way as a voice emergency call.

Emergency screen during covert emergency

While covert emergency is active, the text "HOLD TO START EMERGENCY CALL" is displayed as if the emergency call has not started. However, tapping and holding the screen is disabled.

Emergency channel

IMPORTANT:

Although visual and audible signs of a covert emergency are minimal, there is still a way to tell an emergency call was made. The name of the active channel can be a giveaway.

An emergency call operates in a dedicated dynamic channel called **Emergency <number>: <initiator>**. The name of this channel will replace the original channel name in the header and (if enabled by the administrator) on the PTT button.

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WORKAROUND:

If the administrator disables the display of the channel name on the PTT button for you, this prevents the telltale emergency channel name from appearing on the PTT button.

Unlike standard emergency calls, the channel and the user names on the PTT button during covert emergency are displayed in the default color instead of red.

Emergency channel will also be displayed in the group list.

Covert emergency calls in history

If you have access to call history, information about the covert emergency call is available on the History screen:

- Emergency channel name
- Call type (exclamation mark icon)
- Call date and time
- Recorded call with playback functionality (if recording is enabled)

WORKAROUND:

To prevent attackers and aggressors from gaining access to this information, an administrator should disable access to activity history for you.

Voice and video from other covert emergency call participants

The voice responses from other call participants are played on the covert emergency initiator's device, as in standard PTT calls, even if the device is in loudspeaker mode.

Video from other participants is not shown to the call initiator during covert video emergency.

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Emergency journal

The emergency journal shows emergency calls and alarms of all types (including geozone traversal alarms and it is the only area in iRodon that lists emergency messages. The emergency journal is available to you only if it is enabled by the administrator in T.Commander.

To view emergency messages, tap the **Emergency Journal** tile on the <u>home screen</u> or the **Emergency Journal** item on the profile screen.

When a user initiates an emergency call, authorized users get an emergency notification with an indication of the type of emergency message. Whether or not you can receive emergency notifications depends on administrative configuration for your user account and the current set of channel rules. Notably, you may receive emergency notifications even if the emergency journal is not enabled for you.

If the user who sent the emergency message has GPS enabled, the message contains the coordinates of the emergency event. Tap the message to do any of the following actions:

- Copy the text of the emergency message, including the type of emergency, by tapping Copy to the clipboard
- View the location of the emergency event on the map by tapping **On map**

Call requests

A call request is an invitation to communication that you send to the T.Rodon operator so that they can call you back at their convenience. Call request are available on the homescreen">homescreen.

You can make:

- A regular call request (green tile)
- An urgent call request (red tile)
- A first-to-answer call request (yellow tile)

To send a call request, tap and hold the call request tile you need. If you have already sent a call request and you want to change its priority from normal to urgent or the other way around, simply tap and hold the tile for the other priority. This will change the call request priority.

A first-to-answer call request doesn't have an urgency option. A dispatcher accepts such a request by making a one-to-one (individual or direct) call to you.

To cancel a call request that you have made, tap and hold the tile that says, "Hold to End Call Request". The request can also be cancelled from T.Rodon in the following situations:

- The T.Rodon operator manually cancels the request.
- For regular and urgent requests: the T.Rodon operator accepts your request and moves to the channel you were in at the time of the request, but you are not in that channel anymore.

NOTE:

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<u>Call queue</u> must be enabled on the server in order to use this feature.

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Messaging

iRodon has advanced integrated messaging and file transfer facilities that let you exchange text messages and files in a group or privately. iRodon supports the following features:

- Text exchange
- File exchange
- Message exchange with PMR through T.Bridge

When you switch to the Chats view from the <u>home screen</u>, you get a list of your recent group and private chats, and you can tap any of them to continue the chat.

To start a chat with a group or user that is not in that list, use the shortcut menu in the group or user list:

- For a group chat, long tap the group you need and tap Message
- For a private chat, long tap the user you need and tap Write message

Text messages can be sent to offline users. When the user comes back online, they will be able to read and reply to those messages. The user gets a notification about the unread message and can switch to the messaging screen using that notification.

