

1. Content

1.	Content	1
2.	Introduction	2
3.	Important notice after firmware update.....	2
4.	Important notice for pairing process	2
5.	Important notice for PTT-apps.....	3
6.	Important notice for radio.....	3
7.	Roger Covert unit configuration for PTT-apps.....	4
8.	PTT-apps settings.....	6
8.1.	Zello	6
8.2.	ESChat	8
8.3.	TASSTA.....	9
8.4.	GroupTalk	10
8.5.	Instant Connect Enterprise	11
8.6.	Motorola Wave.....	12
8.7.	Motorola WAVE Push-to-Talk (PTT) (5.12+) - WAVE Mobile Communicator.....	13
8.8.	Streamwide Team On The Run / Team On Mission	16
8.9.	Lifeline	17
8.10.	PTT-apps compatibility with generic PTT custom commands	19
9.	Roger Covert unit configuration for Radios through Bluetooth.....	20
10.	Radios settings	20
10.1.	Motorola TETRA radios	20
10.1.1.	Radio preparation	20
10.1.2.	Mandatory radios settings.....	21
10.1.3.	Settings on recent Motorola Tetra radios (without Bluetooth SPP connectivity)	21
10.1.4.	Settings on old Motorola Tetra radios (with Bluetooth SPP connectivity)	22
10.1.5.	Covert features radio settings.....	25
10.1.6.	Pairing restrictions features	26
10.1.7.	Write radio configuration and Bluetooth pairing	28
10.2.	Motorola MOTOTRBO radios	29
10.3.	Motorola WAVE Two-Way radios (e.g. TLK 100).....	30
10.4.	Airbus TPH900 radios.....	31
10.5.	Airbus TH9 radios	32
10.6.	Kenwood radios	33
10.7.	Hytera X1p radios.....	34
10.8.	Hytera Z1p radios	36
11.	Phones settings	38
11.1.	LTE Covert.....	38
12.	Technical assistance	39
13.	Document history.....	39

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.

[\(https://www.ainaptt.com/ptt-smart-button/\)](https://www.ainaptt.com/ptt-smart-button/)

Configure your Roger Covert System as below:

Bluetooth custom command	None ▾
Push To Talk CH1	<input type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input checked="" type="checkbox"/>
Reject call function	<input checked="" type="checkbox"/>

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.

- For usage with Motorola MOTOTRBO R7, the Motorola licenses “**HKVN4522 Bluetooth 5.2**” and “**HKVN4465A Mototrbo Bt Accessory Commands Radio**” need to be activated on each radio. Motorola R7 firmware version **R02.24.02.1005** or above is required. Be aware that only **Motorola R7 Capable** and **R7 Premium** are compatible, R7a model don't have any Bluetooth connection.

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”.

Bluetooth custom command	None ▾
Push To Talk CH1	None
End of call notification	Sepura-Kenwood
Accept call notification	Airbus-Hytera
Redial function	PrymeBlu
Reject call function	TASSTA
Switch network function	Zello
Product name	GroupTalk
Serial number	ESChat
Hardware version	Instant Connect
Firmware version	Motorola Wave
Total of hard reset	MOTOTRBO
Total usage time (hours)	Motorola TETRA
	Generic 1
	Generic 2
	Generic 3
	LTE Covert

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.

Bluetooth Device Name	Prefix	Customizable part
	PhoPTT_Roger Cov	

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

Push To Talk CH1	<input type="checkbox"/>
------------------	--------------------------

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

End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>

5. Summary of recommended settings

The screenshot shows the configuration interface for a Roger device. On the left is a sidebar with navigation options: Roger Covert C / Dual C Configuration (selected), Roger receiver configuration, Roger Remote C / Dual C configuration, Firmware update, and a SUPPORT section with links for How to use SCA, Parameters description, and Help & contact. The main area contains various settings:

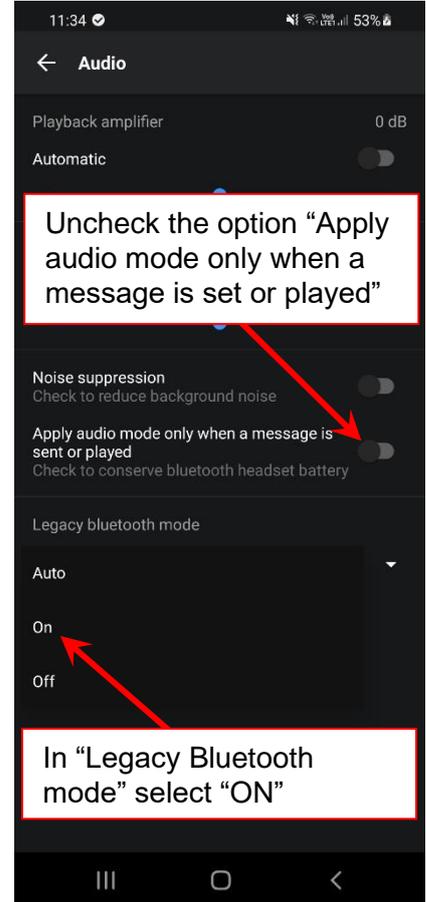
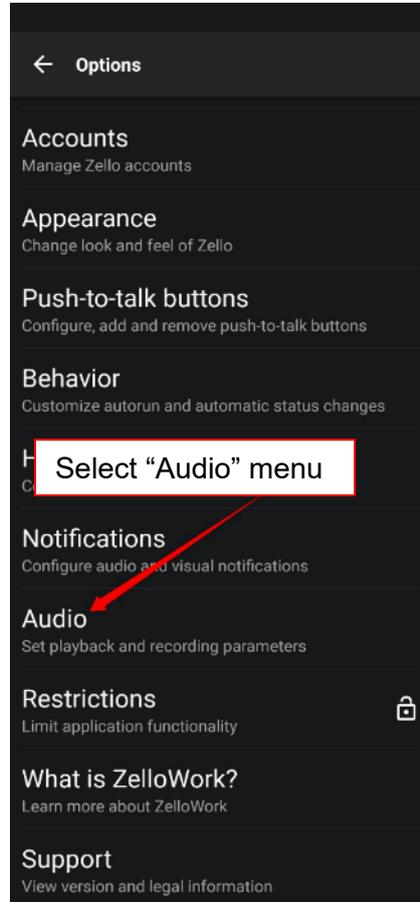
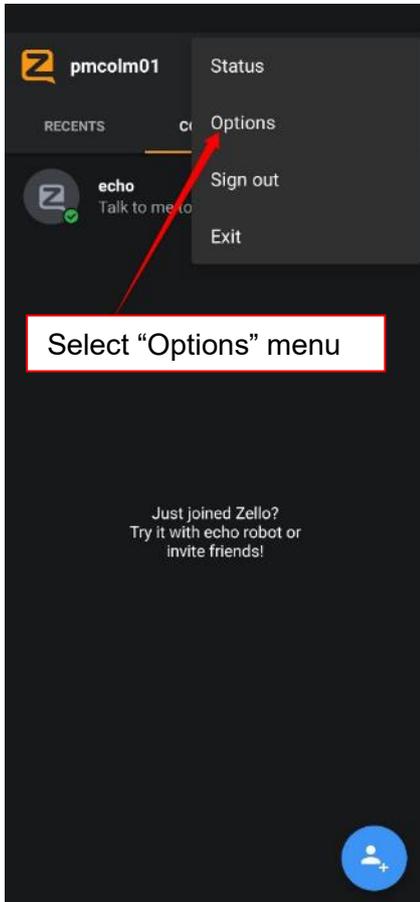
- Buttons: Open, Save
- Client first name: [text input]
- Client name: [text input]
- Bluetooth Device Name: PhoPTT_Roger Cov** (highlighted with a red box)
- Bluetooth MAC address: [text input]
- Microphone sensitivity: normal (default) high
- Roger beep:
- Volume adjustment beep:
- Vibrator control:
- Tone feedback:
- Tone delay: 0.5" 1" (default) 2"
- Bluetooth link notification:
- Bluetooth custom command: Zello** (highlighted with a red box)
- Push To Talk CH1:
- End of call notification:
- Accept call notification:
- Redial function:
- Reject call function:

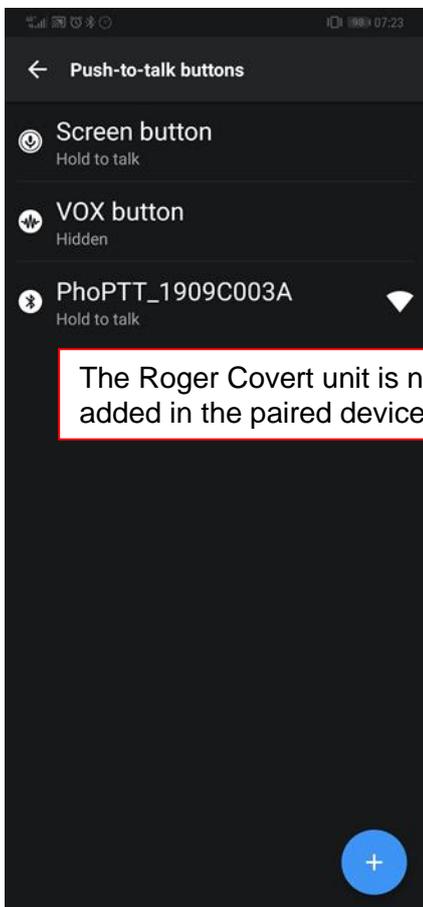
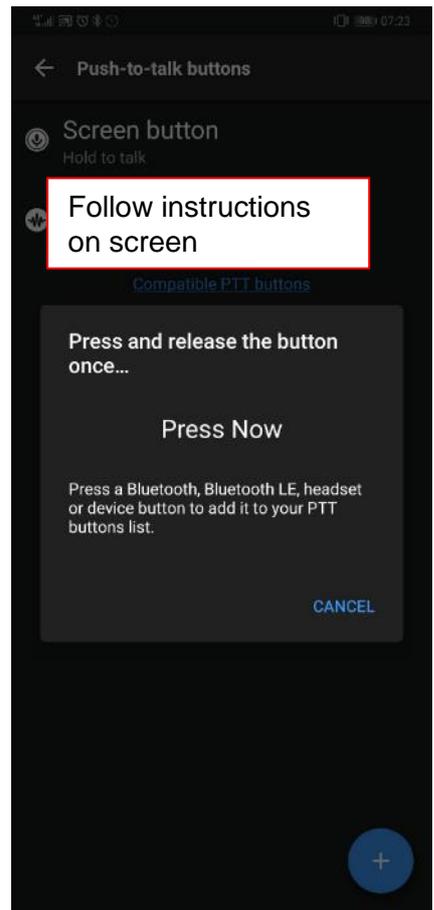
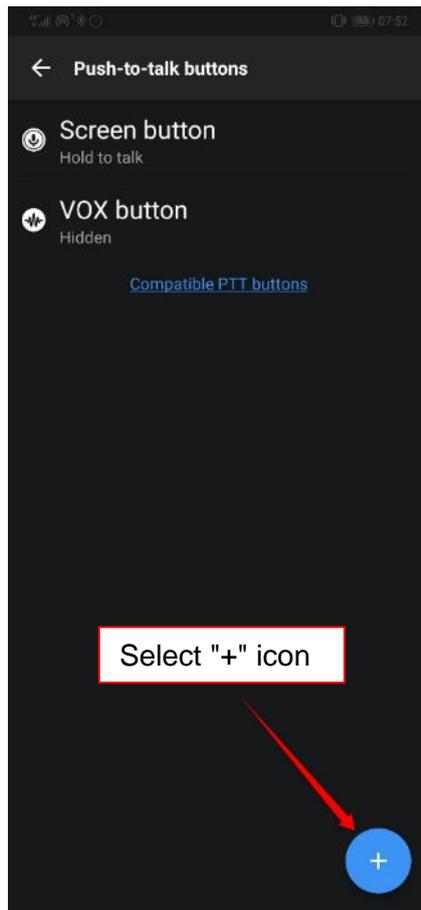
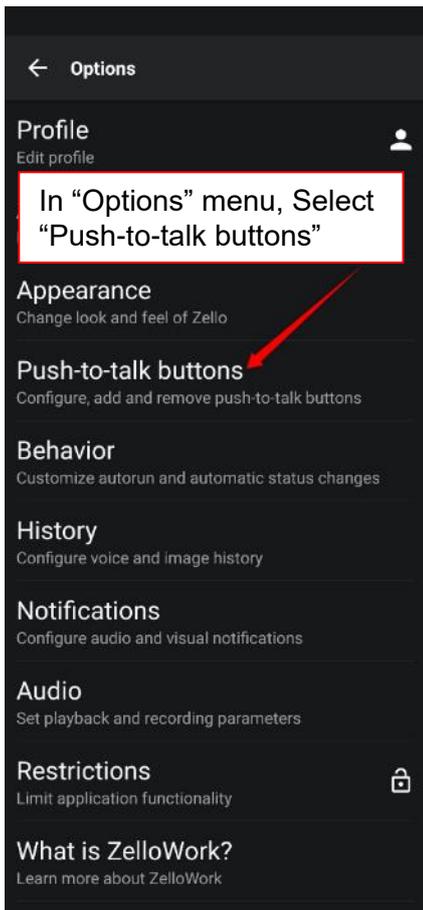
6. If the Roger Covert unit was previously connected to a mobile phone, as the "Bluetooth Device Name" has changed, a new pairing must be done with the mobile phone.

8. PTT-apps settings

8.1. Zello

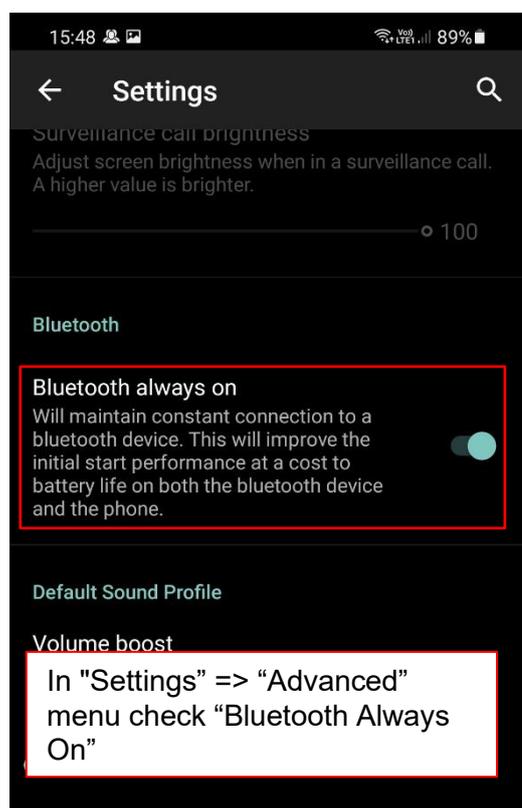
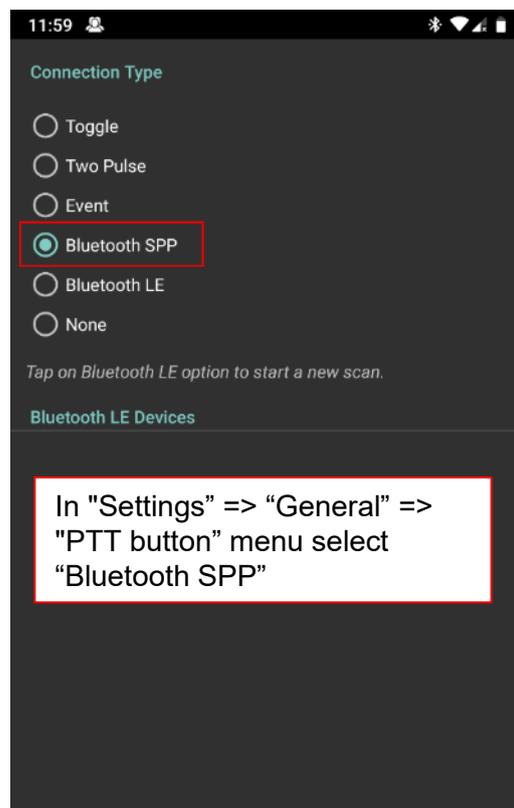
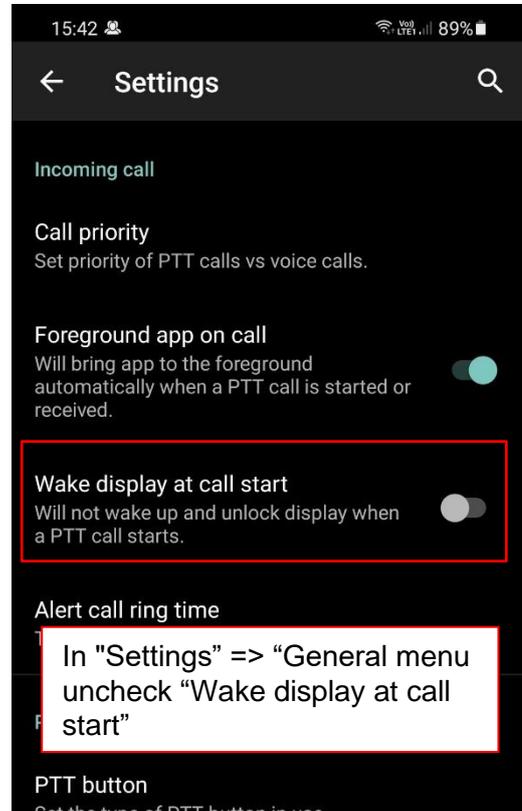
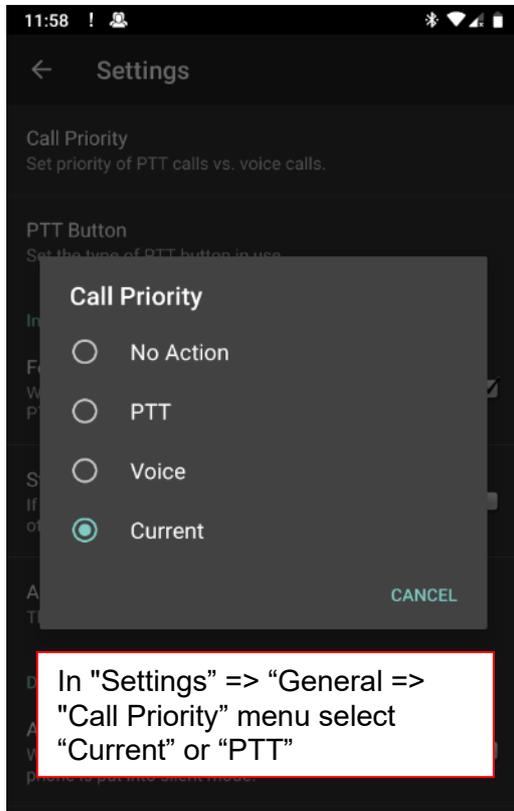
Before starting the configuration, please read the [important notice for PTT-apps](#) (section 5.)





