Push-To-Talk over Cellular

Android User Guide
Table of Contents

DOCUMENT CHANGE HISTORY ..............................................................................................................3
1. OVERVIEW OF THE DOCUMENT ..................................................................................................4
2. PURPOSE AND SCOPE ....................................................................................................................4
3. INTRODUCTION ..............................................................................................................................4
   3.1. PUSH TO TALK OVER CELLULAR (PoC) .................................................................................4
   3.2. QOOLTALK PUSH-TO-TALK CLIENT ....................................................................................4
4. INSTALLATION AND ACTIVATION ...............................................................................................6
   4.1. SUPPORTED PHONES ...............................................................................................................6
   4.2. INSTALLATION ..........................................................................................................................6
       4.2.1. INSTALLATION VIA GOOGLE PLAY STORE ..................................................................6
       4.2.2. INSTALLATION FROM MEMORY CARD USING AN APPLICATION INSTALLER ...........7
5. CONFIGURATION ..........................................................................................................................8
   5.1. CONFIGURATION BY OTA SETTINGS ......................................................................................8
   5.2. MANUAL CONFIGURATION .....................................................................................................10
6. SETTINGS .......................................................................................................................................11
   6.1. PTT SETTINGS - GENERAL ....................................................................................................11
       6.1.1. INCOMING CALLBACK ..................................................................................................11
       6.1.2. INCOMING CALLBACK BLOCK ....................................................................................11
       6.1.3. AUTO START PTT ............................................................................................................11
       6.1.4. AUTO CONNECT .............................................................................................................11
       6.1.5. WAKE UP SCREEN .........................................................................................................11
       6.1.6. VOICE RECORDING ........................................................................................................11
       6.1.7. APP TO THE FOREGROUND ..........................................................................................11
   6.2. AMPLIFY VOLUME ...................................................................................................................12
       6.2.1. AUDIO ALERTS ...............................................................................................................12
   6.3. DEVICES ..................................................................................................................................12
       6.3.1. SET UP PTT BUTTON ....................................................................................................14
   6.4. KEYGUARD (LOCKSCREEN) DISABLER ..................................................................................14
       6.4.1. SET UP HANDSFREE BUTTON ......................................................................................14
       6.4.2. BLUETOOTH ....................................................................................................................15
7. CONTACTS .....................................................................................................................................16
   7.1. ADDINGS A NEW CONTACT .....................................................................................................17
   7.2. EDIT/DELETE CONTACT ..........................................................................................................17
## DOCUMENT CHANGE HISTORY

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1. OVERVIEW OF THE DOCUMENT

This document is the User’s Guide for the QoolTalk Push to Talk Client developed to be used on terminals with the Android Operating System. It describes step-by-step information about the process of installation, configuration and usage of the QoolTalk Android PoC client.

2. PURPOSE AND SCOPE

This document is intended for the end users of the QoolTalk PoC app, administrators, supervisors and the IT team members.

3. INTRODUCTION

3.1. PUSH TO TALK OVER CELLULAR (PoC)

Push-to-Talk over Cellular (PoC) is a new way of communicating via cellular phone within or between one or several groups of users. The application allows customers to use their cellular phones in a way similar to a “walkie-talkie”. You can speak to a group of people simultaneously, unlike a normal phone were you can talk to only one person at a time. It can be used also to send Instant Messages, view presence status and location of members connected to a given group.

3.2. QOOLTALK PUSH-TO-TALK CLIENT

QoolTalk Push to Talk (PTT) is the first professional Android OS client compatible with OMA standards. It turns your phone or tablet into Walkie Talkie chat functionality. Just press the button once and everyone can hear you talking – release the button and hear others talking back to you. All functionality works in real time and all users receive voice immediately when someone presses the button. Suitable not only for corporate users i.e. taxi drivers, delivery companies, construction workers, truck drivers but also for private users when taking part in sport activities, pursuing hobby, spontaneous sharing information and much more.