Copying messages

Messages can be copied and quoted.

To copy a message, tap the message and select **Copy**. Then tap and hold in the input field and tap **Paste**.

To quote a message, tap the message and select **Quote**. The message is quoted immediately in your input field.

Deleting messages

You can delete your own messages as long as this is permitted to your user account by the administrator.

To delete a single message, tap it and then tap the trash can in icon that appears in the top bar.

To delete multiple messages:

- 1. Tap the **More** icon in the top bar and tap **Delete messages**.
- 2. Select the messages you want to delete by tapping them. The trash can icon in the top bar becomes green when something is selected.
- 3. Tap the trash can icon to proceed with the deletion.

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4. Tap the **Back** arrow in the top bar to exit message deletion mode.

After you have deleted the messages, a notification bar is shown at the bottom for a few seconds, telling you how many messages have been deleted. It includes an **Undo** button in case you change your mind and decide to restore the messages, but you only have a few seconds to do it.

Message states

iRodon tracks if your messages have been received and read. This is indicated as follows:

- Sent a single white check mark next to the message; a message has this state if the recipient was offline at the time of the sending
- Received a double white check mark means the recipient got the message and was notified but hasn't read the message
- Read a double green check mark means the user has read the message

In a user-to-user chat, a message can also come with an acknowledgement request; this is the sender's way of confirming you have given attention to the message. On the requester's end, such a message has the "Confirmation Requested" label at the bottom. On the recipient's end, the message has a lighter background. To request acknowledgement for your own message, send it by long-tapping the **Send** button and tapping **Send with acknowledge**.

To acknowledge a message that requires it, simply tap the message. An acknowledged message is tagged with the "Confirmed" label on the requesting user's end and gets the normal background color on the recipient's end.

Status messages

Status messages are canned short messages for specific situations. Examples of such messages are "OK", "Call me" or "Busy right now". You can receive and send status messages that are configured by the administrator in T.Commander. Each such message has a tag, message text and comment, and a color can be defined for it so that you can instantly spot and categorize it.

When you are in a chat with someone, tap the callout icon and then select the necessary message by tapping it. The message is sent immediately. Alternatively, type the hash (#) symbol to see the list of available hashtag-like shorthand labels. Tap the label you need to send the message that it stands for.

File exchange

To go to the file exchange interface, tap the user or group you need in the user or group list. This takes you to the recent messages history screen. Here you can send a file and see recent chat history.

To send an image, tap the staple icon, select the image source and complete the upload. The file will be immediately transferred to the server, and the recipient will be notified.

When you send a file to a group, all users in the group receive an incoming message notification and can download the file.

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NOTES:

- The app does not restrict the maximum size of a file to upload. However, your upload may be affected by the server-side configuration settings.
- There are some restrictions on the file types you can upload. Files with the following extensions are blocked:
 - Executables: .action, .apk, .app, .bat, .bin, .cmd, .com, .command, .cpl, .csh, .exe, .gadget, .inf, .ins, .inx, .ipa, .isu, .job, .jse, .ksh, .lnk, .msc, .msi, .msp, .mst, .osx, .out, .paf, .pif, .prg, .ps1, .reg, .rgs, .run, .scr, .sct, .shb, .shs, .u3p, .vb, .vbe, .vbs, .vbscript, .workflow, .ws, .wsf, .wsh
 - Web resources: .aro, .ashx, .asp, .aspx, .atom, .att, .axd, .chm, .cms, .css, .dcr, .dhtml, .discomap, .download, .ece, .epibrw, .htm, .html, .htmls, .hxs, .jcz, .jnlp, .js, .php, .jspx, .php3, .qrm, .rss, .tvs, .ucf, .url, .xhtml
 - Office files: .docm, .dotm, .potm, .pptm, .ppam, .ppsm, .xlsm

To view a file that you have received, tap the message. This downloads a file and opens it with an associated app.