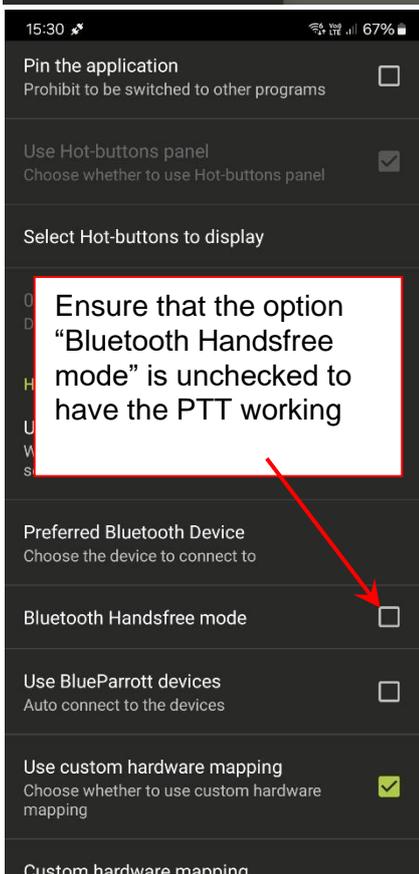
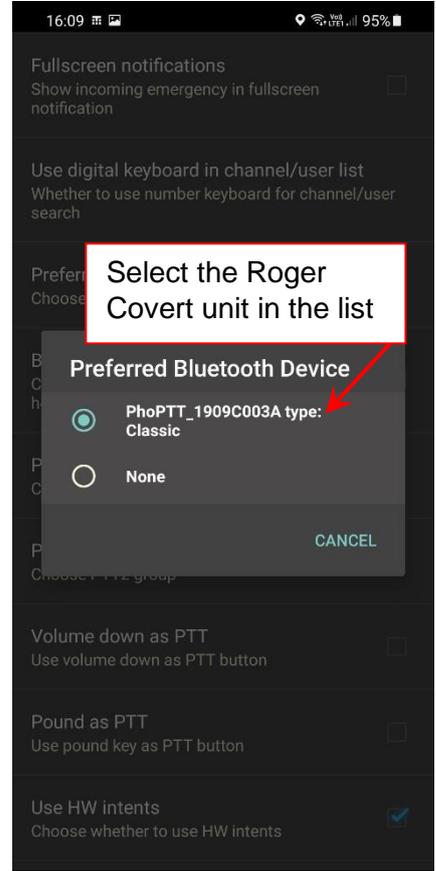
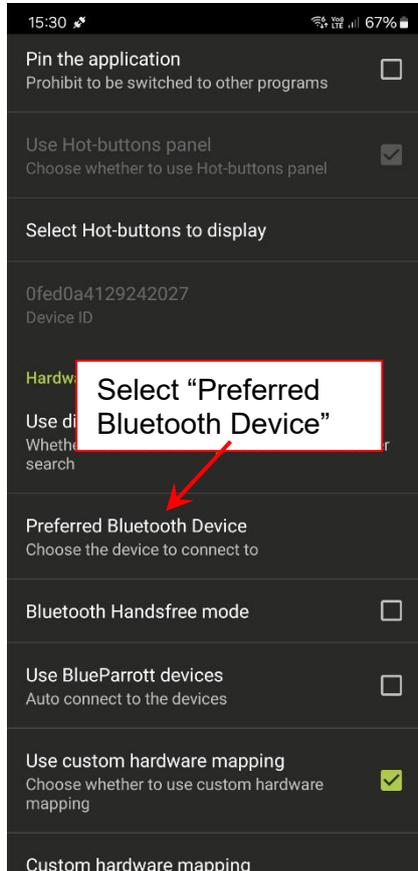
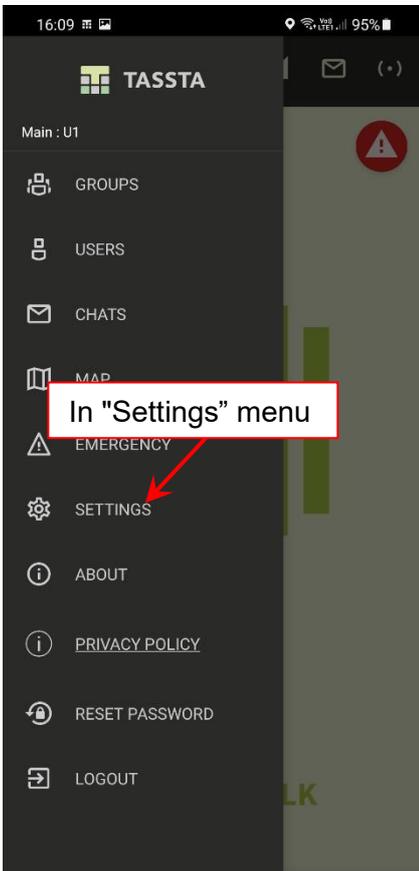
8.2. ESChat