QoolTalk Push to Talk client features:

✔ Voice group communication with several users - different type of groups available
✔ Multigroup communication
✔ Instant personal talk - One-to-one call
✔ Instant Messages – 1 to 1 or Group messages - just send message to your group and all connected members will receive it
✔ Instant Personal Alert - callback requests
✔ Contact list and Groups are stored on remote server - not needed anymore to copy
✔ Contacts when you change the handset
✔ Very low data usage 55KB for 1min talk/listen
✔ Accepted list / Blocked list(reject) - managed from the handset
✔ Option to map hardware and headset button for PTT
✔ Option to use a Bluetooth headset.
✔ Nicknames
✔ Group Active Members list - check who is connected to group
✔ Handset configuration by SMS
✔ OS has to support WapPush messages
✔ Able to communicate with all Nokia handsets with native PTT client
✔ Users GPS location
✔ Users status - presence service
✔ Control screen behavior
✔ Bluetooth hands-free supported
✔ Bluetooth PTT button supported
✔ (E)GPRS, WCDMA, CDMA, HSDPA, LTE, Wifi and NAT supported
4. INSTALLATION AND ACTIVATION

This chapter gives detailed instructions about installation, activation, and updates of the PoC app.

4.1. SUPPORTED PHONES

QoolTalk Push to Talk Client for Android OS terminals can be installed and used on devices running Android OS v 2.1 or higher. In order to receive SMS settings (OTA), your device has to support WapPush.

4.2. INSTALLATION

The QoolTalk Push to Talk Client can be installed in different ways as described in the chapters below. Once the installation is finished, the QoolTalk PoC client will be available on the application list on the phone.

4.2.1. INSTALLATION VIA GOOGLE PLAY STORE

Go to Google Play store and search for the QOOLTALK Push to Talk app. Select install and once it’s downloaded, start the application by clicking open. You can exit Google Play Store and choose the app from the widgets on your device. Once you click on the QoolTalk PTT icon, the shortcut will be automatically created on your Home screen.

Note: You must have a Gmail account set up with Google in order to download the QoolTalk Android PTT application from the Google Play store. If you have not signed in yet, you will be be prompted to sign in with your username and password to terminate the installation of the app.

Please rate our application to give us feedback.
4.2.2. INSTALLATION FROM MEMORY CARD USING AN APPLICATION INSTALLER

The client can be installed by transfer to memory card as follows:

1) Allow installation of apps from sources other than the Play Store (non-market applications):
   
   Settings → Applications → Unknown sources
   
   **Note:** Allowing non-market application option depends on the Android OS version. It can be enabled also in:
   
   Settings → Security → in **Device administration** section select **Unknown sources**

2) Copy application file .apk to memory card

3) Open application by selecting **File Manager → Memory card → PTT.apk**
   
   **Note:** Depending on the Android OS version, non-market apps can be found in:
   
   **My Files → All files → sdcard → PTT.apk**

4) Click **Install**

5) Now you can enter the application by selecting **Open**.
5. CONFIGURATION

Once you download the QoolTalk Push to Talk app, go to the Home screen and select the following PTT icon:

5.1. CONFIGURATION BY OTA SETTINGS

OTA settings can be used in order to configure PTT client, if your handset supports WapPush message.

1) Ask your Push-To-Talk service provider to send you OMA OTA settings

2) Once you have received the Push To Talk PTT Configuration received message, open it. The PTT app will start afterwards.

Note: Some devices may display 2 different messages and one of them may not work.

3) Click on the PTT Configuration message.

4) Click on Save button on the right of PTT Configuration message.

5) Two messages will confirm that setting were saved correctly: APN updated and New PTT settings set
5.2. MANUAL CONFIGURATION

Once you have the Push to talk app opened, follow the next steps:

1) Click on the **Configure** button
2) Type **Username, Password, Nickname**
3) Select APN in **Data Bearer**
4) All other settings should be loaded automatically
5) Click **Save** button
6. SETTINGS

Note: Some settings require the client to be closed and reconnected before they take effect.

6.1. PTT SETTINGS - GENERAL
In order to go to the QoolTalk PTT settings go to the main screen of the app, click on handset menu button and select Settings.

6.1.1. INCOMING CALLBACK
Incoming calls like 1to1 or group calls will be blocked when this option is enabled.

6.1.2. INCOMING CALLBACK BLOCK
Incoming call back request (Instant Personal Alerts - IPA) allow you to quickly notify another party that you wish to be contacted by them. Will be blocked when this option is enabled. If you do not want to receive IPAs, enable this functionality to ON.

6.1.3. AUTO START PTT
This option allows you to automatically start the QOOLTALK Push-To-Talk client after switching on the handset.

6.1.4. AUTO CONNECT
By enabling this option you will be logged in to the PTT service when the QOOLTALK Push-To-Talk app is started.

6.1.5. WAKE UP SCREEN
This option will always keep screen on when you are logged into PTT.

6.1.6. VOICE RECORDING
This option enables talk bursts to be recorded. To hear voice records go to calls, click on message icon in the connected group and select Audio tab.

