Roger Covert System
Technical Note
Configuration for radios and PTT-apps

PHONAK communications

1. Content

2. Introduction

This document describes how to configure the Roger Covert System and radios or PTT-apps based on Android to work together.

To be compatible with the listed PTT-apps or radios, please make sure to have the latest version of the Security Configuration Application (SCA) installed on your computer and have proceeded with the update of your Roger Covert C firmware.

3. Important notice after firmware update

After a firmware update of the Roger Covert C to release 1.3.44126, the configuration of your device is restored except the Bluetooth custom command which is reset.
So after having updated your device, go in the configuration tab to select the required Bluetooth custom command and write in the unit.

4. Important notice for pairing process

During the pairing process, in some cases the radio or mobile phone is not able to read the Bluetooth name of the Roger Covert C and display only its Bluetooth MAC address.
In this case, choose the device with the MAC address starting with 00:0F:59 corresponding in all cases to a Roger Covert unit.

5. Important notice for PTT-apps

The simultaneous usage of phone calls and PTT-Apps is not recommended due to possible audio routing mismatch and undesired triggering of PTT-App when triggering phone functionalities (picking call, ending call, redial...) with Roger remote control.

When a PTT-app is in use, it's recommended to disable the redial function of the Roger Covert unit to avoid unexpected behaviors at APPs level.

It's recommended to put your smartphone on vibrator mode to avoid to have any sound emitted by the speaker of the smartphone.

Since Android 12, the "Nearby devices" permission is mandatory to have audio and PTT working properly with a Bluetooth device.
To configure this permission, go into the "App info" from the main settings menu of Android, search your PTT-App and enable "Nearby devices" in the permission section.

The Roger Covert C can't trigger the PTT command on Iphone devices, as they are using Bluetooth low energy for this purpose.
A workaround is to use the Roger Covert C only for audio and a third party PTT like the PTT Smart button from Aina Wireless.
(https://www.ainaptt.com/ptt-smart-button/)
Configure your Roger Covert System as below:

Bluetooth custom command	None ▼
Push To Talk CH1	☐
End of call notification	☐
Accept call notification	☐
Redial function	☑
Reject call function	☑

6. Important notice for radio

To use the Roger Covert unit together with radio through Bluetooth, licenses may be required, please get in touch with your local radio representative if any is missing:
- For usage with Motorola Tetra radio, the following Motorola licenses need to be activated on each radio:
  o BT Connectivity
  o BT Control
  o BT Audio & Object Push 626
  o ST Series Covert Solution (for Covert Mode on ST series radios)

- For usage with Motorola MOTOTRBO radio **DP3441e / DP3661e / DP4x01e**, the Motorola license "**HKVN4465A Mototrbo Bt Accessory Commands Radio**" need to be activated on each radio.

7. Roger Covert unit configuration for PTT-apps

To set a Roger Covert unit (all variants) to work with an application, the following parameters need to be configured:

1. Bluetooth custom command
   Select the APP you will use in the drop down list to set the dedicated "Bluetooth PTT command".

2. Bluetooth Device Name
   When an APP is selected, a prefix is automatically added to the "Bluetooth Device Name". This prefix is mandatory to ensure the recognition of the Roger Covert unit by the APP. In consequence, only the last 9 characters of the Bluetooth Device Name can be customized.

3. "Push To Talk CH1" shall be unchecked to avoid interaction with APP in case of phone call

4. Call notification shall be unchecked to avoid misleading notification due to incorrect notification from APP

End of call notification	☐
Accept call notification	☐

5. Summary of recommended settings

Roger Covert C / Dual C Configuration				
Roger receiver configuration				
Roger Remote C / Dual C configuration				
Firmware update				
SUPPORT				
How to use SCA				
Parameters description				
Help & contact				

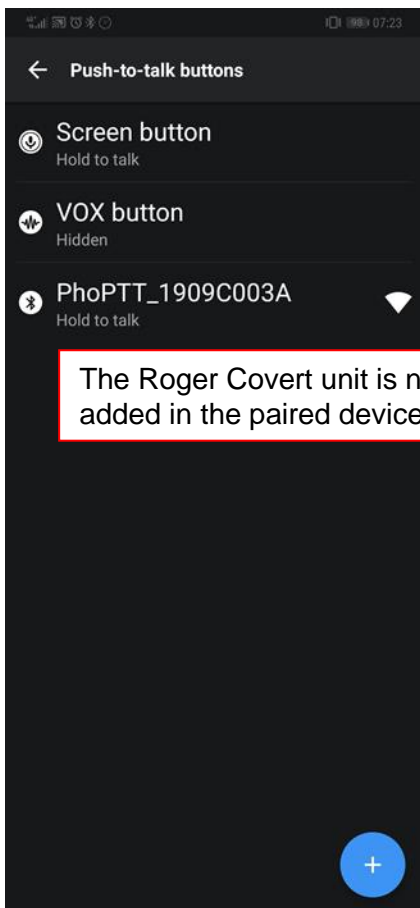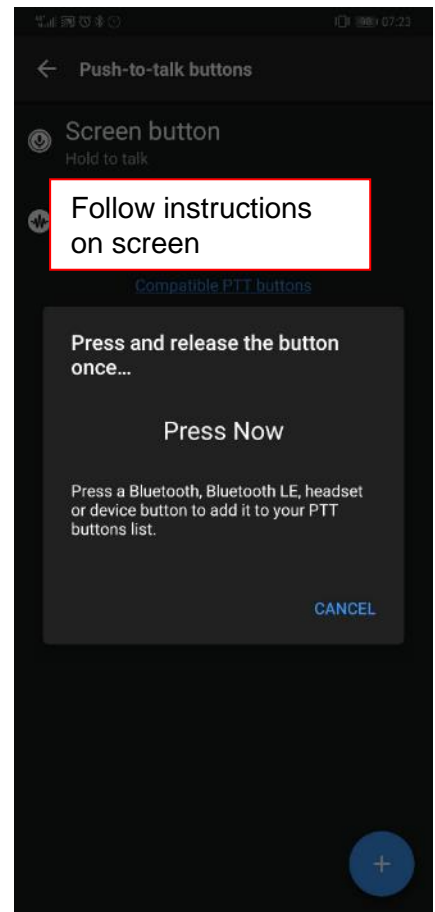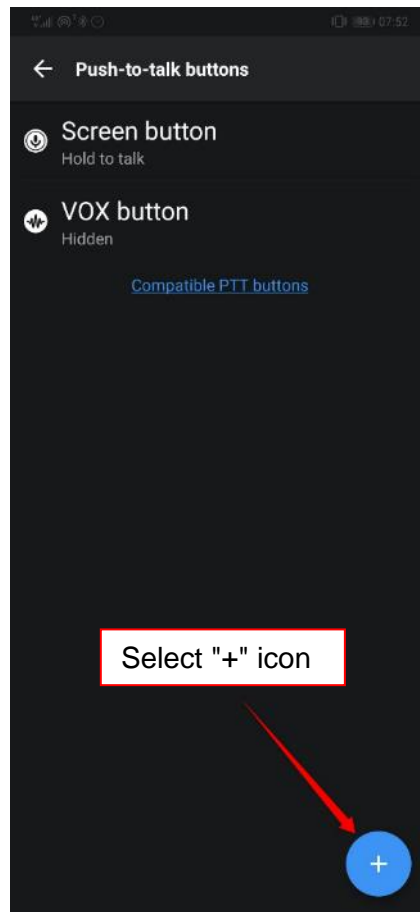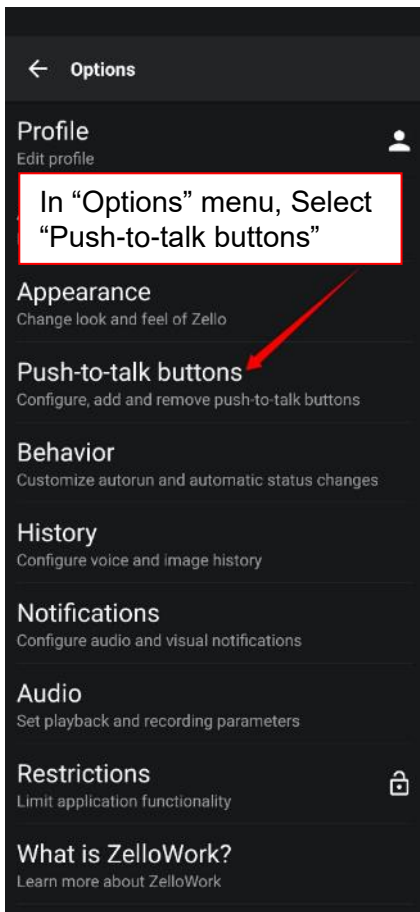|		
📂 Open	💾 Save	
Client first name		
Client name		
Bluetooth Device Name	PhoPTT_Roger Cov	
Bluetooth MAC address		
Microphone sensitivity	⦿ normal (default)	○ high
Roger beep	☐	
Volume adjustment beep	☑	
Vibrator control	☑	
Tone feedback	☐	
Tone delay	○ 0.5" ⦿ 1" (default)	○ 2"
Bluetooth link notification	☑	
Bluetooth custom command	Zello ▾	
Push To Talk CH1	☐	
End of call notification	☐	
Accept call notification	☐	
Redial function	☐	
Reject call function	☑	