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



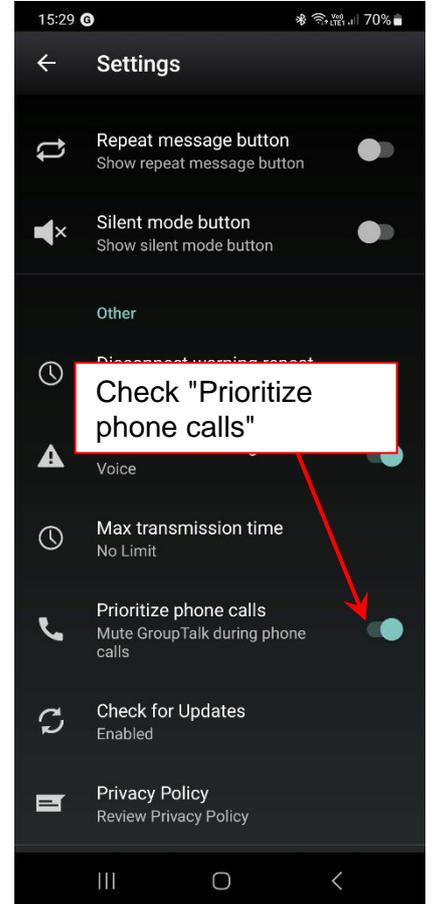
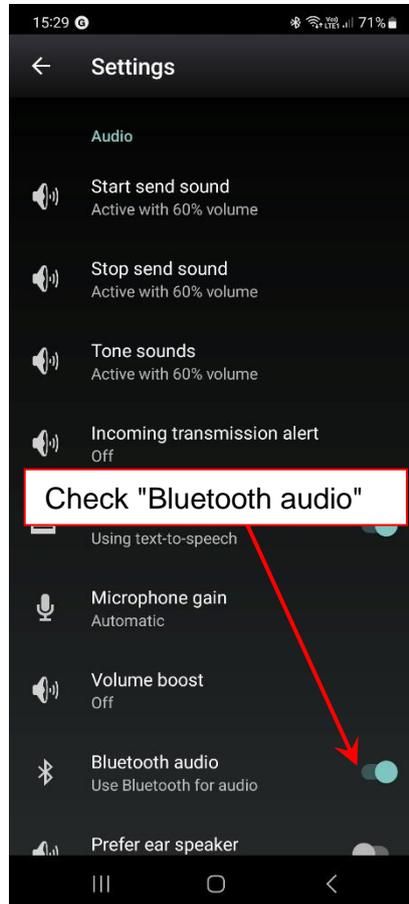
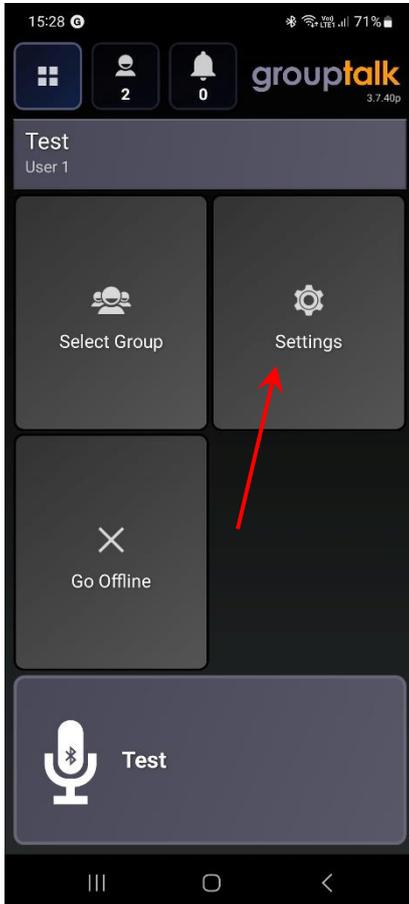
8.3. TASSTA

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



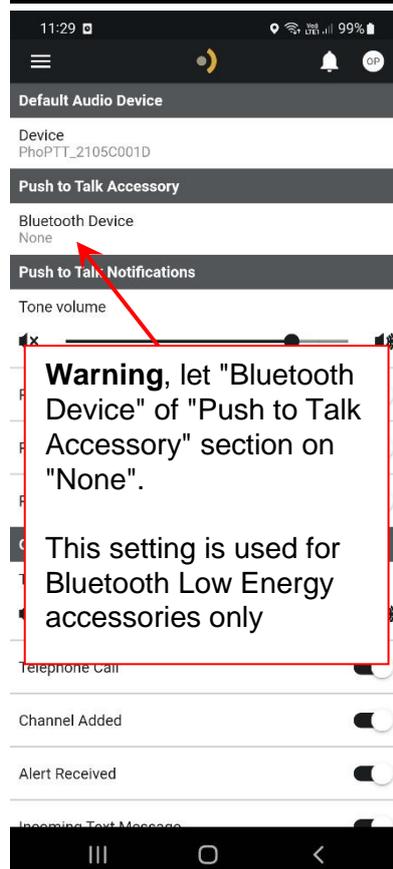
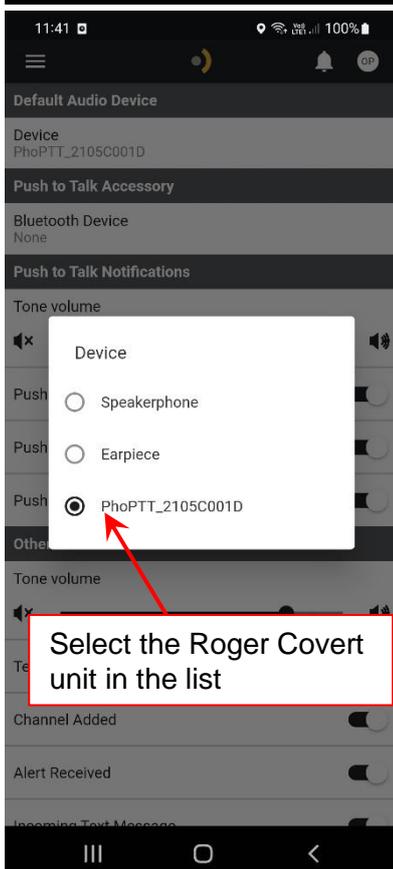
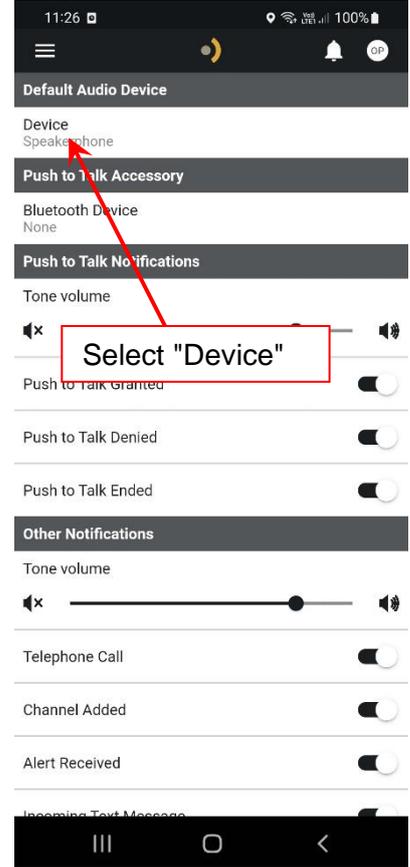
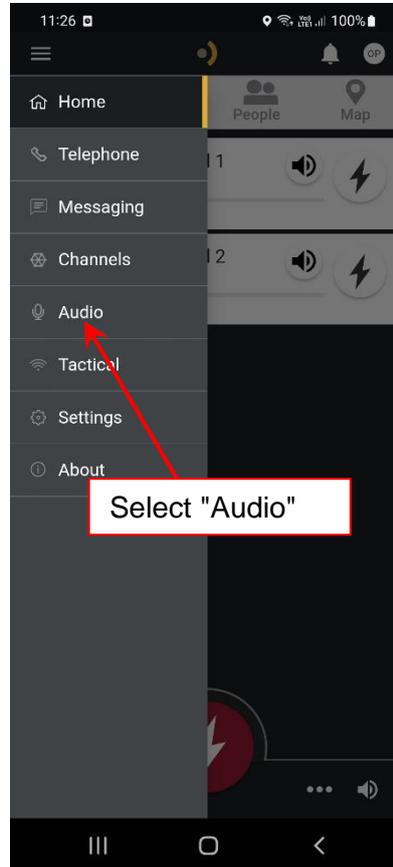
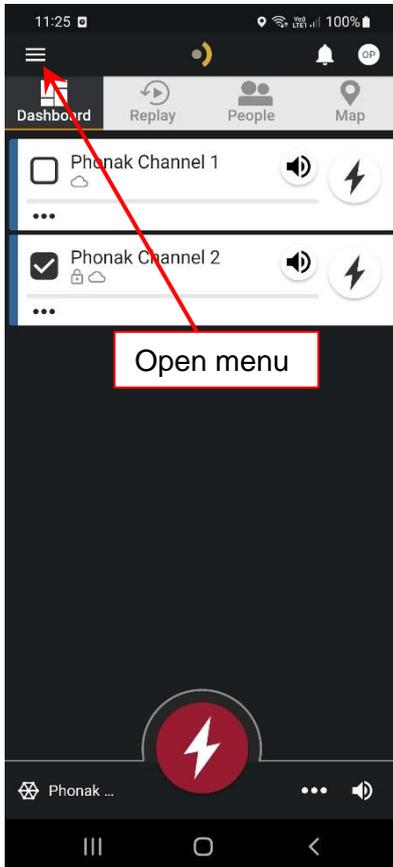
8.4. GroupTalk

