

SmartPTT Mobile User Guide for iOS



Revision History

Revision	Description	Date
1.1	Second release of the document. The document is compliant with SmartPTT Mobile 3.0.2.	July 2020
1.0	First release of the document. The document is compliant with SmartPTT Mobile 3.0.0 beta.	April 2020

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About This Document

The document explains how to install, configure and use SmartPTT Mobile.

The document uses the following conventions:

- **Bold** represents the names and titles of graphical user interface elements. For example, the **Message** field.
- *Italic* represents the names of referenced manuals.

1 Overview

SmartPTT Mobile is an application that provides the ability to integrate mobile devices and MOTOTRBO radios into a single communication network via SmartPTT Radioserver. SmartPTT Mobile users can receive and initiate individual and group voice calls from/to radios and talkgroups, as well as other SmartPTT Mobile users.

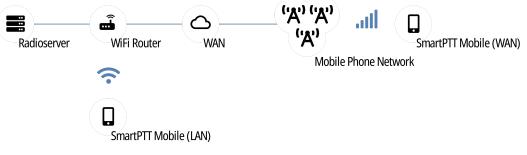


Fig. 1. SmartPTT Mobile Overview

SmartPTT Mobile requires a continuous connection to SmartPTT Radioserver to request and receive information. It operates only with the main SmartPTT Radioserver; alternate/redundant SmartPTT Radioserver is not supported.

1.1 Features

SmartPTT Mobile provides the following features:

- Voice communication with radios and talkgroups (group calls and private calls).
- Voice communication with other SmartPTT Mobile users (group calls and private calls).
- Ability to create virtual groups for simultaneous voice communication with SmartPTT Mobile users and talkgroups.
- Tracking users' online/offline status in real time.
- Ability to work in two modes: in high priority mode and in normal mode.

1.2 Requirements

For the best SmartPTT Mobile operation, the following requirements must be met:

Parameter	Value
iOS Version:	11.0.0 or higher
Processor:	Apple A7
Memory (RAM and ROM):	RAM — 1 GB; free disk space — 25 MB
Support 4G networks (LTE):	Yes
Display size:	4"

Networking Requirements

Parameter	Value
Bandwidth	> 65 kbps
Packet Loss	Good voice quality: 0.0–2.5%
	Poor voice quality: 2.5–15.0%
Two-Way Delay	< 90 ms
Jitter	< 90 ms

NOTE

These are minimal system requirements for SmartPTT Mobile. They can change depending on a device.

2 Installation and Configuration

SmartPTT Mobile is a mobile application distributed via App Store. Once it has been installed, it needs to be given the permission to use a device microphone to operate correctly.

Before using SmartPTT Mobile you must configure client connections to support SmartPTT Mobile. For information on SmartPTT Radioserver configuration for use with SmartPTT Mobile, see "Configuring SmartPTT Mobile Connection" in *SmartPTT Installation and Configuration Guide*.

Besides, you must create a client account in SmartPTT Radioserver Configurator for logging on to the application. For details, see "Managing Client Accounts" in *SmartPTT Installation and Configuration Guide*.

SmartPTT Mobile can also interact with profiles, that are created in SmartPTT Radioserver Configurator and used to limit client access to radio networks and actions within available radio networks. Before using SmartPTT Mobile you must find out the necessity of assigning a profile to the client account. For details, see "Managing Profiles" in *SmartPTT Installation and Configuration Guide*.

3 Reconnection to Radioserver

Below is described the SmartPTT Mobile operation during a loss of connection with SmartPTT Radioserver and reconnection to it.

When reconnecting SmartPTT Mobile to SmartPTT Radioserver, the following scenarios of the mobile application behavior are possible:

If the reason for the loss of connection with SmartPTT Radioserver is the Internet disconnection, the mobile application start screen will be displayed and the mobile application will wait for the restoration of the Internet connection. As soon as the Internet connection is restored, connection to SmartPTT Radioserver will be restored automatically.

Important

Automatic connection to SmartPTT Radioserver will be established if successful client authorization was on SmartPTT Radioserver before.