6. If the Roger Covert unit was previously connected to a mobile phone, as the "Bluetooth Device Name" has changed, a new pairing must be done with the mobile phone.
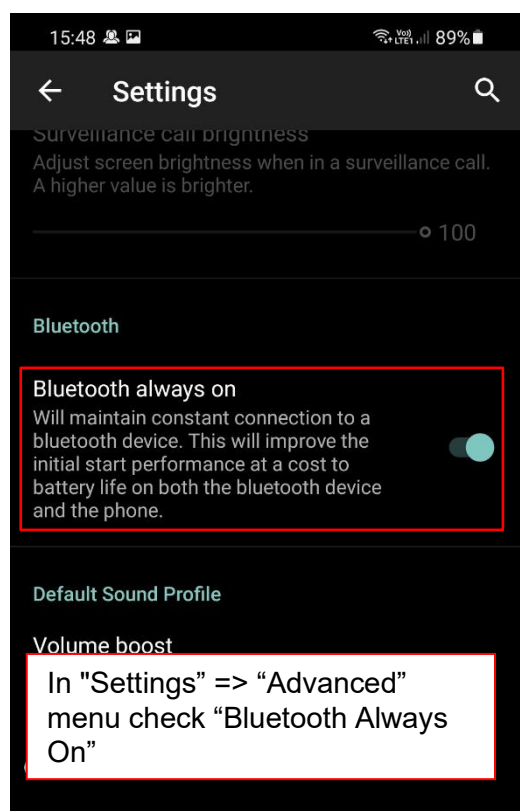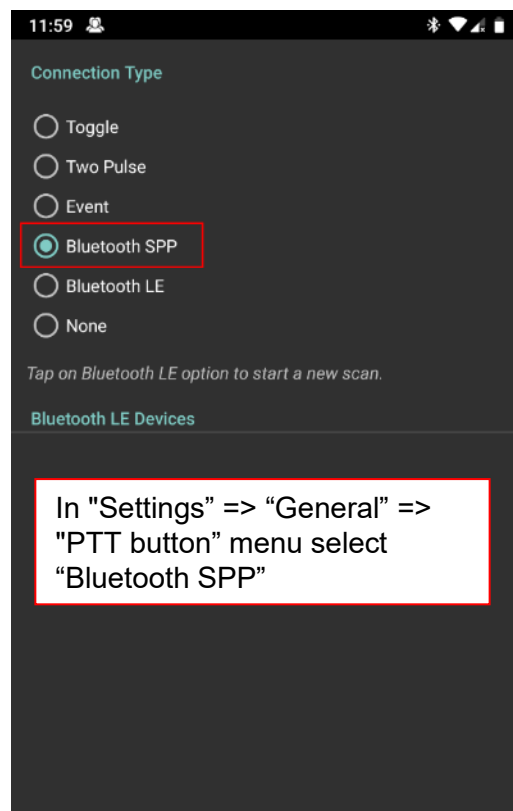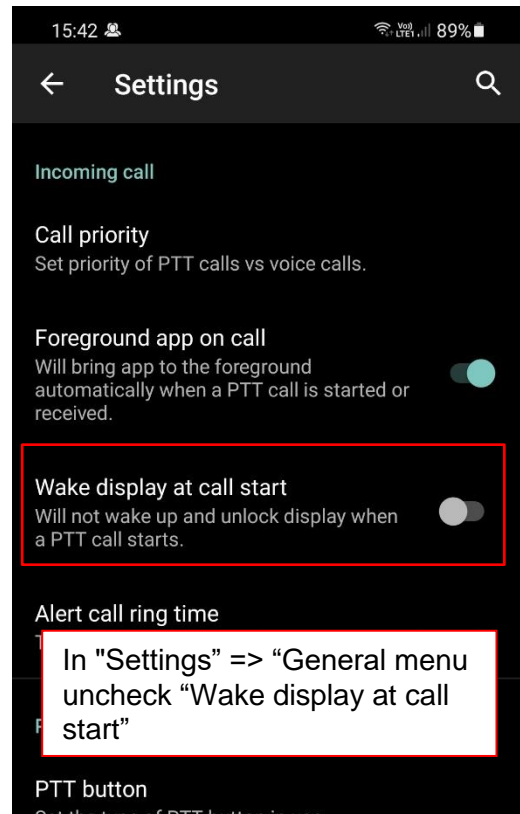
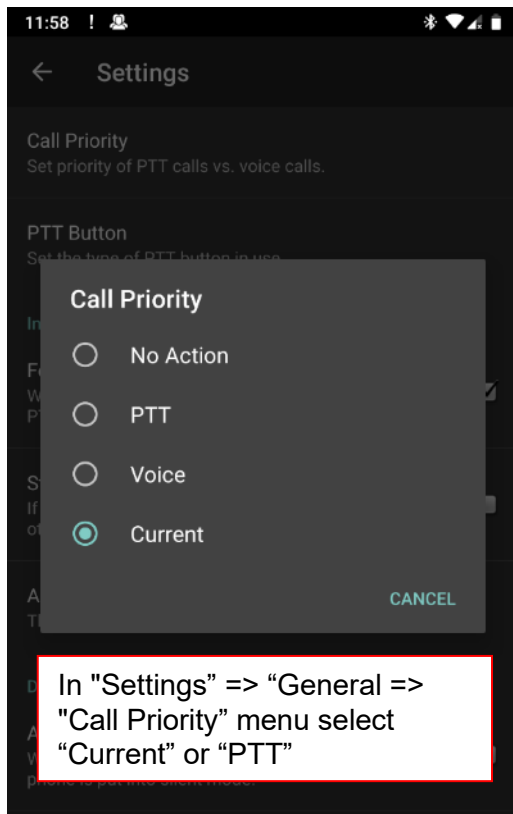# 8. PTT-apps settings

8.1. Zello

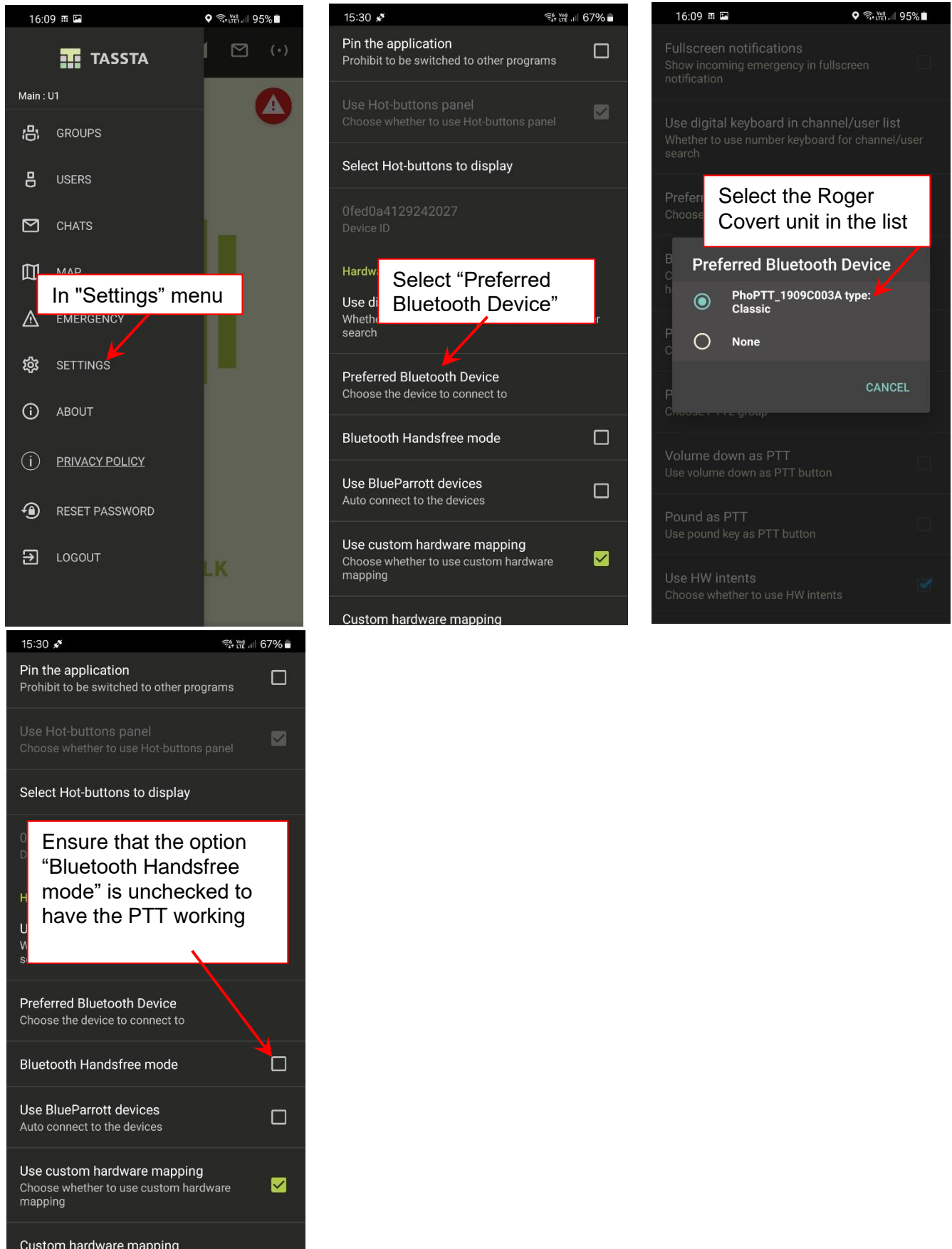Before starting the configuration, please read the important notice for PTT-apps (section 5.)

Select "Options" menu

Select "Audio" menu

Uncheck the option "Apply audio mode only when a message is set or played"

In "Legacy Bluetooth mode" select "ON"

Options

Profile
Edit profile

In "Options" menu, Select
"Push-to-talk buttons"

Appearance
Change look and feel of Zello

Push-to-talk buttons
Configure, add and remove push-to-talk buttons

Behavior
Customize autorun and automatic status changes

History
Configure voice and image history

Notifications
Configure audio and visual notifications

Audio
Set playback and recording parameters

Restrictions
Limit application functionality

What is ZelloWork?
Learn more about ZelloWork

Push-to-talk buttons

Screen button
Hold to talk

VOX button
Hidden

Compatible PTT buttons

Select "+" icon

Push-to-talk buttons

Screen button
Hold to talk

VOX button
Hidden

Compatible PTT buttons

Follow instructions
on screen

Press and release the button once...

Press Now

Press a Bluetooth, Bluetooth LE, headset or device button to add it to your PTT buttons list.