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



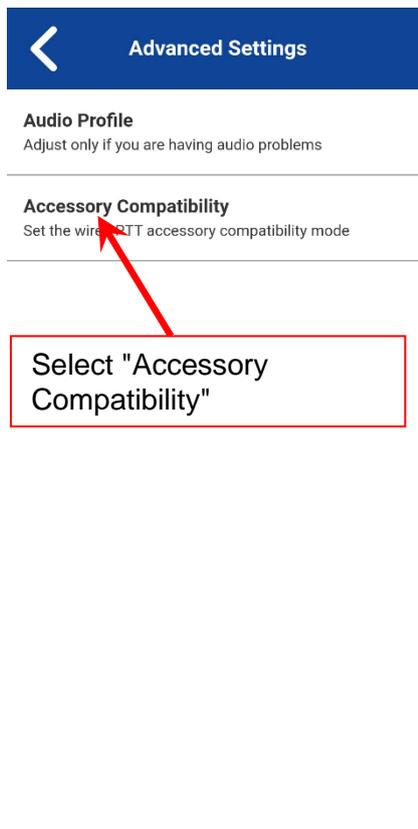
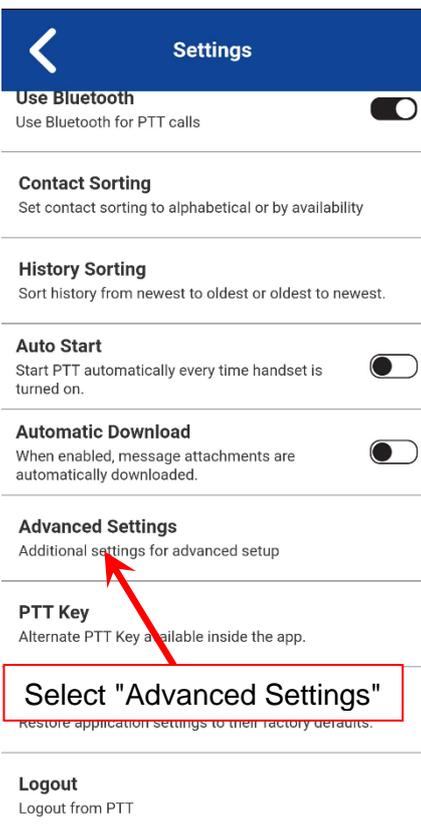
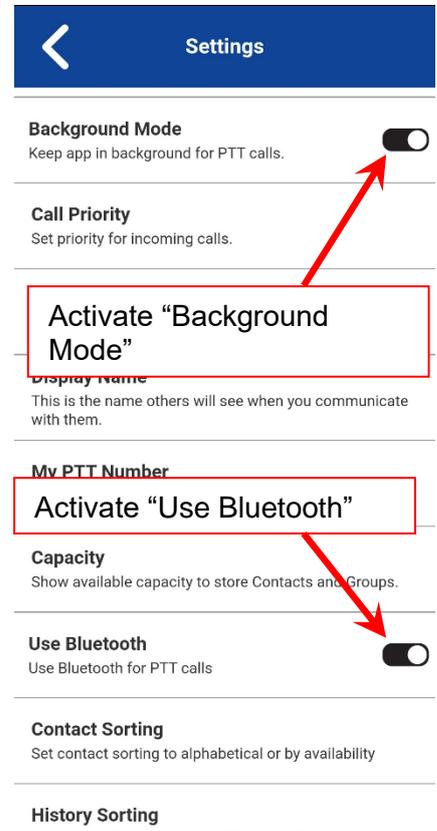
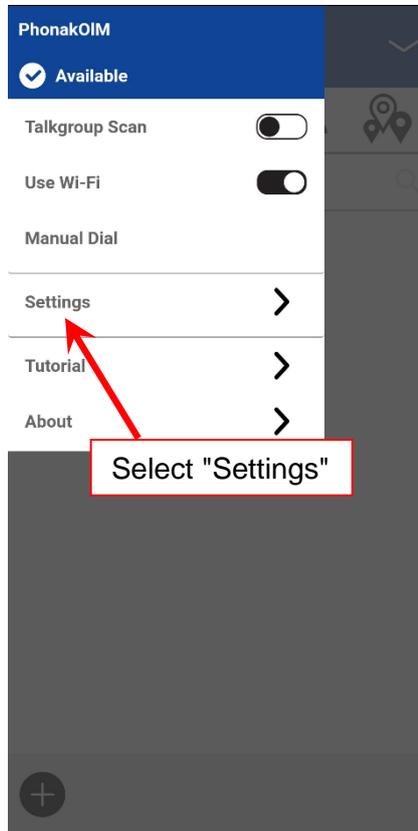
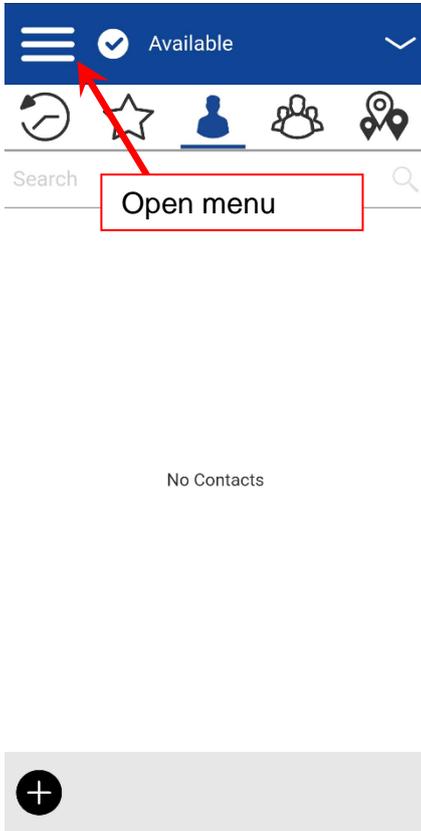
8.5. Instant Connect Enterprise

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.



8.6. Motorola Wave

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



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:

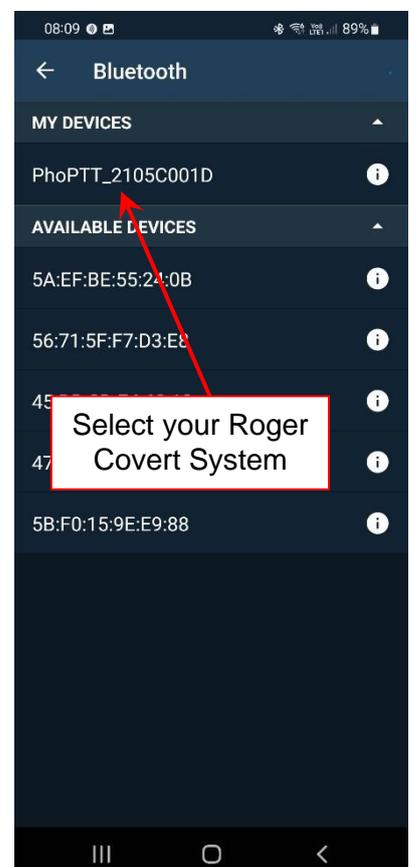
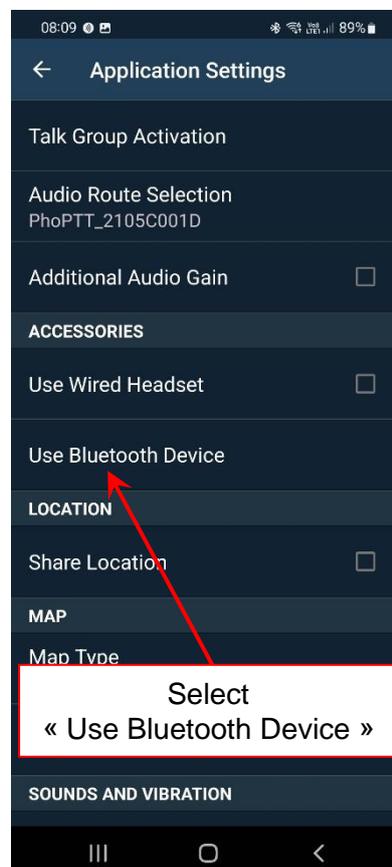
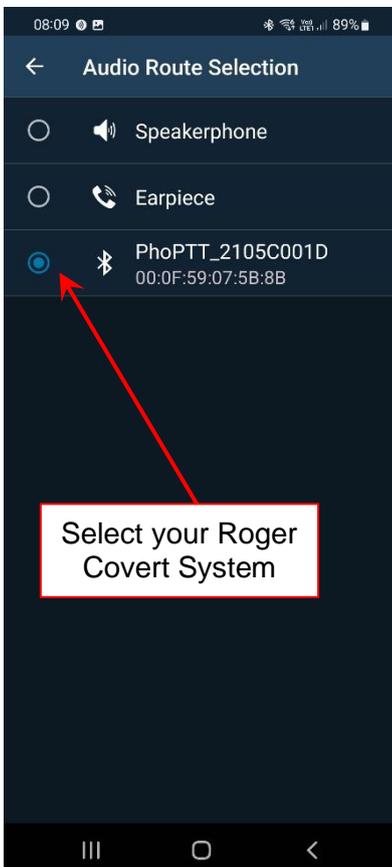
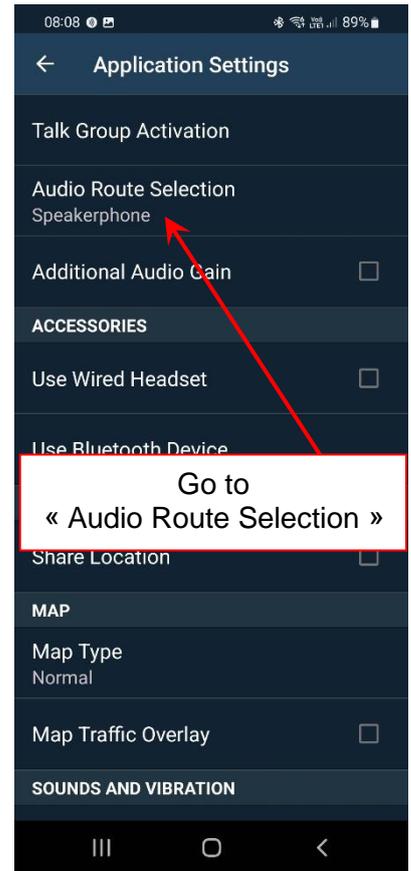
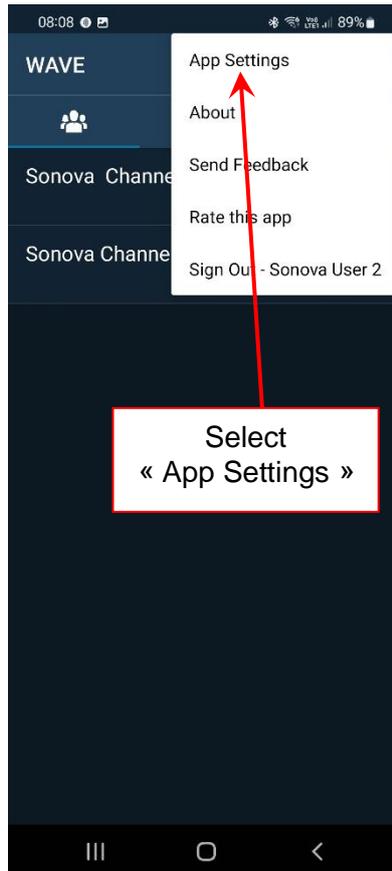
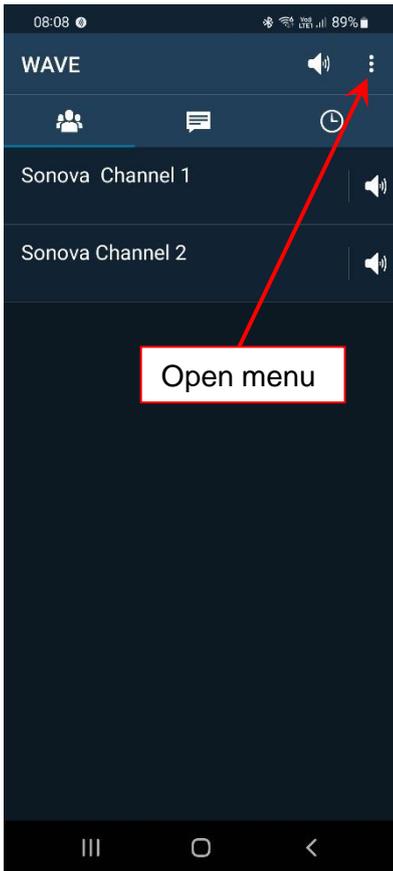
Bluetooth custom command	Generic 2 ▾
Push To Talk CH1	<input type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input checked="" type="checkbox"/>

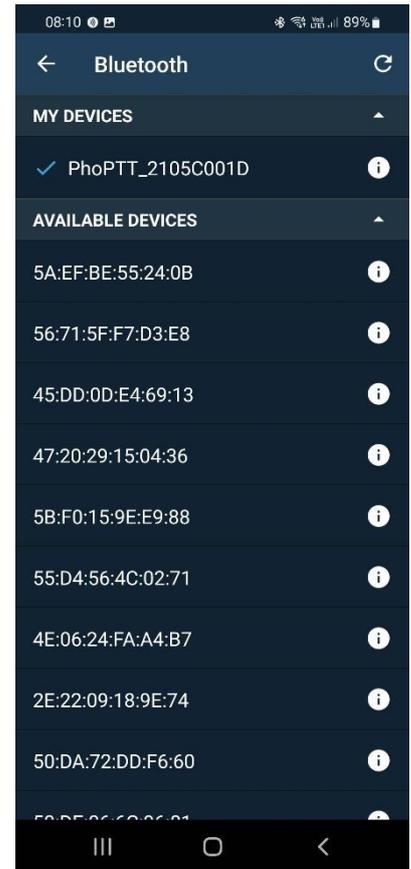
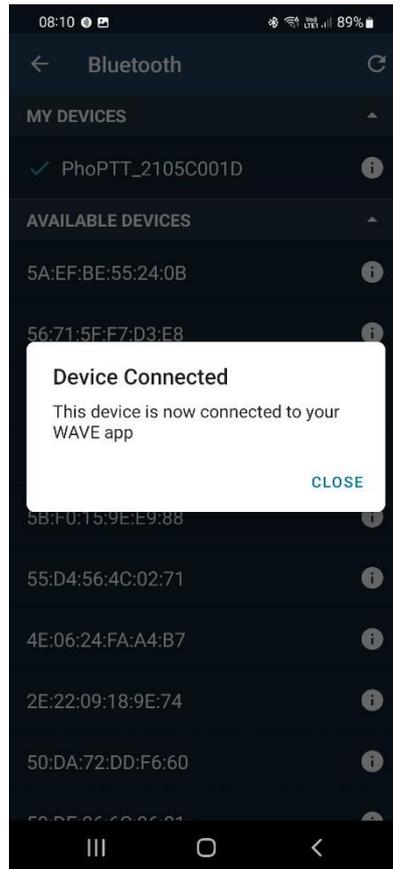
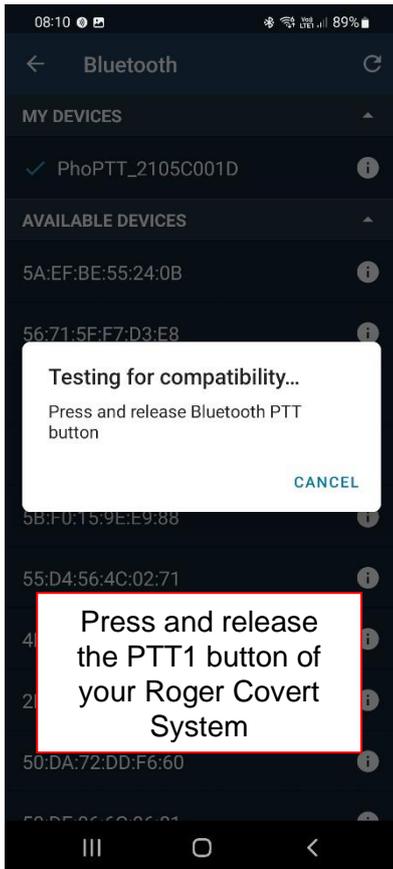
2. Bluetooth Device Name

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.