- If the connection with SmartPTT Radioserver> is lost because SmartPTT Radioserver for some reason closes the connection, the mobile application start screen will be displayed, connection to SmartPTT Radioserver will not be restored automatically.
- If for some reason the mobile application operation is stopped by the iOS operating system, and the application is unloaded from the device's memory, then the next time you start it manually, the mobile application start screen will be displayed, connection to SmartPTT Radioserver will be restored automatically.
- If the device was rebooted, the mobile application start screen will be displayed, connection to SmartPTT Radioserver will not be restored automatically.
- After the client is log out, or SmartPTT Radioserver closed forcibly the connection, connection to SmartPTT Radioserver will not be restored automatically.

4 Using SmartPTT Mobile

This section describes describes SmartPTT Mobile functionality and provides instructions on using it.

4.1 Logging On to SmartPTT Mobile

Follow the procedure to log on to SmartPTT Mobile.

Prerequisites:

- Determine SmartPTT Radioserver IP address and HTTP port number.
- Determine a client user name and password.

Procedure:

 Launch the SmartPTT Mobile application. The login screen appears.

C		
Username Kim J		
Password		8
Server Address 192.168.36.57	Port 10993	



Fig. 2. SmartPTT Mobile Login Screen

- 2. In the **Username** field, type a client user name configured in SmartPTT Radioserver Configurator.
- 3. In the **Password** field, type the client password.
- 4. (Optional) Tap **View Password** (^(N)) to display password characters instead of bullets.
- 5. In the **Server Address** field, type the SmartPTT Radioserver IP address.
- 6. In the **Port** field, type the SmartPTT Radioserver HTTP port number.
- 7. Tap **Login**.

Postrequisites:

To quit the SmartPTT Mobile application, you must log out.

4.2 Navigating Contact List

Contact List is the main window of SmartPTT Mobile. It appears after a user logs in.

Ξ	\$	SmartPTT Mob	oile	Q	+
	All	Private		Group	
-0	Test Gro contacts	oup 1 4 / offline 2			0 0 0
-	All Call (Slot 1	Area 1)			
-	All Call (Slot 2	Area 2)			
-	Group 1 Slot 1				
-	Group 2 Slot 1				
-	Group 3 Slot 2				
-	Group 4 Slot 2				
	Anthon	у			
	Michael	I			
	Tom				
6	12 Intercom				

Fig. 3. Contact List

The Toolbar at the top of the window (appears if the window is scrolled up) provides the following elements:

Menu (🗐)

Opens the SmartPTT Mobile side menu.

Search ($^{ extsf{Q}}$)

Provides the ability to filter the Contact List by typing the beginning of a contact name in the search field that appears in the middle of the Toolbar.

New Group (+)

Opens the **New Group** window.

The filter pane below the Toolbar provides the following filters for the Contact List:

- **All** the Contact List displays all contacts.
- **Private** the Contact List displays only DMR radios and SmartPTT Mobile users.
- **Group** the Contact List displays only DMR talkgroups and virtual groups.

The Contact List is the scrollable middle part of the window. Tapping a contact assigns it to the PTT button at the bottom of the window. Pressing the button will initiate a call to the selected contact.

The icon to the left of the contact name indicates the type of the contact:

- DMR talkgroup (🔤)
- DMR radio (^(C))
- SmartPTT Mobile user (🕛)
- Virtual group (💷)

For DMR radios and SmartPTT Mobile users, online/offline status is displayed in the bottom right corner of the icon as a green or gray circle respectively.

For different types of contacts, the following is displayed as their name:

DMR talkgroup	Talkgroup name (as specified in SmartPTT Radioserver Configurator) with its channel below
DMR radio	Radio ID with its channel below
SmartPTT Mobile user	SmartPTT Mobile user login
Virtual group	Group name

The PTT button at the bottom of the window provides voice call indication and the ability to initiate calls.

4.3 Voice Calls

SmartPTT Mobile provides the ability to initiate and receive half-duplex voice calls to/from SmartPTT Mobile users, virtual groups (groups of SmartPTT Mobile users), DMR radios and DMR talkgroups.

4.3.1 Color Indication of Voice Calls

SmartPTT Mobile provides the following color indication of voice calls:

• No voice call in progress, no contact selected.



• No voice call in progress, a contact is selected. You can tap PTT to initiate a call.