CANCEL

Push-to-talk buttons

Screen button
Hold to talk

VOX button
Hidden

PhoPTT_1909C003A
Hold to talk

The Roger Covert unit is now
added in the paired device list

8.2. ESChat

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

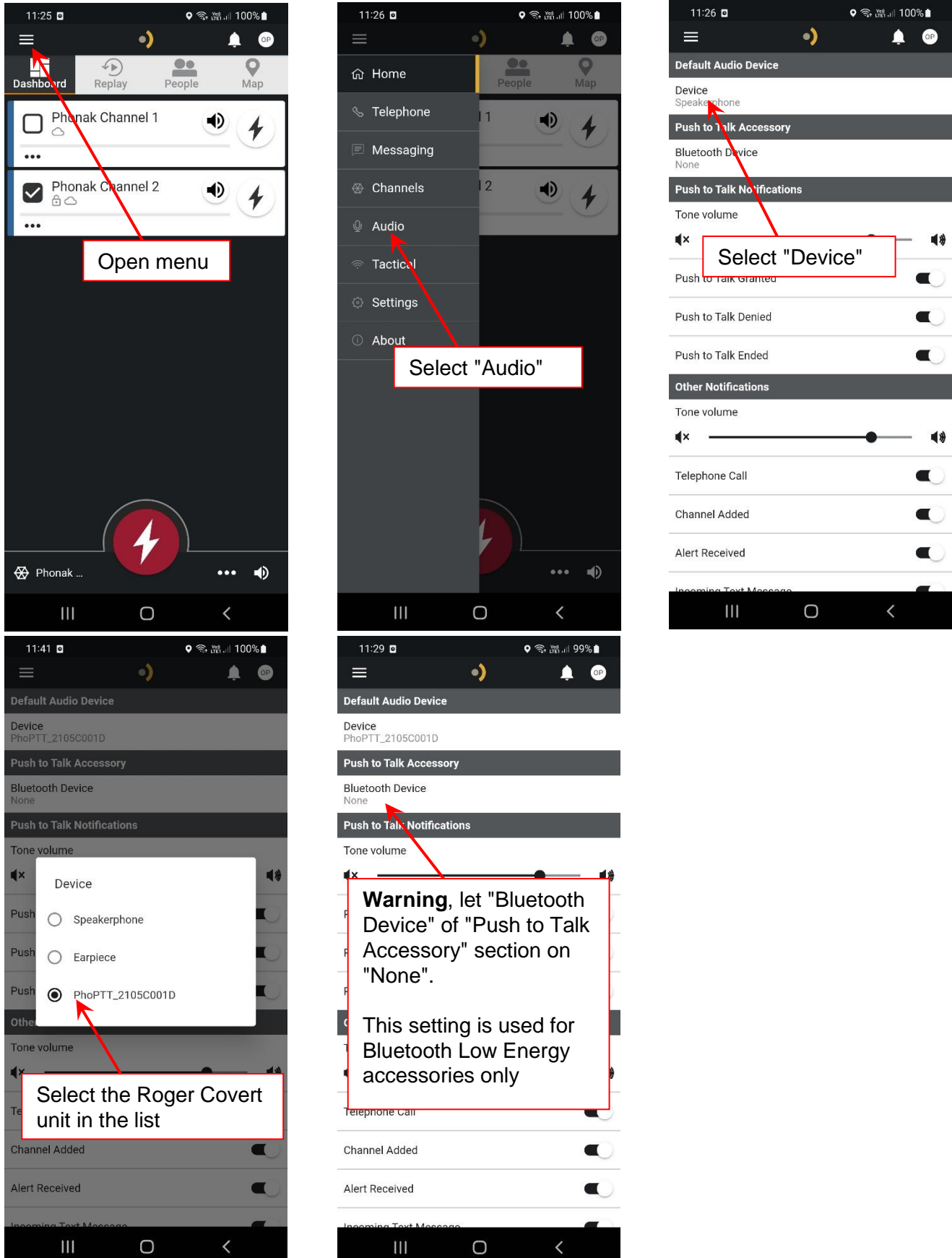In "Settings" => "General => "Call Priority" menu select "Current" or "PTT"

In "Settings" => "General menu uncheck "Wake display at call start"

In "Settings" => "General" => "PTT button" menu select "Bluetooth SPP"

In "Settings" => "Advanced" menu check "Bluetooth Always On"

8.3. TASSTA

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

In "Settings" menu

Select "Preferred Bluetooth Device"

Select the Roger Covert unit in the list

Ensure that the option "Bluetooth Handsfree mode" is unchecked to have the PTT working

8.4. GroupTalk

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

Check "Bluetooth audio"

Check "Prioritize phone calls"
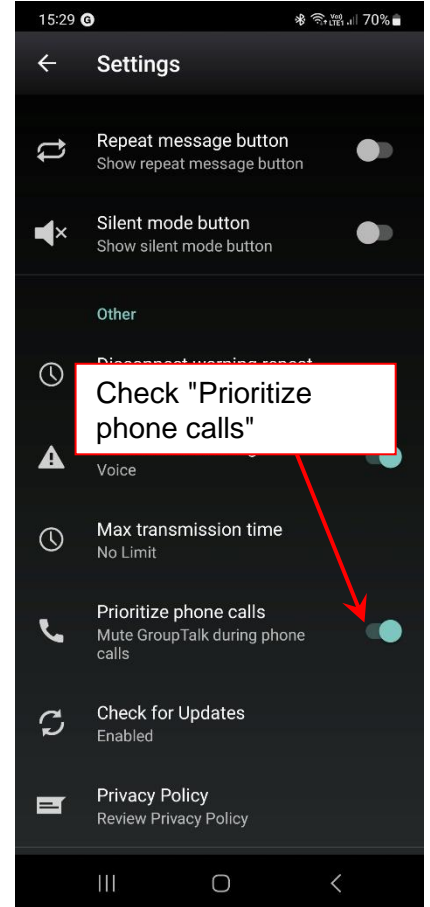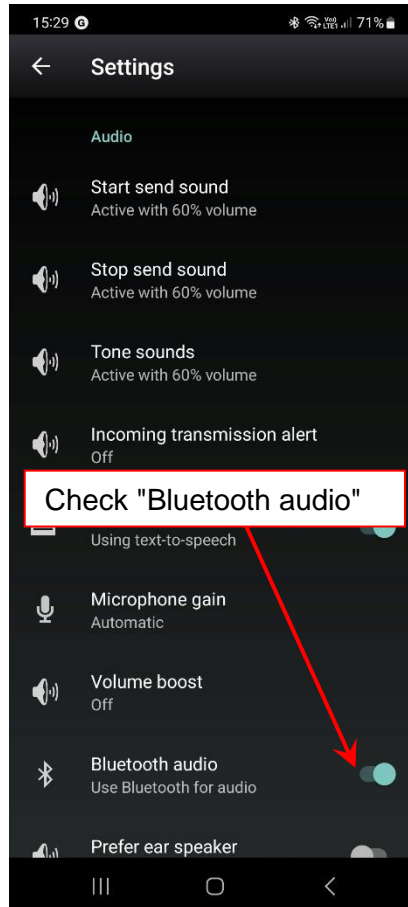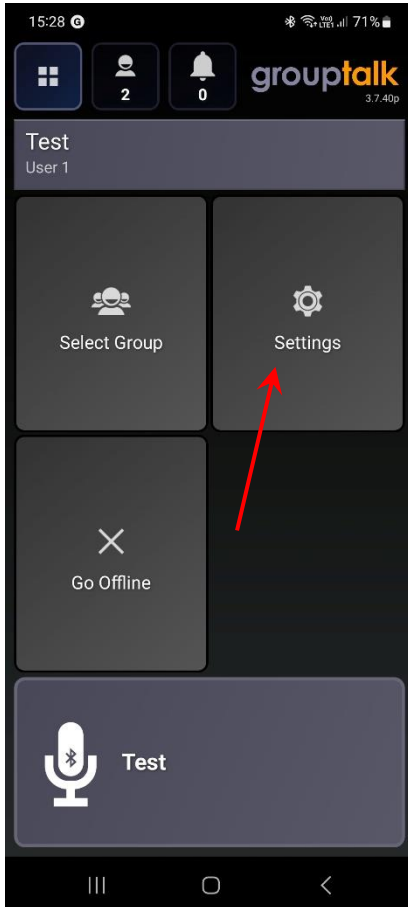
8.5. Instant Connect Enterprise

Before starting the configuration, please read the important notice for PTT-apps (section 5.)
Compatible with Instant Connect Enterprise version 3.2.1 and above.

Open menu

Select "Audio"

Select "Device"

Select the Roger Covert unit in the list

Warning, let "Bluetooth Device" of "Push to Talk Accessory" section on "None".

This setting is used for Bluetooth Low Energy accessories only

8.6. Motorola Wave

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

Open menu

Select "Settings"

Talkgroup Scan

Use Wi-Fi

Manual Dial

Settings

Tutorial

About

Background Mode
Keep app in background for PTT calls.

Activate "Background Mode"

Call Priority
Set priority for incoming calls.

Display Name
This is the name others will see when you communicate with them.

My PTT Number

Activate "Use Bluetooth"

Capacity
Show available capacity to store Contacts and Groups.

Use Bluetooth
Use Bluetooth for PTT calls

Contact Sorting
Set contact sorting to alphabetical or by availability

History Sorting

Settings

Use Bluetooth
Use Bluetooth for PTT calls

Contact Sorting
Set contact sorting to alphabetical or by availability

History Sorting
Sort history from newest to oldest or oldest to newest.

Auto Start
Start PTT automatically every time handset is turned on.

Automatic Download
When enabled, message attachments are automatically downloaded.

Advanced Settings
Additional settings for advanced setup

PTT Key
Alternate PTT Key available inside the app.

Select "Advanced Settings"

Restore application settings to their factory defaults.