Bluetooth Device Name	Prefix	Customizable part
	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.





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:

Bluetooth custom command	Generic 3 ▼
Push To Talk CH1	<input type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input checked="" type="checkbox"/>

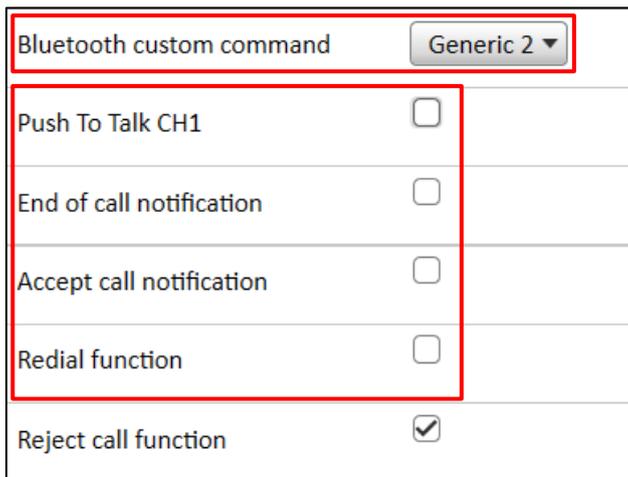
2. No special settings are required in the Team On The Run / Team On Mission apps, only to pair the Roger Covert System through the Bluetooth menu of the smartphone.

8.9. Lifeline

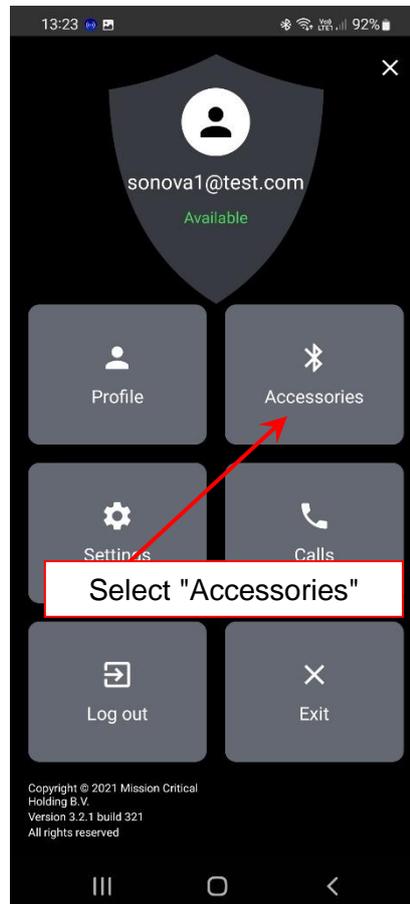
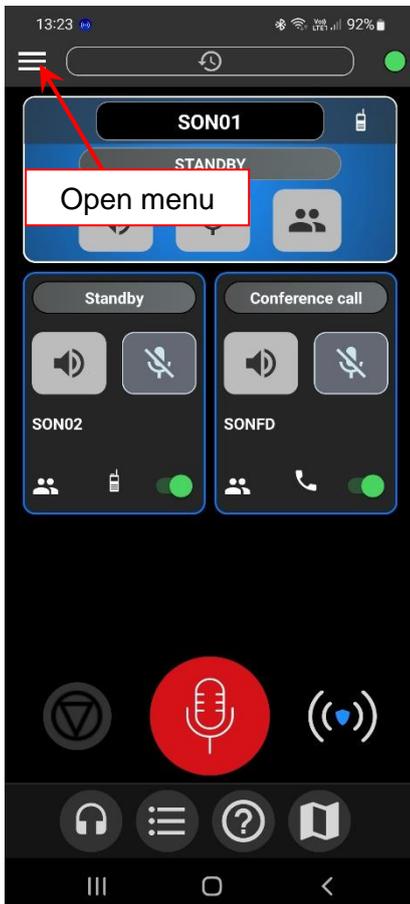
Before starting the configuration, please read the [important notice for PTT-apps](#) (section 5.)

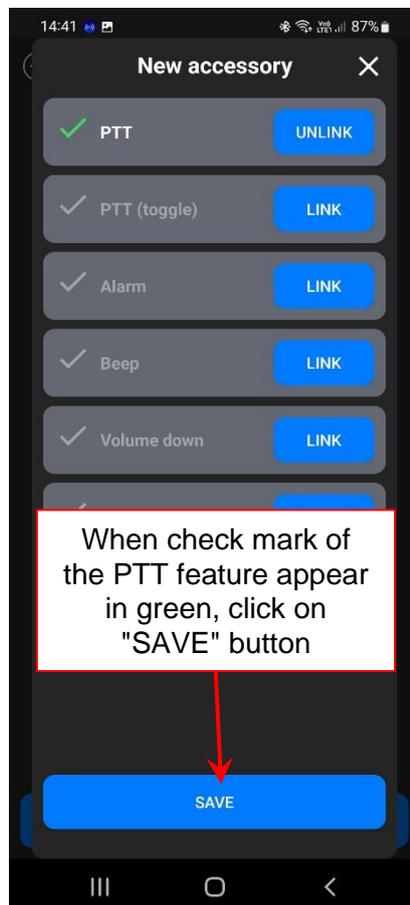
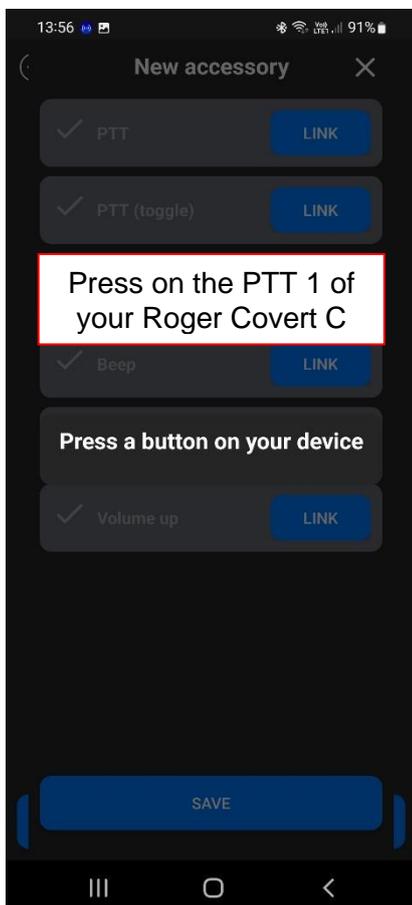
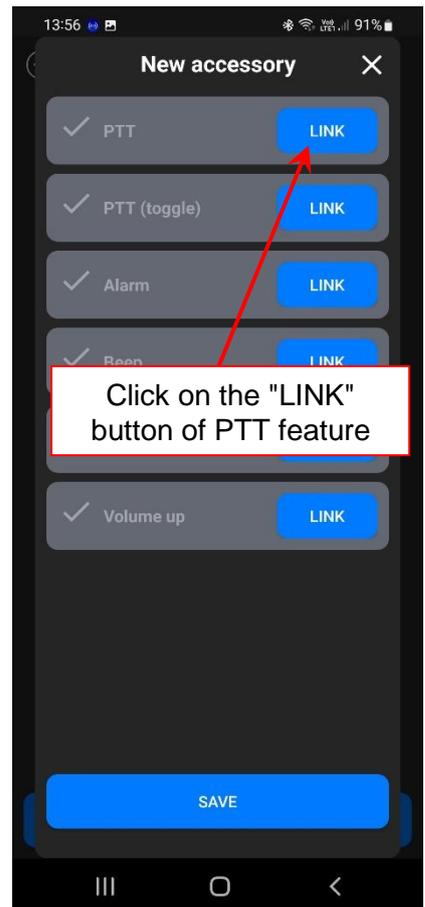
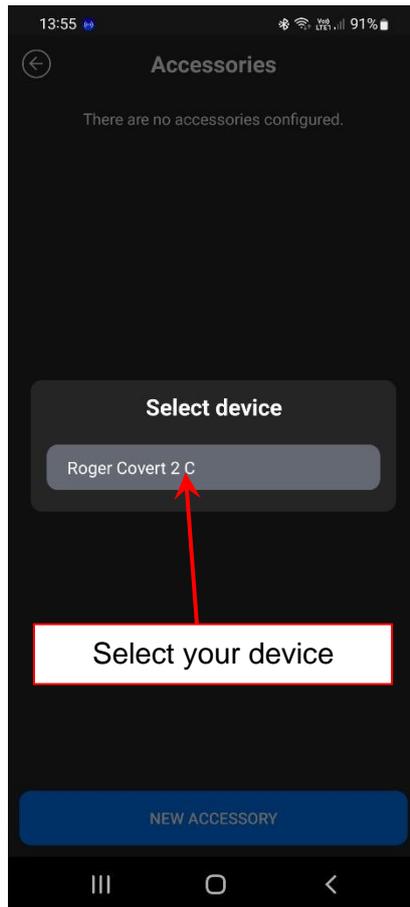
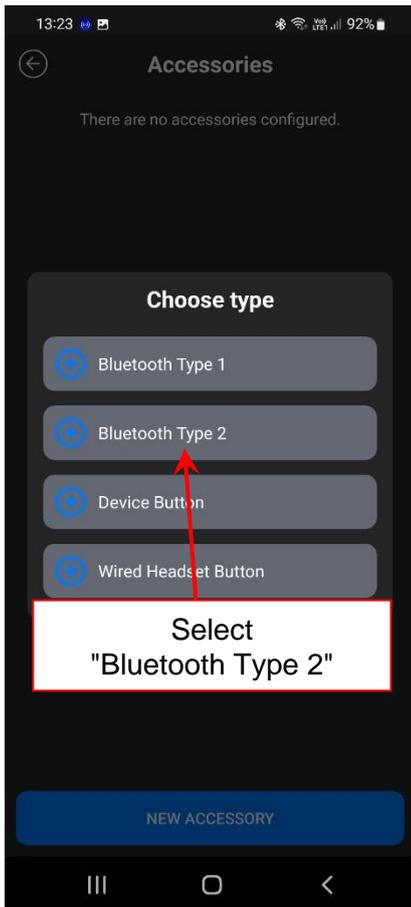
The Roger Covert System is compatible with the version 3.2.1 and above of the PTT-app Lifeline.