6.1.7. APP TO THE FOREGROUND
It will bring application from background to foreground when someone talks in group.
6.2. AMPLIFY VOLUME
In order to set the PTT call volume, slide the bar to achieve the desired level of amplification volume speaker (0-20dB). It is set by default to 5 dB.

Note: If you set the volume to maximum (20dB), the sound will be loud however the quality of voice may be affected.

The volume can be also increased/decreased to the desired level by using volume up/down keys which are located on the left or right side of the terminal.

6.2.1. AUDIO ALERTS
Turn on/off as desired audio alerts for different audio channel behaviour (Floor granted, release, taken and revoke).

6.3. DEVICES
In the Device tab, you can select which button will be used for PTT.

1) Click on the handset menu button and select Settings.
2) Select Devices tab
Chapter 6: SETTINGS

PTT Settings
- Handset
  - Set PTT Button
    - Press and hold
    - Single press
    - Keyguard
      - Enabled
  - Wired Headset
    - PTT Button Handsfree is 79
    - Set Handsfree Button
    - Press and hold
    - Single press
    - Bluetooth Headset (adapter turned off)
      - Connect automatically
      - Use Bluetooth audio
      - Use Bluetooth button

Cancel
- Press and hold
  - Single press
  - Keyguard
    - Enabled

Set Handsfree Button
- Press and hold
  - Single press
  - Bluetooth Headset (adapter turned off)
    - Connect automatically
    - Use Bluetooth audio
    - Use Bluetooth button

Enabled
- Disabled when app is running
- Disabled when app is visible
6.3.1. SET UP PTT BUTTON

1) Click on Set PTT Button

2) Press and hold button which you would like to use for PTT, i.e. Volume up side button

3) Release button and the change will be automatically applied

Note: Additionally, PTT on screen button can be used. It will be automatically enabled. If you wish to disable it, go to PTT settings.

6.4. KEYGUARD (LOCKSCREEN) DISABLER

Disables the keyguard (lockscreen) so you don't have to hit menu or swipe to unlock the phone.

You can choose from:
- Enabled
- Disabled when app is running
- Disabled when app is visible.

6.4.1. SET UP HANDSFREE BUTTON

There are two ways to set up the Handsfree button and not all mobile phones support headsets properly.

Press and hold – with this option, you press and hold the headsets button in order to speak and release button to release the talk burst (stop talking).

Single Press – make a single press in order to start talking and another single press to release the talk burst.

1) Connect Headphones to the handset
2) Enable one or both options listed above
3) Click on **Set HandsFree Button**
4) Press and Hold the button on your headphones
5) Release the button and the change will be automatically applied.

### 6.4.2. BLUETOOTH

Go the QoolTalk PTT settings and open Devices tab to see bluetooth settings options:

- **Connect automatically**: Select this option to connect the Bluetooth (BT) device when starting the PTT client.
- **Use Bluetooth audio**: It gives you the option to use the device microphone and speaker bluetooth.
- **Use Bluetooth button**: It gives you the option to use the Bluetooth device button as a Push to talk button (Not compatible with all bluetooth accessories).
- **RSM-55 support**: This option enables you to use PTT app together with Savox BT RSM-55 remote speaker microphone which is a previous version of Promate BTR-155.

### A. BLUETOOTH HANDSFREE SUPPORT:

Your phone shall be paired with the BT device according to the specification of the BT handsfree.

**NOTE**: Each terminals may work in different way.

### B. HOW TO ENABLE BT SUPPORT IN THE PTT CLIENT:

- **Connect automatically**: Select this option to connect the Bluetooth (BT) device when starting the PTT client.
- **Use Bluetooth audio**: It gives you the option to use the device microphone and speaker bluetooth.

### C. QUICK GUIDE BASED ON THE SAVOX PROMATE BTR-155:

In order to use Savox BTR-155 device together with the QoolTalk Android PTT app, follow the next steps:

1. Enable BT in your phone settings
2. Turn on the Savox BT device pressing the button (as circled on the picture below) long enough so that you see changing red/blue lights on the BTR-155 RSM. You can pair the Savox BT accessory with your phone now.

3. Go to the QoolTalk PTT app settings => Devices and enable the following options: Connect automatically, Use Bluetooth audio, Use Bluetooth button.