Message exchange with PMR through T.Bridge

Any PMR Network such as TETRA or MOTOTRBO can be extended with the TASSTA solution or become integrated as its complement. Messaging between PMR and TASSTA is possible through T.Bridge. If T.Bridge is configured in your environment, messaging involving both networks (TASSTA and PMR) is done through special allocated groups using regular group calls. The T.Bridge configuration is transparent to you as a iRodon user – you can text people no matter whether they are in the TASSTA network or in the PMR network.

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Voice recording and call history

iRodon provides a feature-rich voice recording and history call log. The TASSTA system can store vast amounts of voice communication data and call details for all channels and users. This data can be accessed through the History interface in iRodon. You can do the following:

- View call details: time, date, user or channel, duration
- Play back voice recordings (individual and group calls)

To view the history, tap **History** on the <u>home screen</u>. Recent recordings for a preconfigured period are available on the history screen. How far back the items are available is configured by the administrator in T.Commander.

The History view organizes the available items into three tabs:

- All calls
 This includes group calls that you participated in and your missed calls
- Individual calls
 Individual and direct calls that you participated in
- Missed calls

To replay a call, tap that that call in the list and use the playback controls that appear.

Voice data storage and retention

The TASSTA system records conversations in real time and keeps the recordings on the T.Lion server. The only consideration for the retention of recordings is how much disk space the server has. This affects your administrator's decision on how much recent data to make available to users.

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GPS location and tracking

Many popular services such as taxi companies, post offices and shipping companies often use GPS tracking features to optimize their operations in the field. iRodon provides tools that integrate GPS tracking capabilities with the built-in map. To access the GPS location and tracking interface, tap **Map** on the https://example.com/homescreen. You can do the following on the map:

- Zoom in and out
- View the precise positions of TASSTA users and locate them
- View the "who is talking" status and identify users
- Center on a specific user
- Configure the GPS view

User identification and markers

The position of each subscriber is marked by an icon on the map with a label that shows the user name.

The user's icon changes status changes when the user presses PTT and the floor is granted. The set of icons is as follows:

Icon	Meaning
©	Your location
Ö	Your last known location
0	You are talking
Ö	Location where you were last seen talking
Q	User's location

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lcon	Meaning
Ö	User's last known location
O	User is talking
Ò	Location where user was last seen talking
Q	User is in emergency
Q	Emergency message
Ö	User's coordinates are unknown
Ò	User with unknown coordinates is talking

In addition to the icons listed above, there is a set of icons with the same meanings for radio users connected to the TASSTA network through bridge middleware. These icons have a pin, as in the following example:



If the user logs out or loses connection, that user's marker is displayed half-transparent until it times out or the user comes back online.

The last known location icons are displayed in two cases:

- 1. The user has gone offline. The user icon will immediately change to the last known location icon.
- 2. The user turned off the GPS. The user icon will change to the previous location icon only after a timeout that is configured by the administrator in T.Commander.

NOTE:



Some users who are online may be absent from the map. This normally means the administrator has turned off GPS location sharing for these users. However, when such a user makes an emergency call, their GPS coordinates are sent to all users that they can reach.

Detailed street view

It is important to have a detailed street view on the map. The integrated map provides a detailed street view with house numbers, road and street names and provides the address of any location.

Furthermore, the map shows colored lines, areas and other standard symbols to help read and interpret the map at different scales.

Real-time positioning and precise location on the map

There are many publications and articles on the Internet devoted to the accuracy of GPS on mobile phones. Some of them introduce us to new technologies improving the accuracy of GPS receivers on phones. Some articles describe the test results for specific mobile phones and even explain the math behind the process. These materials are good to keep in mind, but the best practice is always to test.

Our tests and practical experience allow us to say that today embedded GPS receivers in many existing mobile phones not only meet but also exceed most of the requirements for production use.

The map component of iRodon has powerful user locating features. On the iRodon map you can see your TASSTA network users' locations in real time, accurate to the street and house number.