Logout
Logout from PTT

Advanced Settings

Audio Profile
Adjust only if you are having audio problems

Accessory Compatibility
Set the wired PTT accessory compatibility mode

Select "Accessory Compatibility"

Advanced Settings

Audio Profile
Adjust only if you are having audio problems

Accessory Compatibility
Set the wired PTT accessory compatibility mode

Accessory Compatibility

◉ Mode 1

◯ Mode 2

◯

Select "Mode 1"

OK

8.7. Motorola WAVE Push-to-Talk (PTT) (5.12+) - WAVE Mobile Communicator

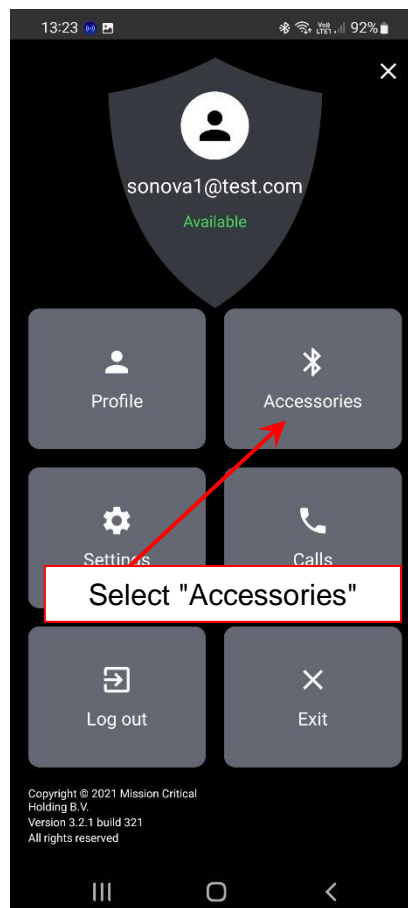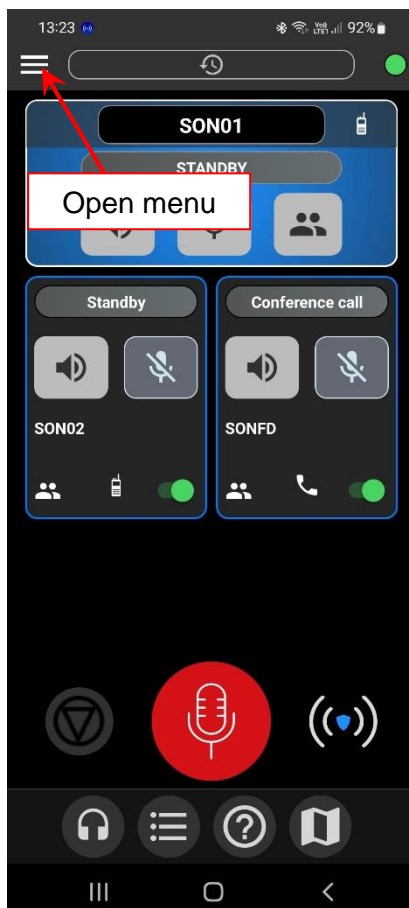Before starting the configuration, please read the important notice for PTT-apps (section 5.)

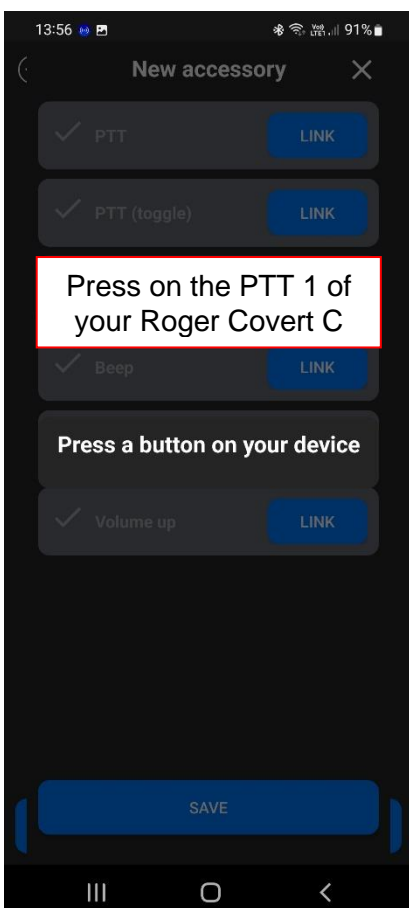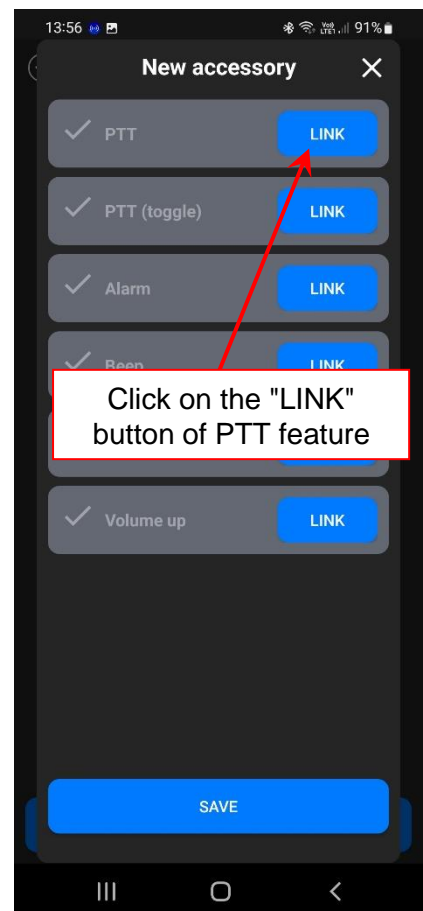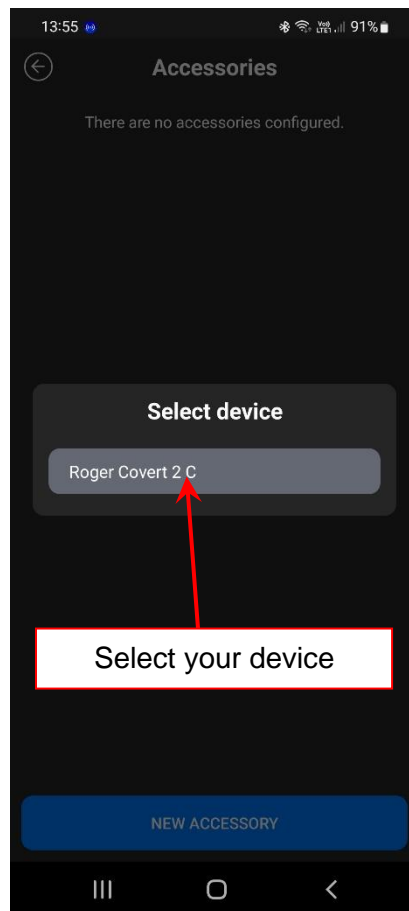**Note:** Since Android 12, the Roger Covert System is only compatible with the version 4.1.12 and above of the PTT-app Motorola WAVE Push-to-Talk (PTT) (5.12+) - WAVE Mobile Communicator.

1. Bluetooth custom command
   On the "Bluetooth custom command" section of SCA, select "Generic 2" and configure the phone features as below:

Bluetooth custom command	Generic 2 ▼
Push To Talk CH1	☐
End of call notification	☐
Accept call notification	☐
Redial function	☐
Reject call function	☑

2. Bluetooth Device Name
   Edit the Bluetooth Device Name to add the prefix "PhoPTT_". This prefix is mandatory to ensure the recognition of the Roger Covert unit by the APP. In consequence, only the last 9 characters of the Bluetooth Device Name can be customized.

	Prefix	Customizable part
Bluetooth Device Name	PhoPTT_	Roger Cov

3. Pair the Roger Covert System to the smartphone and configure Bluetooth accessory in Wave application as described on the next pages.

Screen 1 (top-left):

08:08

WAVE

Sonova Channel 1

Sonova Channel 2

Open menu

Screen 2 (top-center):

08:08

WAVE

App Settings

About

Send Feedback

Rate this app

Sign Out - Sonova User 2

Sonova Channe

Sonova Channe

Select
« App Settings »

Screen 3 (top-right):

08:08   Application Settings

Talk Group Activation

Audio Route Selection
Speakerphone

Additional Audio Gain ☐

ACCESSORIES

Use Wired Headset ☐

Use Bluetooth Device

Go to
« Audio Route Selection »

Share Location ☐

MAP

Map Type
Normal

Map Traffic Overlay ☐

SOUNDS AND VIBRATION

Screen 4 (bottom-left):

08:09   Audio Route Selection

○ 🔊 Speakerphone

○ 📞 Earpiece

◉ ✳ PhoPTT_2105C001D
00:0F:59:07:5B:8B

Select your Roger
Covert System

Screen 5 (bottom-center):

08:09   Application Settings

Talk Group Activation

Audio Route Selection
PhoPTT_2105C001D

Additional Audio Gain ☐

ACCESSORIES

Use Wired Headset ☐

Use Bluetooth Device

LOCATION

Share Location ☐

MAP

Map Type

Select
« Use Bluetooth Device »

SOUNDS AND VIBRATION

Screen 6 (bottom-right):

08:09   Bluetooth

MY DEVICES ▲

PhoPTT_2105C001D ⓘ

AVAILABLE DEVICES ▲

5A:EF:BE:55:24:0B ⓘ

56:71:5F:F7:D3:E8 ⓘ

45 ⓘ

Select your Roger
Covert System

47 ⓘ

5B:F0:15:9E:E9:88 ⓘ

Screen 1 popup:

Testing for compatibility...

Press and release Bluetooth PTT button

CANCEL

Callout: Press and release the PTT1 button of your Roger Covert System

Screen 2 popup:

Device Connected

This device is now connected to your WAVE app

CLOSE

8.8. Streamwide Team On The Run / Team On Mission

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

The Roger Covert System is compatible with the version 3.7.1 and above of the PTT-apps Team On The Run and Team On Mission of Streamwide.

1. On the "Bluetooth custom command" section of SCA, select "Generic 3" and configure the phone features as below:

2. No special settings are required in the Team On The Run / Team On Mission apps, only to pair the Roger Covert System through the Bluetooth menu of the smartphone.

8.9. Lifeline

Before starting the configuration, please read the important notice for PTT-apps (section 5.)

The Roger Covert System is compatible with the version 3.2.1 and above of the PTT-app Lifeline.