7. CONTACTS
The Contact list is stored externally on the remote server called XDMS. Contacts are automatically loaded when PTT
client registers to PoC server. It is not needed any more to copy contacts when you change the handset. Contacts can be added, modified and deleted using the options in menu. All changes are automatically updated on remote server.

7.1. ADDED A NEW CONTACT
1) Once you have accessed to the PTT app, go the Contact tab
2) Click on phone Menu button → Add Contact
3) Type a Nickname for contact
4) Username – usually this is MSISDN (the telephone number that is assigned to a mobile user), part of user’s SIP URI, for instance 618218312@poc2.QoolTalk.com
5) Domain – if it is different than default one, for instance 618218312@poc2.azett.com
6) Optionally user can be added to Accepted or Blocked list by selecting those options
7) Click Save button to finish adding new user
Contact will be automatically updated to remote server and confirmation message will be displayed.

7.2. EDIT/DELETE CONTACT
1) Once you have accessed to the PTT app, go to the Contact tab
2) Click on button on the right of your contact to display user menu
Delete contact:
3) Click on the delete button, irst from the left and confirm if you want to remove contact
8. GROUPS

The Group lists are stored on external remote server XDMS. They are automatically loaded when PTT client logs into the PoC server. It is not needed any more to copy groups when you change the handset. Groups can be created, modified and deleted using options in menu. All changes are automatically updated on the remote server.

Edit contact

4) Click on the edit button, second from left
5) Now you can edit Nickname, add contact to Accepted or Blocked list.
6) Once it has been edited, save it by clicking the Save button.
8.1. GROUP TYPES
There are two types of PoC groups distinguished:

a. Chat Groups (PTT Channel, My channel)
Chat PoC Group is a persistent Group in which a PoC User individually joins to have a PoC session with other PoC Users, i.e. the establishment of a PoC Session to a Chat PoC Group does not result in other members of the Chat PoC Group being invited.

PoC Chat Closed group - this type of group contains the PoC Group Members (ACL) stored in XDMS which are allowed to join to group.

b. Prearrange Group (PTT Group, My network Group)
A Pre-arranged PoC Group is a persistent PoC Session Identity that has an associated set of PoC members. The establishment of a PoC Session to a Pre-arranged PoC Group results in all members being invited. This type of group contains the PoC Group Members list (ACL) stored in XDMS of users which can be invited or are allowed to join to group.

Depending on global PoC server configuration Pre-arranged group can be initiated:
• only by group owner
• by any group member

Pre-arranged Groups are divided into:
• 1-to-Many - it’s a standard pre-arranged group session, any user can talk and all members are receiving voice.
• 1-to-Many-to-1 (Key Participant) - in this kind of group, one user of the group behaves as the Key Participant. Key Participant user can talk and listen from all users but all others members receive voice only from key participant.
• Ad-hoc groups – Nokia protocol: Ad-hoc PoC Group was invented by Nokia and behaves in similar way as Open Chat Group. Ad-hoc group can be created only by Nokia proprietary clients. It is not stored in XDMS and is saved only in handset. There is no members list. Any user can connect to this kind of group. Android client cannot create this kind of group but can receive group advertisement and connect.

Nokia Ad-hoc groups are divided into:
• Public – any user can send group advertisement (group settings) to any other user.
• Private - only user which created group can send advertisement (group settings) to other users.
• Instant Ad-hoc (Talk to many, Make PTT Group Call) - Instant Ad-hoc is a group created on fly. It is not stored in XDMS. The list of members is selected from handset contact list and handset notifies PoC server which users should be invited.
• Instant Personal Talk (1-to-1 calls) - in an Instant Personal, user A can establish PoC session with user B.

Nokia proprietary protocol:
In Nokia proprietary protocol direct 1to1 session between 2 users in media server using RTP protocol is established. In OMA protocol for 1to1 calls ad-hoc group call is used to which user A invites user B. When this session is established, it is possible to invite other users to join to session and create a group call.
Note: QoolTalk PoC server contains mechanisms which allow to establish 1to1 calls between Nokia proprietary protocol and OMA protocol.

8.2. CREATE A NEW GROUP

1) Once you have opened the QoolTalk PTT app, go to the Groups tab
2) Click on the Menu button of your phone and proceed by selecting Create Group
3) Type a Group Name
4) Group URL will be generated automatically
5) Select group type, for example Chat
6) Optional: select if PTT client should connect to this group automatically Auto-Connect
7) Optional: select if this group will be used as Default Group
8) Click on View Group Members in order to add contact that will be able to connect to this group
9) Click on Add members button
10) Mark contacts that will be added to a group and click Add selected
11) Now you can see contacts which belong to this group. You can remove unwanted contacts by clicking bin button on the right of contact.
12) Click handset return button in order to return to group view
13) Click Save button. Group will be created and stored automatically on remote server.
8.3. ADD EXISTING GROUP

1) Once you have connected to PTT, go to the Groups tab.