Centering the map on a user

To directly jump to a specific user's location without scrolling the map around, go to the user list, long tap the user and tap On map. This feature becomes indispensable if you have hundreds of users in your TASSTA network.

To jump to your own location, tap the **On map** icon, which is located above the map view.

Hiding users from other channels

To hide users that are not in your channel, tap the **More** icon in the top bar and select **Current** channel only.

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Waypoints

You can leave annotated marks and routes on the map, called *waypoints*. Waypoints are intended for your personal use and stored on the server.

To go into waypoint editing mode, long tap a spot on the map. To add a waypoint in this mode, place the cursor where needed and tap the the + icon. You are prompted to provide a name, color and description for the new waypoint. Repeat this without leaving placement mode to draw a route. To apply your changes, tap the check mark icon.

NOTES:

- Waypoints are available only if Mapbox is used as the map provider in your environment. To check if that is the case, look for the Mapbox logo in the lower left corner of the map.
- Waypoint management does not require that you share your GPS data. You can keep your location data private, and your waypoints will still be synchronized with the server.
- Deleting waypoints is not supported. This is done by your operator in T.Rodon.

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Task management and control

The TASSTA Task Manager system provides users issue management capabilities found in any modern CRM system.

It includes manual and automated processing algorithms with real-time status updates, user management, positioning, reporting, and administrative information. What's more, the data can be integrated into other TASSTA services, web clients, and external databases. The Task Manager system is highly flexible and feature-rich. An issue can be renamed or transformed into an order, task, item, client or any other tracker type. The main features are as follows:

- Adaptable to a variety of purposes
- Tracking of tasks, orders and issues in real time
- Customer service data
- Centralized database
- Status updates through QR codes or barcodes

For example, taxi and logistics companies use Task Manager to integrate order response with voice and data communication. The TASSTA Task Manager helps them create and track the order, follow the order status and preserve customer data.

Data exchange between the Task Manager server and the client uses the HTTPS protocol, which makes communication more reliable and secure.

The complete Task Manager solution is based on T.Rodon and the mobile client front-end. T.Rodon is responsible for most of the control and management. The T.Rodon operator creates and assigns issues, orders and tasks. Mobile users can change status, add notes, take pictures, attach files and add signatures.

Each issue/order/task has the following attributes:

- ID
- Name
- Description
- Title
- Priority
- Tracker
- Progress
- Author
- Assignee
- Created date and time
- Notes
- Last status update

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In addition, the issue/order/task can have custom fields that are configured by the operator in T.Rodon.

It can also contain attached files (documents, signatures and so on). In addition, the schema can be extended by custom fields for storing specialized information in the system.

When the T.Rodon operator creates an issue and assigns it to you, you get a notification in the task bar of your device.

To see the full or filtered list of issues assigned to you, tap **Task Manager** on the <u>home screen</u>.

To create a new issue, tap the plus icon in the top bar and specify the name for the issue. The newly created issue is automatically assigned to you.

To work with a specific existing issue, tap that issue in the list. The following tools become available:

Icon	Meaning
艮	Edit the fields of the issue
	Add a note
0	Attach a file
51	Add a signature

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Remote media capture

To ensure higher safety, iRodon provides the possibility of remote capture of audio and pictures from other users' mobile devices. For example, if a user fails to get in touch, remote media capture can help you assess the situation that the user is in.

NOTE:

Remote video capture from iOS devices is not supported at this time.

This can be very important in critical environments such as security services or the military where the person can be attacked or works in high-risk conditions.

NOTES:

- Remote media capture gives you undetected access to the current working situation of your teammate. Always respect the privacy of your colleagues. These features are designed strictly to meet security requirements. In addition, applicable legislation and company policy must be considered.
- Due to continuous software and hardware upgrades, TASSTA functionality may be incompatible with some mobile cameras. Please consult TASSTA if in doubt.
- Remote media capture is not E2E encrypted. If the other user has turned on E2E encryption, you
 can still get media from their device.
- Remote media capture stops when the user presses PTT or an individual call is made to or by the user.
- Remote access to a particular user's camera and microphone can be denied by the administrator in T.Commander.