1. On the "Bluetooth custom command" section of SCA, select "Generic 2" and configure the phone features as below:

2. Configure Bluetooth accessory in Lifeline application as below:

Select "Bluetooth Type 2"

Select your device

Click on the "LINK" button of PTT feature

Press on the PTT 1 of your Roger Covert C

When check mark of the PTT feature appear in green, click on "SAVE" button

8.10. PTT-apps compatibility with generic PTT custom commands

The PTT-apps that are confirmed to be compatible with the generic Bluetooth custom command are listed below:

Generic 1	Generic 2	Generic 3
	Lifeline Motorola WAVE Push-to-Talk (PTT) (5.12+) - WAVE Mobile Communicator	Streamwide Team on the Run Streamwide Team on Mission

9. Roger Covert unit configuration for Radios through Bluetooth

On the "Bluetooth custom command" section of SCA, select the desired radio and deactivate all phone features as below:

10. Radios settings

10.1. Motorola TETRA radios
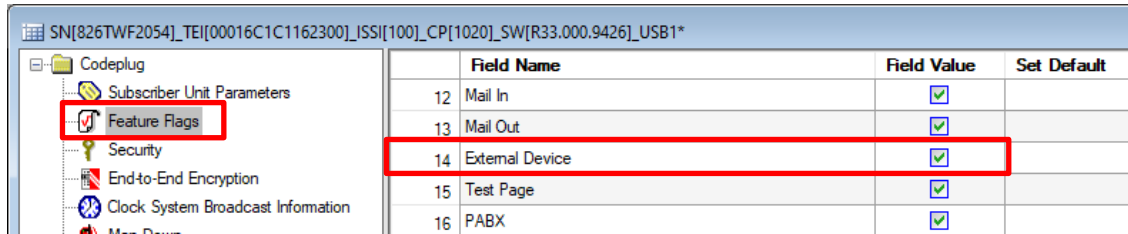
10.1.1. Radio preparation

1. To use the Roger Covert C with a Motorola Tetra radio, the following Motorola licenses need to be activated on each radio.
    - o BT Connectivity
    - o BT Control
    - o BT Audio & Object Push 626
    - o ST Series Covert Solution (for Covert Mode on ST series radios)

2. Open the software Motorola Tetra CPS Plus

3. Connect your radio and read the configuration (your radio need to be charged at 80% at least to be readable):
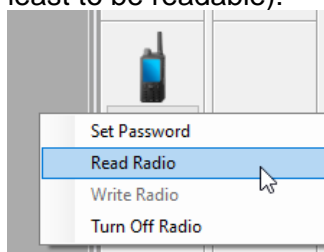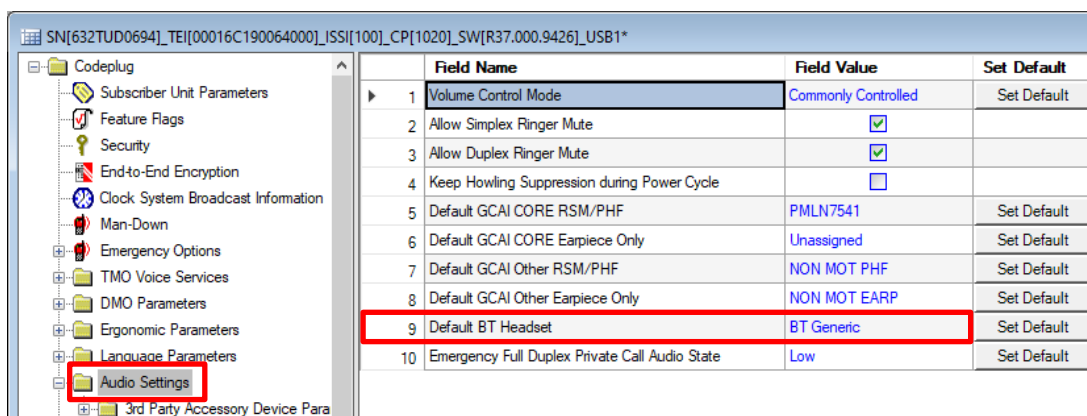
10.1.2. Mandatory radios settings

1. In the "Feature Flags" section, ensure that the "External Device" is checked:
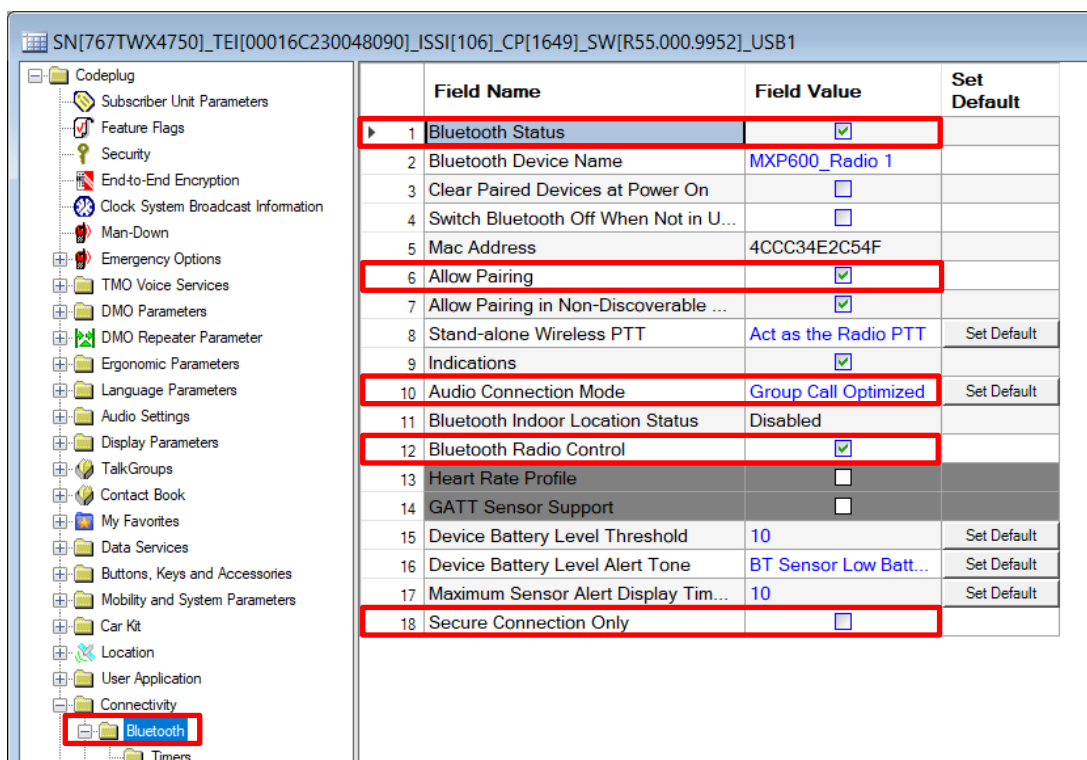
2. In "Audio Settings" section, set the "Default BT Headset" value to "BT Generic"

10.1.3. Settings on recent Motorola Tetra radios (without Bluetooth SPP connectivity)

1. Go on the root of the "Bluetooth" section, and set the checkboxes as marked in red below (depending of the radio model, some parameters might not be displayed):

2. Go to section 10.1.5 to continue the radio setup.

10.1.4. Settings on old Motorola Tetra radios (with Bluetooth SPP connectivity)

1. Go on the root of the "Bluetooth" section, and check the checkboxes as marked in red below (depending of the radio model, some parameters might not be displayed):
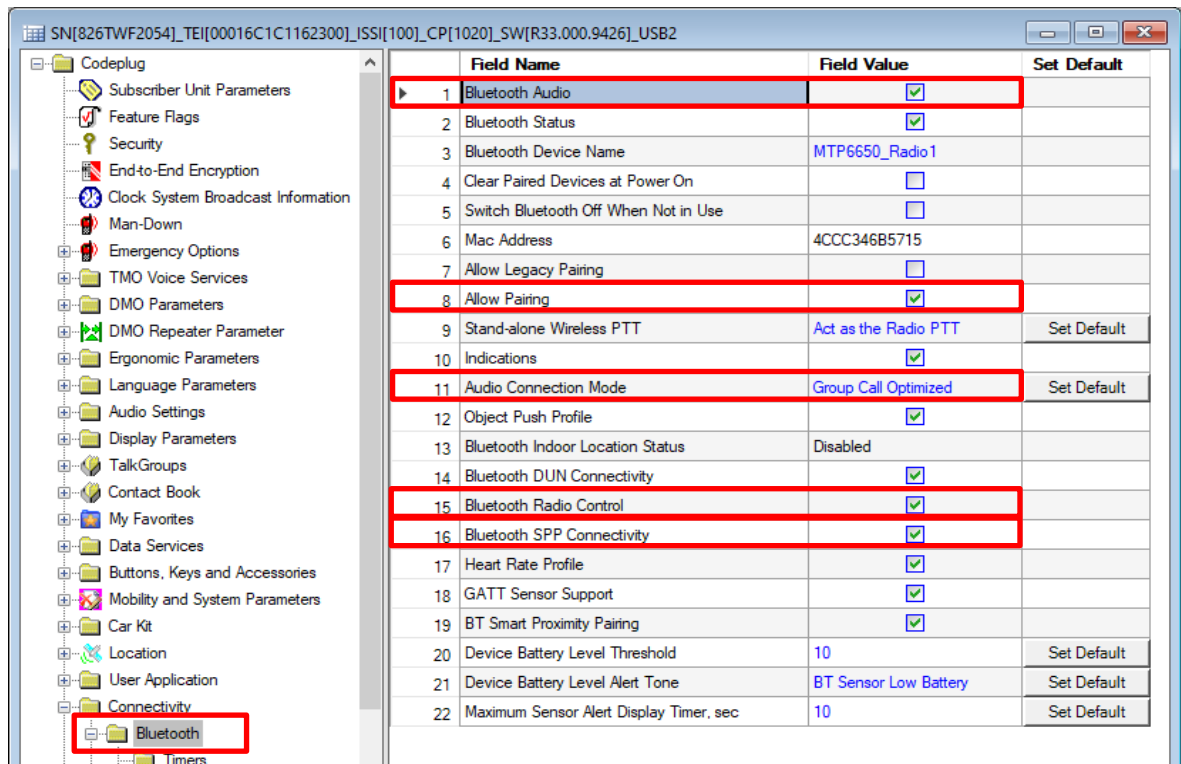
2. Go on the "SPP Device Routing Table" of the Bluetooth section. To allow all Roger Covert C to control your radio with the AT commands, enter the MAC address 000F59******

   Important! The SPP routing table is not a security feature to block audio or pairing with unexpected Bluetooth devices. It only allow the listed devices to control your radio with the AT commands for the PTT feature.

   To restrict the paring to a group of devices, follow the section 10.1.6 Pairing restrictions features.