2) Click on phone the Menu button → Add existing group

3) Type Group Name

4) Type Group URL, for example sip:QoolTalkdemo.QoolTalk@poc2.QoolTalk.com

5) Select group type, for example Chat

6) Optional: select Auto Connect if PTT client should connect to this group automatically

7) Optional: select if this group will be used as Default Group
8) Click the **Save** button. The group will be saved automatically on remote server.

---

8.4. **DELETE/EDIT GROUP**

Once you have connected to PTT, go to the **Groups** tab, click on **button on the right of your contact to display user menu**

**To Delete Group:**

1. Click on the bin button, first from the left and confirm if you want to remove the contact

**Edit Group**

1. Click on the **edit** button, second from left

2. Now you can edit Group Name, change type of group, add contacts to this group.
8.5. SEND GROUP ADVERTISEMENT

In order to share your group details, you can send group advertisement to other connected users.

1) Once you have connected to PTT, go to the Groups tab.

2) Click on button on the right of your contact to display user menu

3) Click on the Group Advertisement button, second from the right

4) Mark users to which you want to send group advertisement and click on Send advertisement. Notification will be displayed if message was delivered successfully.
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Chapter: 8. GROUPS
9. INSTANT MESSAGES

QoolTalk Push-To-Talk client allows to send/receive 1-to-1 and group messages between users which are connected to PoC server and/or given group.

Handset will make bip message after it arrives. Messages can be found:

1) Once you have connected to PTT, go to the Messages tab.

To read message:

2) Click on the message button. **Note**: green represents a new unread messages and red represents read messages.

To delete message

3) Click the **bin** button on the right and confirm or click handset menu button and **Remove All**.
9.1. 1-to-1 INSTANT MESSAGES

This option allows to make 1-to-1 chat with other user. In order to check received message take the steps as described above. To send a new 1to1 message follow the steps below:

1) In main menu click Connect and go to the Contact tab

2) Click on button, on the right of your contact to display user menu

3) Click on the chat button, first from the right

4) Type your message and select Send.
9.2. GROUP MESSAGES

Follow below steps in order to send Instant Message to all users connected to a given group. You need to connect to the group first before you can send/receive messages in a group (chapter 10).

1) In main menu click Connect and go to the Groups tab

2) Connect to a group by pressing the button.

3) Click on the Group IM button, second from the right

4) Now you can send and receive chat messages in this group
10. MAKE AND RECEIVE THE PUSH TO TALK CALL

This section tells how to make group and 1to1 Push to Talk calls and how to check Group Active Members list.

10.1. ONE TO ONE CALL – 1-to-1

If you would like to make a call to another user from the contact list and also from Active Member List, follow the next steps:

1) In main menu click Connect and go to the Contact tab

2) Click on the button, second from the right on a given contact

3) The user will be invited to 1to1 call. If he answers then you can send voice and text messages by pressing PTT button.
10.2. TALK TO MANY – AD-HOC GROUP CALL

1) In main menu select **Connect** and go to the **Contact** tab

2) Go to the menu → **Talk to Many**

3) Select contacts you wish to speak to in a group and press **phone** button on the right. You can press **PTT button** to talk after you are connected.

**Note:** you will be able to talk with users which answer this call, similar to 1to1 call.

10.3. GROUP CALL AND ACTIVE MEMBERS LIST

In QoolTalk Push-To-Talk several group types are available and they are described in the **Group Types** chapter. Group call allows you to send real time voice messages to even 100 users at the same time. You also receive responses from them. At any time you can check who is available in a group by checking Active Members button.

1) In main menu select **Connect** and go to the **Contact** tab

2) Select a group you will to speak to and select , second from the right

After you connect to the group, you can see the number of its participants i.e. 3 and type of group i.e. Chat.
Group box will change colour to blue when someone is talking. As shown in the picture below, the Nickname or MSISDN will appear when someone starts talking.

Group box will change colour to green when you start talking to others.

**Group Active Members List**

At any time you can check Active Members List by clicking AMQ button, second from left.