Remote listening

You can access the microphone of a specific user remotely, unless this is denied by the administrator. To activate remote listening, tap the user in the user list, go the options menu and select **Remote listening ON**. Remote listening mode is activated, the appropriate notification is displayed, and a blue microphone icon is shown for the user's item in the list. To deactivate remote listening, go the options menu and select **Remote listening OFF**.

iRodon users may not be warned about remote listening, and this can be used for assessing the situation undetectedly. Whether or not the user is notified is configured by the administrator in T.Commander.

If such notifications are enabled for your user account, you can use the **Accept incoming remote listening requests** option in iRodon settings to control whether you want to be able to reject the requests.

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NOTE:

Remote listening is turned off if you or make or answer a call or use PTT to talk in a channel.

Remote picture

You can access the snapshot functionality of a specific user's camera remotely, unless this is denied by the administrator. For example, if you get a Man Down alarm from a user, it might be a good time to try and get a picture from the user's camera in case it helps find out what happened.

To take a remote picture, tap the user in the user list, go the options menu and select **Remote picture** back camera or **Remote picture front camera**. This opens a popup window with the snapshot.

iRodon users may not be warned about snapshots being taken remotely, and this can be used for assessing the situation undetectedly. Whether or not the user is notified is configured by the administrator in T.Commander.

If such notifications are enabled for your user account, you can use the **Accept incoming remote** camera requests option in iRodon settings to control whether you want to be able to reject the requests.

The quality of the snapshot depends on the mobile device, position of the camera and light conditions.

NOTE:

Generally, the resulting snapshot is unlikely to be informative. For example, if the user's phone is lying lens down, the picture from either camera is useless.

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Direct mode

iRodon can operate in a serverless Wi-Fi direct mode that provides only push-to-talk (group call) functionality and works only within the reach of a single wireless network. To enable direct mode, log out of the TASSTA network (if you haven't already), go to the application settings and under **Operation mode** tap **WiFi direct mode**. Direct mode becomes enabled, and all operational views and configuration settings that are not applicable become hidden.

To log in with direct mode enabled, go to the login screen and specify the following:

- The desired user name
- The port number, which doubles as your group ID; this is the port that your group calls will use, and you will only be able to talk to users that have specified the same port

After that, tap Connect.

In direct mode, there is no authentication and no centralized user and channel directory. Any mobile user is free to connect with an arbitrary user name. Furthermore, user names don't have to be unique. If there are identical user names in a direct-mode ad-hoc network, you can distinguish them by the IP addresses shown next to them in the user list.

To talk in the channel, tap the PTT button.

Logging out in direct mode is no different from logging out in server mode – tap **Logout** on the <u>home screen</u>.

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Application settings

Configure the application using the gear icon in the top right corner of the login screen. The version information can be found at the bottom of the screen.

The following settings are mandatory for establishing a connecttion to the TASSTA network:

- Username
- Password
- Server domain name (or IP address)
- Server Port

To change a parameter, tap that parameter, enter the value and tap **OK**.

NOTE:

Changing these settings can be disallowed by your TASSTA administrator in T.Commander.

The following tables list all of the options and features available in the iRodon Settings menu. Configure them in accordance with your network policy and operational environments. For details about the availability of features, use the Features Status shortcut on the <a href="https://example.com/horses/bases/b

Choice of mode

Parameter	Description
Operation mode	Whether to communicate with the TASSTA server for the full-featured experience (Server mode) or become part of a peer-to-peer network with reduced functionality within the reach of a wireless network (WiFi direct mode); for details about direct mode, see <u>Direct mode</u>

Accounts

This item is available only if you are logged out. Here you can switch the account that you want to log in as and change the list of account profiles stored on the device. For details about account switching, see <u>Logging in and out</u>.