   Warning! New models of Motorola TETRA radios are not using anymore the SPP Device Routing Table.
   If the folder "SPP Device Routing Table" is not present in your Codeplug, refer to previous section 10.1.3.
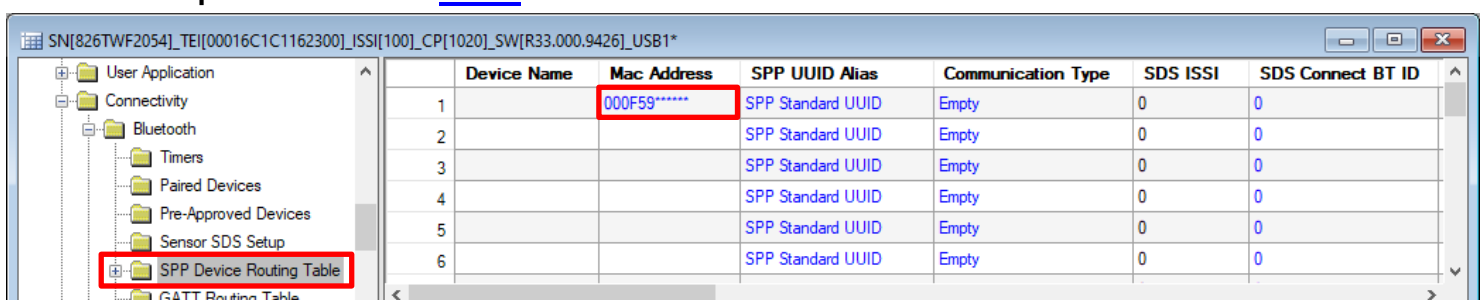
3. On some radios models, the definition of a restricted group of MAC addresses can cause issue with the PTT commands. In this case, allow all MAC addresses to control the radio with the AT commands by entering 12x wildcard characters (************).
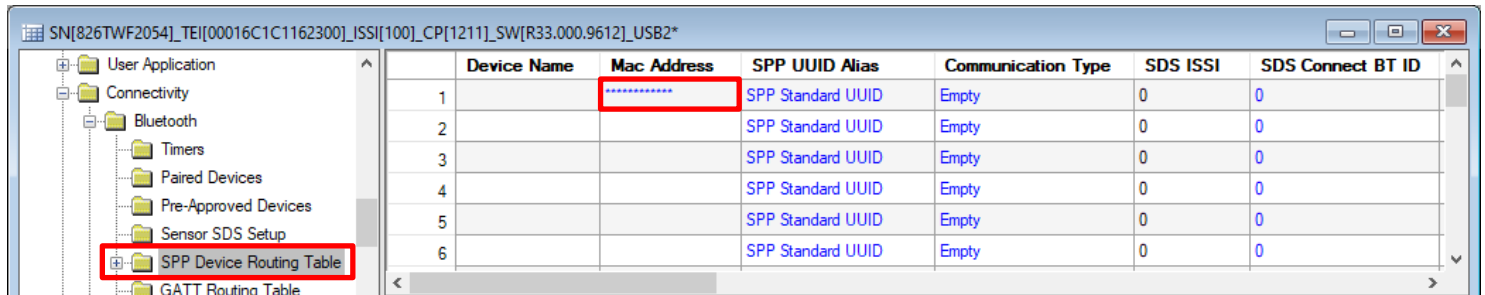
4. Then select "AT_CMDS" on the "Communication Type " field:

	Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI
▶ 1		000F59******	SPP Standard UUID	Empty ▼	0
2			SPP Standard UUID	Empty	0
3			SPP Standard UUID	SDS	0
4			SPP Standard UUID	AT_CMDS	0
				Empty	

	Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI
1		000F59******	SPP Standard UUID	AT_CMDS	0
2			SPP Standard UUID	Empty	0
3			SPP Standard UUID	Empty	0

5. If you prefer to allow only a specific Roger Covert C to control your radio with the AT commands (or a group of Roger Covert C), follow the steps 6 to 10.
Otherwise, go to section to continue the radio setup.

6. With the help of the USB cable, connect the Roger Covert unit to your computer and read the configuration
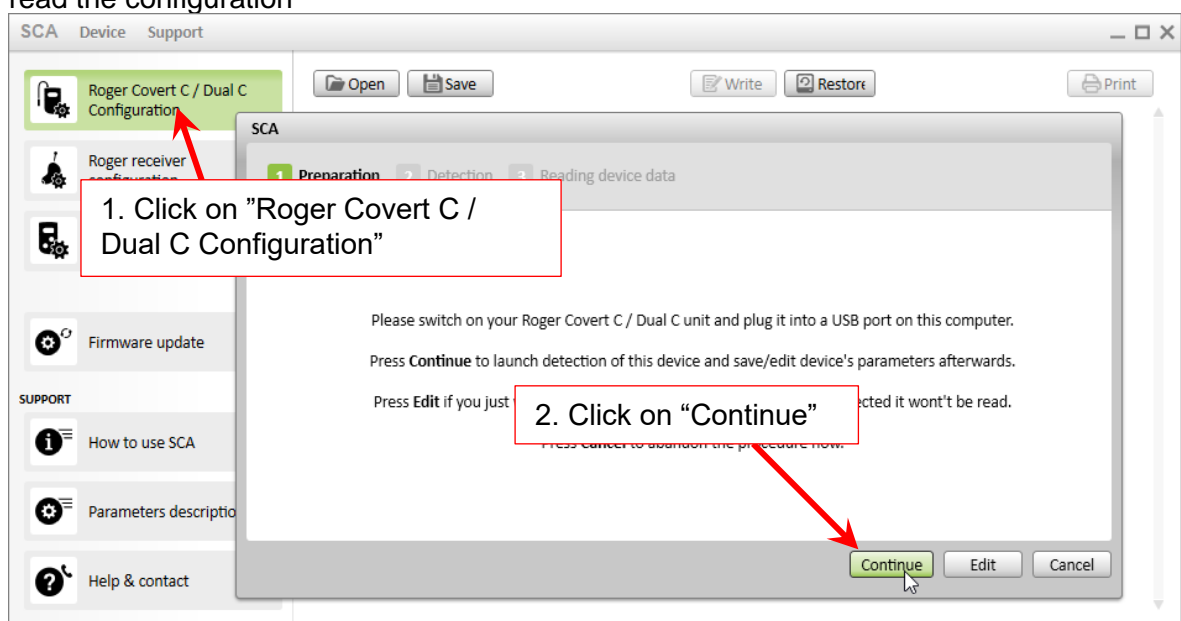
7. Select and copy the Bluetooth MAC address of the Roger Covert unit to prepare for the registration of the device on the radio through the Motorola Tetra CPS Plus software:

8. Go on the "SPP Device Routing Table", paste the Bluetooth MAC address of the Roger Covert unit :

9. Then select "AT_CMDS" on the "Communication Type " field:

		Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI
▶	1		000F5906E23D	SPP Standard UUID	AT_CMDS	0
	2			SPP Standard UUID	Empty / SDS / AT_CMDS	0
	3			SPP Standard UUID		0
	4			SPP Standard UUID	Empty	0

10. You can register up to 32 Roger Covert unit on one radio:

		Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI
▶	1		000F5906E237	SPP Standard UUID	AT_CMDS	0
	2		000F59065323	SPP Standard UUID	AT_CMDS	0
	3		000F5905FFE1	SPP Standard UUID	AT_CMDS	0
	4			SPP Standard UUID	Empty	0
	5			SPP Standard UUID	Empty	0

10.1.5. Covert features radio settings
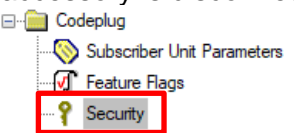
To ensure to keep the radio silent in case of Bluetooth disconnection between the Roger Covert and the radio, several parameters can be setup depending of the radio model:

- MTP and MXP series (Choose the option that best suits your usage):

  Covert Mode – This feature enables you to completely shut down all visible and audible alerts and notifications (except in earpiece or connected accessory). If On, the Covert Mode turns on after the radio powers up.

		Field Name	Field Value
	27	Activate Always Encryption	☐
	28	Covert Mode	On
	29	Covert Vibrate	☐

  Codeplug
  - Subscriber Unit Parameters
  - Feature Flags
  - Security

  Covert Audio Accessory – Under normal conditions, if an audio accessory disconnect from the radio, audio is automatically routed to the radio loudspeaker. If this field is enabled, the radio keeps the speaker silent, despite the fact that the accessory is disconnected from the radio.

		Field Name	Field Value
	31	Enter Pinlock-Menu Tone	☑
	32	Covert Audio Accessory	☑
	33	Continuous Indication of Non Secured Air Interface	☐

  Codeplug
  - Subscriber Unit Parameters
  - Feature Flags
  - Security

- ST series:

  On the ST series radios, the settings are exactly the same as above but these features are not available by default.
  The "ST Series Covert Solution" license is required to enable these features.
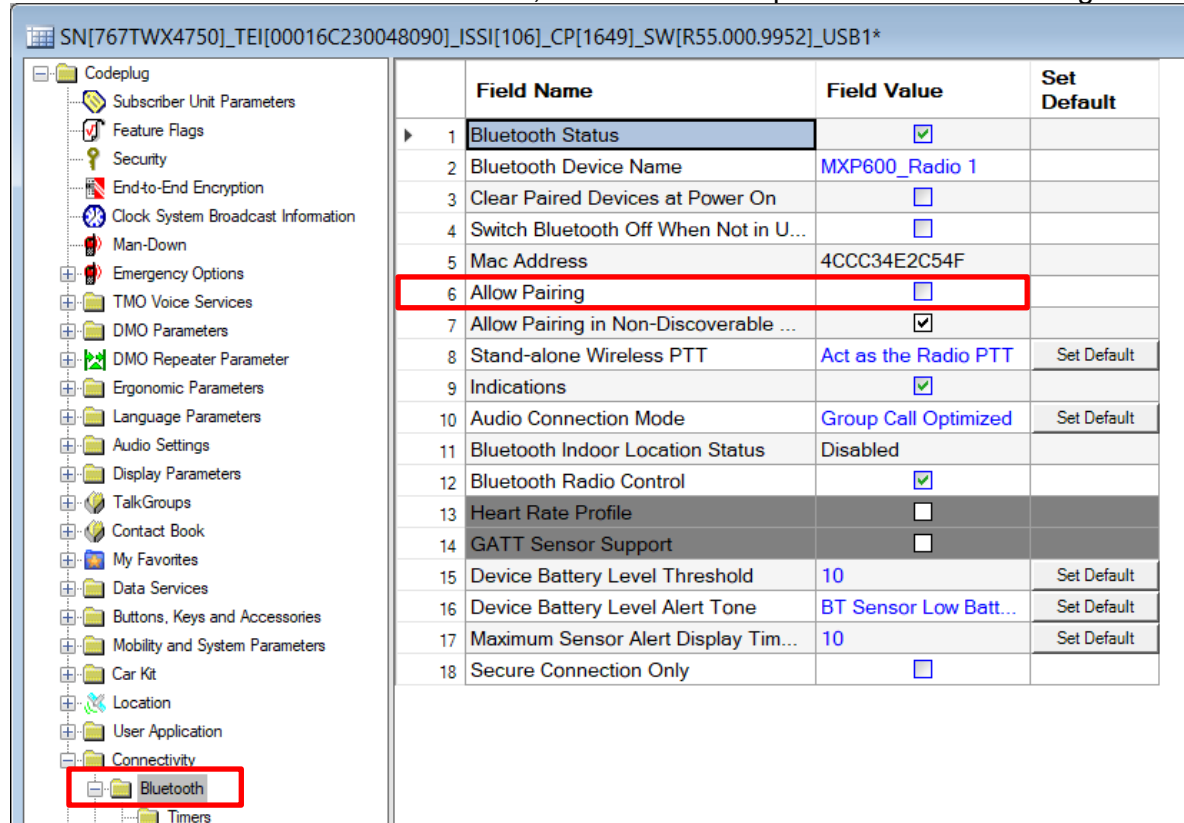
10.1.6. Pairing restrictions features