• Outgoing voice call in progress. Recipient name is displayed on the button.

Test Group contacts 5 / offline 4

• Incoming voice call in progress. Voice call initiator name is displayed on the button.



Channel hold mode (hangtime) in progress. None of the parties are transmitting the voice call.



4.3.2 Performing Voice Calls

SmartPTT Mobile can initiate or receive only one voice call at a time. In order to receive a call, no action is necessary. Incoming voice is heard immediately and the voice call initiator's name is displayed on the PTT button.

In order to initiate a call, tap the desired contact in the Contact List, and then, depending on SmartPTT Mobile settings, either tap and hold, or tap the button. As soon as the outgoing call indication appears (the PTT button becomes orange), you can speak.

You can also initiate a call to a virtual group by tapping to the right of the name of the desired virtual group More (

) → Call.

4.4 Editing SmartPTT Mobile Settings

Follow the procedure to edit SmartPTT Mobile settings.

Prerequisites:

Log on to SmartPTT Mobile.

Procedure:

In the Contact List, swipe from the left edge of the screen or tap the Menu (=) button in the top left corner of the window.
 Smart PTT Mobile side menu appears

SmartPTT Mobile side menu appears.

2. In the menu, tap **Settings** \rightarrow **Application**. The **Application** window appears.

< Settings	Application	
	node connection alive and receiving nized mode of the application	
Vibration Cont Device vibrates receive etc.	rol on PTT press, message	
Silent Mode All sounds disab	led in this mode	
Toggle PTT Tap PTT instead	of tap-and-hold	\bigcirc
Private Contac	t Selection Timeout	
6 sec	•	10 sec



Fig. 4. Application Settings

3. Configure the desired priority of the SmartPTT Mobile operation mode:

Γο configure SmartPTT Mobile to work in high priority mode,	turn on the High priority mode toggle.
Γο configure SmartPTT Mobile to work in normal mode,	turned off the High priority mode toggle.

Important

Regardless of the selected operation mode, SmartPTT Mobile is always interrupted by incoming phone calls.

NOTE

The priority of SmartPTT Mobile operation mode determines its behavior referring to SmartPTT Radioserver connection, as well as interacting with the microphone and speaker when minimizing application (switching to another application) or locking the screen when the application is active. In normal mode, connection with SmartPTT Radioserver is interrupted, the microphone and speaker are not used by the application. In high priority mode, connection with SmartPTT Radioserver is active, the application continues to use the speaker, but does not use a microphone.

- 4. To have the device vibrate when a user initiates a call, turn on the **Vibration Control** toggle.
- 5. To suppress tones when a call begins, ends or is interrupted, turn on the **Silent Mode** toggle.
- 6. Configure the PTT button behavior:

To initiate calls by tapping and holding PTT,	turn off the Toggle PTT toggle.
To initiate/end calls by single-tapping PTT,	turn on the Toggle PTT toggle.

7. In the **Private Contact Selection Timeout** line, tap the number to set the time in seconds during which a private contact selected from a virtual group contact list will remain assigned to the PTT button. After that, the PTT button will revert to the virtual group. Available values from 6 to 10 seconds.

4.5 Managing Virtual Groups

Virtual groups are a type of group contact. They are created by SmartPTT Mobile users and can include SmartPTT Mobile users and DMR talkgroups (no more than one talkgroup per virtual group). When a virtual group is created, it appears on all SmartPTT Mobile users' contact lists added to the group.

4.5.1 Creating Virtual Groups

Follow the procedure to create a virtual group.

Prerequisites:

Log on to SmartPTT Mobile.

Procedure:

 In the top right corner of the Contact List window, tap New Group (+). The New Group window appears.

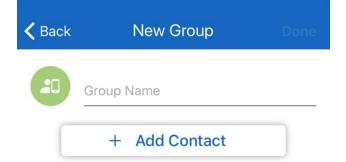




Fig. 5. Group Creation

- 2. In the **Group Name** field, type the group name.
- 3. Add the desired contacts to the group:
 - a. Tap Add Contact.

The **All Contacts** window appears.