User settings

For more information about the use of these settings, see <u>Logging in and out</u>.

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Parameter	Description
User name	User name configured in T.Commander
Password	Password configured in T.Commander
Server	Server domain name or IP address
Port	Server port
Edit credential on login screen	Whether to show the user name and password input boxes every time the app starts
Use name alias	Show the aliases (where available) of users in the network instead of their login names
Autologin	Whether to automatically log in with the pre-configured credentials when the app starts
Allow save password	Whether to save the last password you used for successful login
Send analytics	Whether to send analytics data to the server

Audio settings

Parameter	Description
Play PTT start tone	Whether to play a short tone every time the PTT button is pressed
Play PTT release tone	Whether to play a short tone every time someone releases the PTT button in a group or individual call
Noise suppression	Whether to reduce background noise from your surrounding environment
Echo cancellation	Whether to reduce echoes and other unwanted reverberations
Voice activity detection	Whether to determine if you are talking; when there is no voice, the microphone volume is significantly reduced
Mic Audio volume gain	How much to equalize the average microphone volume

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Parameter	Description
Use native iOS Push to Talk	Use the Push to Talk framework to access essential communication features while the app is running in the background NOTE: This feature is still experimental and has not been extensively tested in real-world scenarios.

<!--## Map settings Parameter | Description -- | -- Tile source | Whether to use a local map source ## Video settings Parameter | Description -- | -- Video profile | Select a video stream configuration preset from **Low** (minimum latency) to **High** (smoothest)-->

External hardware settings

Parameter	Description
Preferred BT device	Select the Bluetooth device to pair with and use as a PTT aid
Programmable button	Select the functionality to assign to the button on a supported external device (paired Aina device or connected headset with a multimedia button):
	Last record in History
	Defined channel
	Answer the incoming call
	• None

System information

Item	Description
T.Lion server version	Version of the T.Lion server that the app can communicate with

Debug menu

The Settings screen also provides access to the Debug menu, where you can configure iRodon logging, view logs and send them to a recipient of your choice (such as Support).

The Debug menu has the following options and tools:

Log level
 Select how detailed the logging should be:

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- None
- Fatal
- Error
- Warning
- Information
- Traces
- Log list
- Remove any logs option for deleting all stored logs

To view a log from the list, tap that log's item. When the log view is open, you can tap the upload icon in the bottom left corner to share the log using one of your installed apps or save it to a location of your choice.

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Supported external devices

The following devices have been tested and approved for use with iRodon on iPadOS.

Aina PTT Voice Responder Bluetooth speaker microphone

THIRD-PARTY ISSUE:

The buttons on a PTT Voice Responder may stop working. This can occur if you change the device that the accessory is connected to. If this happens, try the following:

- 1. Reset the PTT Voice Responder by pressing both PTT buttons and both arrow buttons until the LED turns off.
- 2. Close iRodon.
- 3. Forget the PTT Voice Responder in the iOS Bluetooth settings.
- 4. Open iRodon and reconnect the PTT Voice Responder.

Crosscall X-COMM remote speaker microphone

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Increasing battery life

The battery life of client iPadOS devices is greatly affected by the TASSTA network features enabled on the server side. The more features enabled, the faster the battery drains due to multiple services exchanging information frequently.

If you find that your battery drains too quickly after installing iRodon, try the following workarounds (one or more):

- Disable <u>client features</u> you do not use or those which are not required by this particular user. Pay special attention to the following features:
 - Map enable it only for users who need to access the map from iRodon. Otherwise, keep it disabled.
 - <u>Share location</u> enable it only for users whose position you want to tracked. Otherwise, keep it disabled.
- Completely disable <u>Mapbox</u> geodata provider for the user. Switch **Geodata provider** in <u>user settings</u> to *OpenStreetMap / Apple Maps (iOS)*.
- Increase the <u>location sharing interval</u> parameter to 60 seconds or more.

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