Motorola allows you to restrict pairing to specific devices.
To allow to pair only a specific Roger Covert C (or a group of Roger Covert C), follow the procedure below:
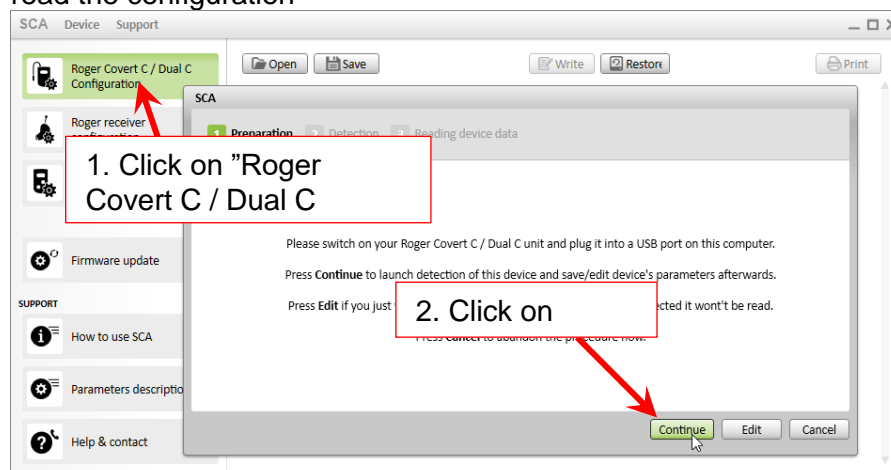
1. Go on the root of the "Bluetooth" section, and uncheck the parameter "Allow Pairing"

2. With the help of the USB cable, connect the Roger Covert unit to your computer and read the configuration

3. Select and copy the Bluetooth MAC address of the Roger Covert unit to prepare for the registration of the device on the radio through the Motorola Tetra CPS Plus software:

4. Paste the Bluetooth MAC address on the first empty line of the "Pre-Approved Devices" list:

5. On SCA software, select and copy the Bluetooth Device Name:

6. Paste the Bluetooth Device Name on the corresponding line:

		User Selected Device Name	Mac Address	Remove Device
▶	1		000F5906F237	Remove Device
	2			ce
	3			ce
	4			ce
	5			ce
	6		000000000000	Remove Device
	7		000000000000	Remove Device

Copy — Ctrl+C
Paste — Ctrl+V
Fill Down
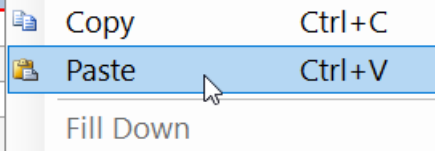
	User Selected Device Name	Mac Address	Remove Device
1	2003C002C	000F5906E237	Remove Device
2		000000000000	Remove Device
3		000000000000	Remove Device

7. Repeat the procedure from point 2 to point 6 to register the next Roger Covert device. You can register up to 32 devices on a radio.

10.1.7. Write radio configuration and Bluetooth pairing

1. Write the configuration on the radio:

Set Password
Read Radio
Write Radio
Turn Off Radio
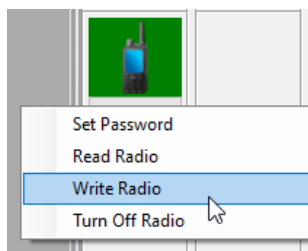
2. Turn OFF the radio through the Motorola Tetra CPS Plus software before disconnecting the radio:

Set Password
Read Radio
Write Radio
Turn Off Radio
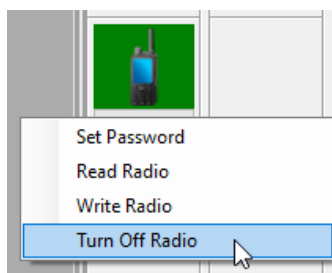
3. Proceed to the pairing of the Roger Covert C through the menu of the radio

10.2. Motorola MOTOTRBO radios

To use the Roger Covert unit with a Motorola MOTOTRBO radio **DP3441e / DP3661e / DP4x01e**, the Motorola license "**HKVN4465A Mototrbo Bt Accessory Commands Radio**" need to be activated on each radio.

Proceed to the configuration of the Roger Covert C with SCA software (**refer to paragraph 8. Roger Covert unit configuration for Radios through Bluetooth**), no further radio configuration is then required. Go on with the pairing through the menu of the radio.

10.3. Motorola WAVE Two-Way radios (e.g. TLK 100)

1. On the "Bluetooth custom command" section of SCA, select "Motorola Wave" and deactivate all phone features as below:

2. The pairing process of the Roger Covert C with the radio is to be done through the Wave on Cloud management portal.
   Make sure pairing option is selected on the TLK100 device.

3. Launch Wave on Cloud portal.

4. Go to Wave devices and select the TLK100 device.

5. Go to drop down in top left corner and select Manage Bluetooth Accessories.

6. Enter in pairing mode on the Roger Covert System.

7. Enter the Bluetooth name of the Roger Covert System (as set in SCA) and 0000 as the pin code and then click save.

10.4. Airbus TPH900 radios

1. On the "Bluetooth custom command" section of SCA, select "Airbus-Hytera" and deactivate all phone features as below:

2. If Bluetooth PTT commands are not working, contact Airbus to ensure to have radio's firmware version compatible with the Roger Covert C installed on your radio.

10.5. Airbus TH9 radios

Tested with Airbus TH9 firmware V8.55-5/16.10.220

3. On the "Bluetooth custom command" section of SCA, select "Airbus-Hytera" and deactivate all phone features as below:

4. Ensure to have the latest version of the Airbus Taqto software to configure your radio.

5. Open the Airbus Taqto software and configure the PTT Bluetooth AT commands on the radio as shown below:

6. Proceed to the pairing with the radio through the radio's menu

10.6. Kenwood radios

1. On the "Bluetooth custom command" section of SCA, select "Sepura-Kenwood" and deactivate all phone features as below:

2. Proceed to the pairing with the radio through the radio's menu

3. When the information "Connecting" appear on the radio's screen, perform a short press on the PTT 1 of the Roger Covert C to confirm the connection (picture taken on Kenwood NX5200E, the radio's screen might be different):

4. Pairing and connection is done.

10.7. Hytera X1p radios

1. On the "Bluetooth custom command" section of SCA, select "Airbus-Hytera" and deactivate all phone features as below:

2. Ensure to have the required firmware installed on your radio:
   - Bluetooth chip firmware: V1.01.030 or above
   - Radio firmware: A9.02.01.013 or above

3. Open the software Hytera CPS and configure the speaker and microphone selection settings to use the external device.
   In the "UI setting" section, set:
     a. SPK Selection on "External First"
     b. MIC Selection: "External First" or "Follow PTT" (see detail below)

MIC selection	PTT used	Microphone used	
		Roger Covert C connected	Roger Covert C disconnected
Follow PTT	Radio PTT	Radio Mic	Radio Mic
	Roger Covert PTT	Roger Covert C Mic	N/A
External First	Radio PTT	Roger Covert C Mic	Radio Mic
	Roger Covert PTT	Roger Covert C Mic	N/A