From this list you can also:

➢ save user to contacts
➢ make 1to1 call
➢ send callback request (instant personal alert)
➢ send 1to1 chat message
11. PRESENCE – USER’S STATUS

Presence – user’s status: QOOLTALK Push-To-Talk Client for Android OS supports presence functionality together with geographical location. When presence is enabled, the client automatically subscribes to presence information of all users from contact list.

Presence functionality is not supported by all mobile operators and all Push-To-Talk handsets.

User Location: QOOLTALK PTT client uses build in OS location functionality and allows to use Wireless Networks (determined by Wi-Fi and/or mobile networks) or GPS satellites to determine handset position.

By default user’s location is set to send location every 60 meters and every 5 seconds. It can be changed manually in the PTT settings. User location will be accurate to 9, 20, 50, 90, 200 meters, depends which method is enabled and signal strength.

11.1. ENABLE/DISABLE PRESENCE

Presence functionality can be enabled/disabled only on application startup.

1) Start the QOOLTALK Push-To-Talk client.
2) Click on handset menu button and click on Account Configuration.
3) Click once again handset menu button and click Show advanced to display all options.
4) Slide Presence support to ON and press the Save button.

11.1.1. VIEWING PRESENCE STATUS OF USERS

The presence information of other users is visualized by different colours in the contact list.

The list below presents examples of different presence statuses.

➢ Unknown – user did not publish status, was offline for long time or does not exist

p1000

Contact List

Unknown

Save
11. PRESENCE – USER'S STATUS

➢ Offline – user logged out from Presence Server

userA

➢ Online – person is available

userA

➢ Online with location – person is online and publishes own location

userA

➢ Do Not Disturb (DND) - person does not want to be disturbed but can receive calls

userA

11.1.2. CONFIGURE PRESENCE STATUS

1) Click on handset menu button and Status.
2) Choose your presence status.
3) Select your Presence status, 3 options are available
   - Online
   - Do not disturb
   - Invisible - your status will not be published
4) Your state will have the visible presence in the notification bar.

11.1.3. LOCATION SETTINGS

1) Click on the handset menu button and go to Settings.
2) Select the Location tab.
3) **Send location** – will send your geographical location to other users
4) **Use GPS** – will send your geographical location using GPS module, Note: battery consumption can be higher

12. OTHER

12.1. FAST FLOOR
Enable this option if you want the channel to speak nothing but pressing the button, this option is enabled by default.

1) Start the client **QOOLTALK Push-To-Talk**
2) Click the phone **menu button** and click **Settings account**.
3) Click the phone **menu button** and click **Show Advanced** to display all options.
4) Select the **Fast floor** and click the **Save** button.

**Note**: In order to enter Advanced Settings you have to disable Auto-connect option in the PTT Settings and log out from PTT.

12.1.1. WIFI SUPPORT
To use Android PTT client with WiFi, it is needed to enable it and configure it.

- Go to handset **Settings → Wireless & networks → Wi-Fi settings**
- Enable WiFi, search and connect to your network
- Click menu button → **Advanced**
- Change Wi-Fi sleep policy to: **Never** it will prevent WiFi to go to sleep mode and disconnect from PoC server.

**Note**: In the PTT client Account settings, APN has to be selected as ANY.

12.1.2. NAT DETECTION
NAT detection is enabled by default. In order to disable it:

1) Start the client **QOOLTALK Push-To-Talk**
2) Click the phone **menu button** and click **Settings account**.
3) Click the phone **menu button** and click **Show Advanced** to display all options.
4) Deselect the **NAT Detection** and click the **Save** button.
## Glossary of Terms

<table>
<thead>
<tr>
<th>Terminology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chat</td>
<td>Type of a group that allows users to connect to the group by themselves</td>
</tr>
<tr>
<td>Closed</td>
<td>Mode of the PoC group where only users who are in the Group ACL can connect to the group.</td>
</tr>
<tr>
<td>MSISDN</td>
<td>Mobile Station ISDN number is the telephone number that is assigned to a mobile user. This term is exchangeable to Username term.</td>
</tr>
<tr>
<td>Open</td>
<td>Mode of the PoC group where users who are not in the Group ACL can connect to the group.</td>
</tr>
<tr>
<td>PoC</td>
<td>Push to talk over Cellular</td>
</tr>
<tr>
<td>Prearranged</td>
<td>Type of a group where the owner of the group has to be connected first. The server will follow by sending invitations to other users in the group.</td>
</tr>
<tr>
<td>PTT Client</td>
<td>Push to talk app</td>
</tr>
</tbody>
</table>