🗸 New Group	All Contacts	Done
All Call (All Slot 1	rea 1)	
All Call (Al Slot 2	rea 2)	
Group 1 Slot 1		
Group 2 Slot 1		
Group 3 Slot 2		
Group 4 Slot 2		
Ann		
Anthony		
Michael		
Tom		\bigcirc
Amy		

Fig. 6. Adding Contacts

- b. *(Optional)* In the **Search** field, at the top of the window, type the beginning of a desired contact name to filter the list.
- c. To add a contact to the group, turn on the toggle to the right of its name.
- d. At the top of the window, tap **Done** to accept changes or **New Group** to discard them.
- 4. In the top right corner of the **New Group** window, tap **Done** to create the group.

4.5.2 Editing Virtual Groups

Follow the procedure to to edit a virtual group.

Prerequisites:

Log on to SmartPTT Mobile.

Procedure:

1. In the Contact List, to the right of the desired virtual group name, tap More ($\frac{1}{2}$) \rightarrow Edit. Virtual group profile appears.

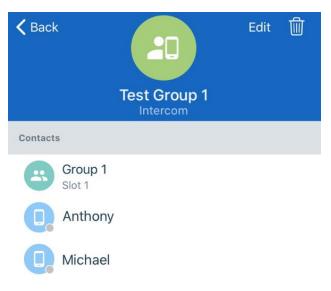




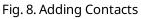
Fig. 7. Virtual Group Profile

- 2. In the top right corner of the window, tap **Edit**. The **Edit** window appears.
- 3. Tap the group name to edit it.

4. Perform one of the following actions:

To remove a group member,	turn off the toggle next to a group member name.	
To add a group member,	perform the following actions:	
	 Tap Add Contact. The All Contacts window appears. 	
	2. <i>(Optional)</i> In the Search field, at the top of the window, type the beginning of a desired contact name to filter the list.	
	3. To add a contact to the group, turn on the toggle to the right of its name.	
	4. At the top of the window, tap Done to accept changes or Edit not to save the changes.	

🗸 New Group	All Contacts	Done
All Call (Slot 1	Area 1)	
All Call (Slot 2	Area 2)	
Group 1 Slot 1		
Group 2 Slot 1		
Group 3 Slot 2		
Group 4 Slot 2		
Ann		
Anthony	у	
Michae	I	
Tom		
Amy		
	-:::::::::	



5. In the top right corner of the **Edit** window, tap **Done** to save changes.

4.5.3 Deleting Virtual Groups

Follow the procedure to to delete a virtual group.

Prerequisites:

Log on to SmartPTT Mobile.

Procedure:

In the Contact List, to the right of the desired virtual group name, tap More () → Edit.
 Virtual group profile appears.

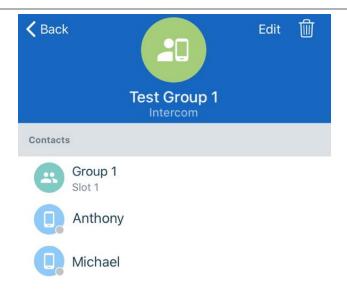




Fig. 9. Virtual Group Profile

- 1. In the top right corner of the window, tap Delete ($\stackrel{\frown}{\amalg}$).
- 2. In the dialog box that appears, confirm deletion.

Contact Information

The document describes the product developed by Elcomplus LLC. The official company's website is <u>www.elcomplus.com</u>.

For contact information with the Elcomplus LLC representatives, see <u>www.smartptt.com/contacts/</u>.

Technical Support

Customer support is provided by Technical Support Center. The official website of the Center is <u>support.smartptt.com</u>.

To contact the support engineer, perform one of the following actions:

- Fill in and submit the <u>support request</u> from the website.
- Email the support request to support@smartptt.com.

In America, customer support is also provided by Elcomplus, Inc. To contact support engineers, use the following contact information:

- Phone: +1 786-362-5525
- Email: <u>miami@smartptt.com</u>
- Mailbox: 290 NW 165th St, Ste P-200, 3rd Flr Miami, FL, 33169, USA

Technical Support Center and Elcomplus, Inc. do not consult on deployment and maintenance of Motorola Solutions products except on settings related to SmartPTT connection and data communication. For the technical support on Motorola Solutions products, please contact an authorized Motorola Solutions representative in your region.

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