4. Proceed to the pairing with the radio through the radio's menu according to the steps below:
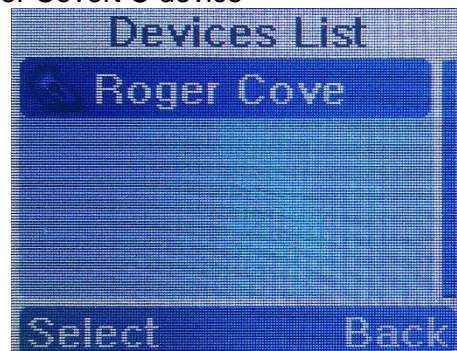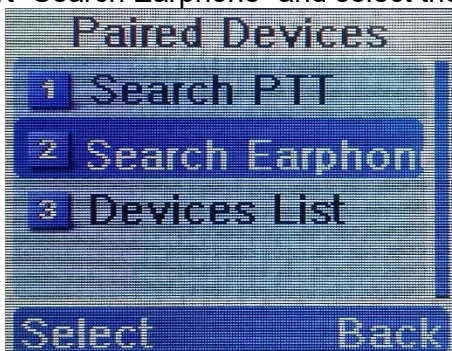
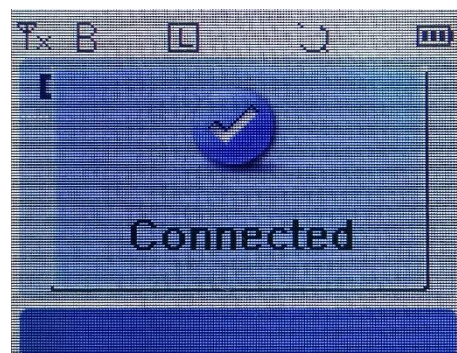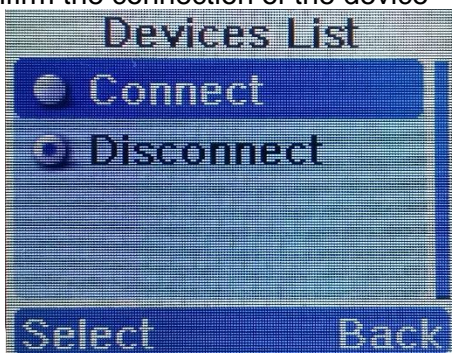Open the menu and then select "Accessories"
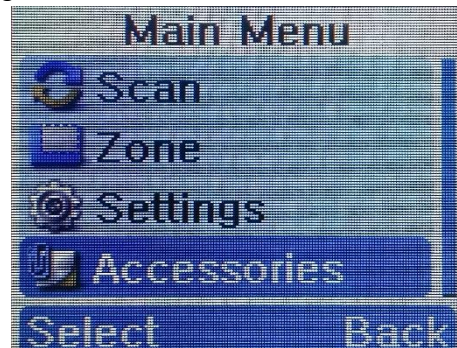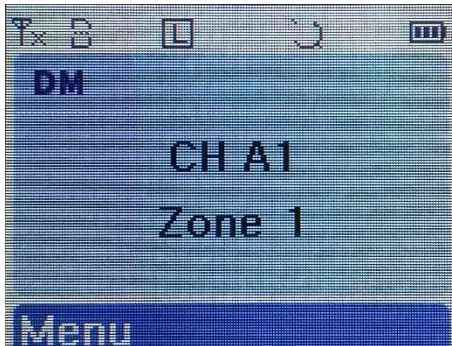
Select "BT" and then "Paired Device"
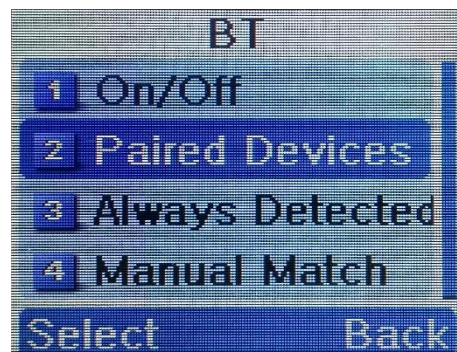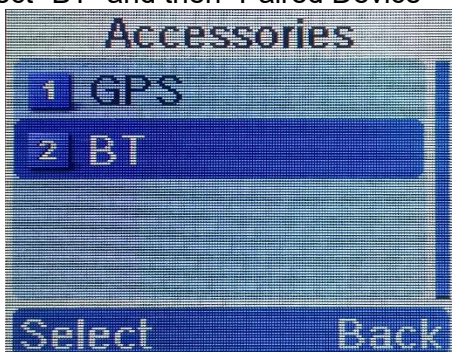
Start "Search Earphone" and select the Roger Covert C device
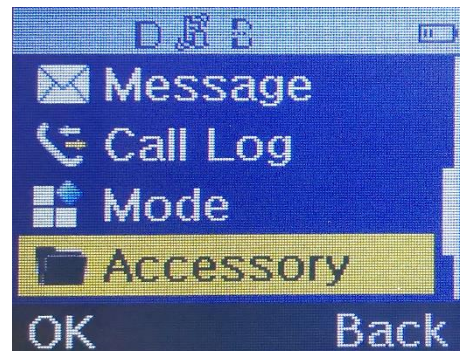

Confirm the connection of the device

## 10.8. Hytera Z1p radios

1. On the "Bluetooth custom command" section of SCA, select "Airbus-Hytera" and deactivate all phone features as below:
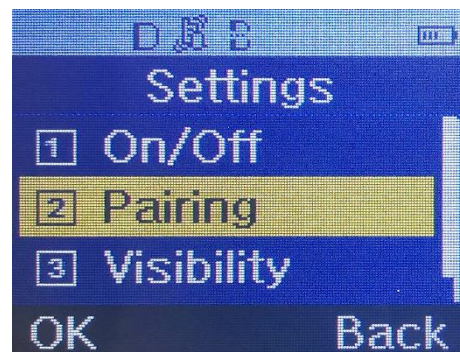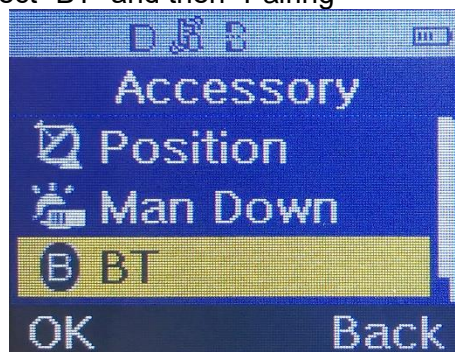

2. Ensure to have the required firmware installed on your radio:
   - Bluetooth chip firmware: V2.01.033 or above
   - Radio firmware: V3.09.02.007 F4 or above

3. Proceed to the pairing with the radio through the radio's menu according to the steps below:
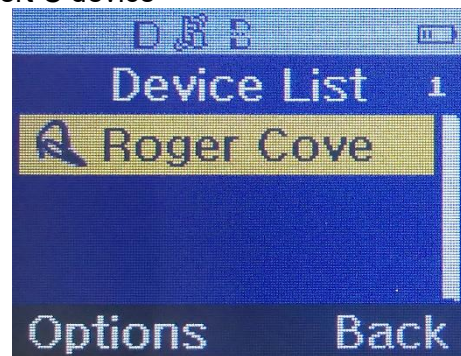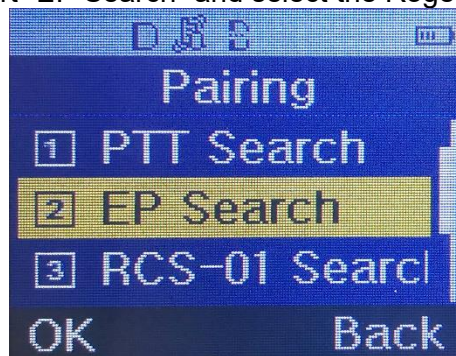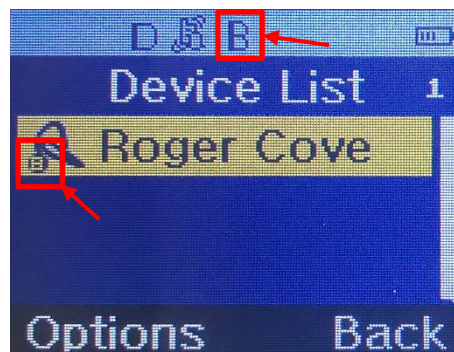
   Open the menu and then select "Accessory"
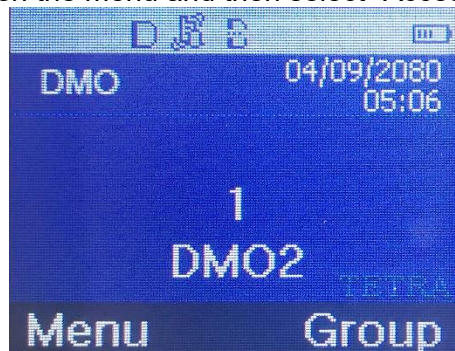
   Select "BT" and then "Pairing"

Start "EP Search" and select the Roger Covert C device

Confirm the connection of the device
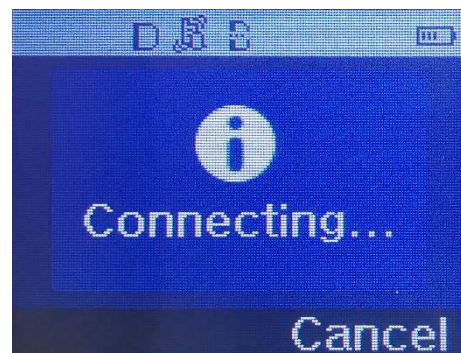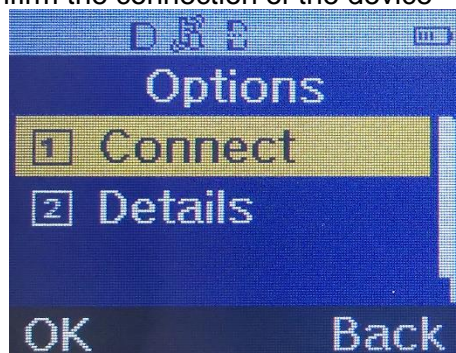
11. Phones settings

11.1. LTE Covert

On the "Bluetooth custom command" section of SCA, select "LTE Covert" and configure features as below:

Bluetooth custom command	LTE Covert ▼
Push To Talk CH1	☑
End of call notification	☐
Accept call notification	☐
Redial function	☐
Reject call function	☑
Switch network function	☑

Important! The LTE Covert has a built-in redial function, so it's mandatory to deactivate the Roger Covert Redial function.

12. Technical assistance

In case a technical assistance would be required, contact your Sales Representative. Please make sure to have following information available :

1) Phone/radio brand
2) Phone/radio model
3) Android version / radio firmware version
4) PTT-app version
5) In depth description of the issue (Use case, condition to face the issue, …)

13. Document history

Version	Date	Change
1.0	03.09.2019	Initial version
2.0	01.12.2020	Add Motorola Wave PTT-app Add radios configurations
3.0	19.02.2021	Add Airbus TH9 and Hytera X1p
3.1	27.04.2021	Add covert mode configuration for Motorola TETRA
3.2	09.08.2021	Update PTT apps screenshots according last apps versions
3.3	20.08.2021	Add Hytera Z1p
3.4	28.09.2021	Improve instructions for new Tetra radio Add Motorola WAVE Two-Way radios Add Airbus TPH900 Add LTE Covert
3.5	01.11.2021	Add notice about firmware update
3.6	13.01.2022	Add Streamwide Team On The Run / Team On Mission PTT-apps Add notice about recommendation of the vibrator mode for PTT-apps (section 5.)
3.7	05.04.2022	Add Lifeline application Add notice about workaround for PTT-apps with Iphones devices (section 5.)
3.8	01.11.2022	Improve instructions for PTT-apps with Iphones devices (section 5.) Improve instruction for Motorola WAVE Two-Way radios Add Motorola WAVE Push-to-Talk (PTT) (5.12+) - WAVE Mobile Communicator application
3.9	10.01.2023	Add notice about "Nearby devices" permission since Android 12 (section 5.) Update of instructions for Instant Connect Enterprise according app version 3.2.1 and above.

| 3.10 | 16.05.2024 | Remove "End of call" and "Accept call" notification for PTT-apps with Iphones devices (section 5.)

Update of instructions for Group Talk according app version 3.7.40p and above.

Update of instructions for TASSTA according app version 5.6.64.2 and above.

Improve instructions for Motorola Tetra radio and add pairing restrictions features (section 10.1). |