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:





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:

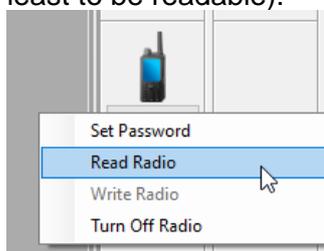
Bluetooth custom command	Motorola TETRA ▼
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

10. Radios settings

10.1. Motorola TETRA radios

10.1.1. Radio preparation

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

Field Name	Field Value	Set Default
12 Mail In	<input checked="" type="checkbox"/>	
13 Mail Out	<input checked="" type="checkbox"/>	
14 External Device	<input checked="" type="checkbox"/>	
15 Test Page	<input checked="" type="checkbox"/>	
16 PABX	<input checked="" type="checkbox"/>	

2. In “Audio Settings” section, set the “Default BT Headset” value to “BT Generic”

Field Name	Field Value	Set Default
1 Volume Control Mode	Commonly Controlled	Set Default
2 Allow Simplex Ringer Mute	<input checked="" type="checkbox"/>	
3 Allow Duplex Ringer Mute	<input checked="" type="checkbox"/>	
4 Keep Howling Suppression during Power Cycle	<input type="checkbox"/>	
5 Default GCAI CORE RSM/PHF	PMLN7541	Set Default
6 Default GCAI CORE Earpiece Only	Unassigned	Set Default
7 Default GCAI Other RSM/PHF	NON MOT PHF	Set Default
8 Default GCAI Other Earpiece Only	NON MOT EARP	Set Default
9 Default BT Headset	BT Generic	Set Default
10 Emergency Full Duplex Private Call Audio State	Low	Set Default

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

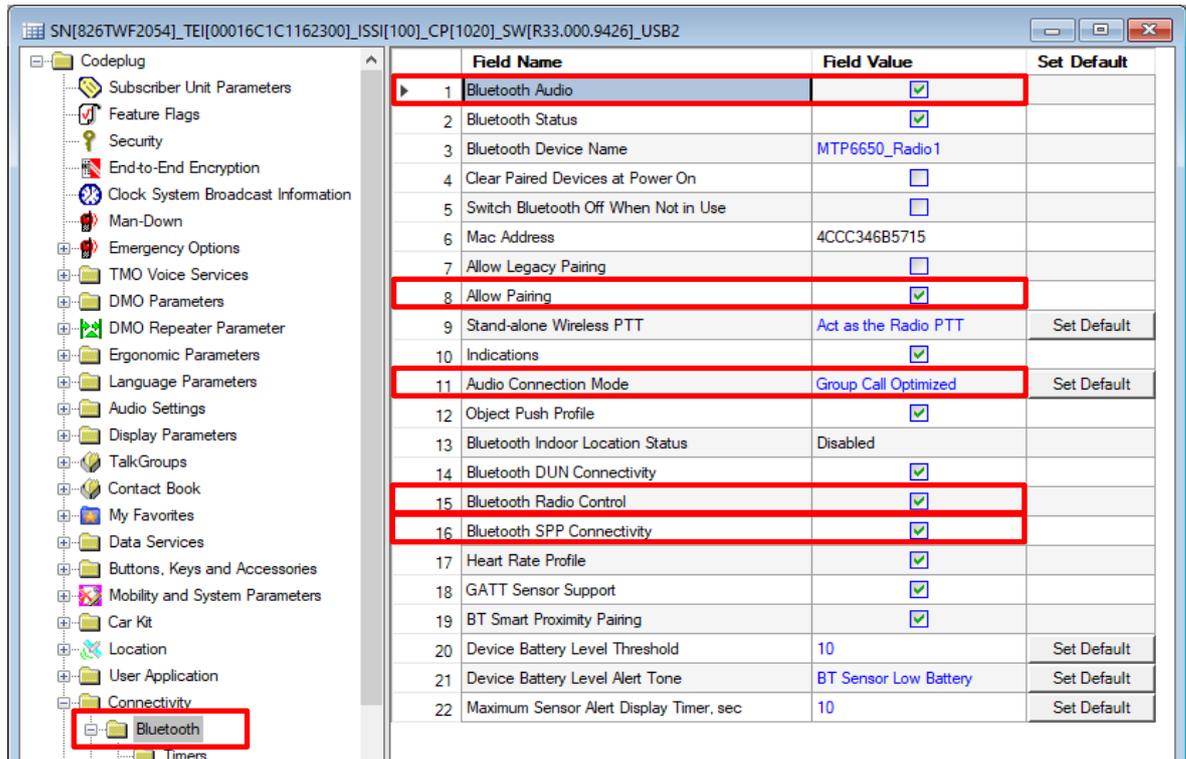
1. Go on the root of the “Bluetooth” section, and set the checkboxes as marked in red below (depending of the radio model, some parameters might not be displayed):

Field Name	Field Value	Set Default
1 Bluetooth Status	<input checked="" type="checkbox"/>	
2 Bluetooth Device Name	MXP600_Radio 1	
3 Clear Paired Devices at Power On	<input type="checkbox"/>	
4 Switch Bluetooth Off When Not in U...	<input type="checkbox"/>	
5 Mac Address	4CCC34E2C54F	
6 Allow Pairing	<input checked="" type="checkbox"/>	
7 Allow Pairing in Non-Discoverable ...	<input checked="" type="checkbox"/>	
8 Stand-alone Wireless PTT	Act as the Radio PTT	Set Default
9 Indications	<input checked="" type="checkbox"/>	
10 Audio Connection Mode	Group Call Optimized	Set Default
11 Bluetooth Indoor Location Status	Disabled	
12 Bluetooth Radio Control	<input checked="" type="checkbox"/>	
13 Heart Rate Profile	<input type="checkbox"/>	
14 GATT Sensor Support	<input type="checkbox"/>	
15 Device Battery Level Threshold	10	Set Default
16 Device Battery Level Alert Tone	BT Sensor Low Batt...	Set Default
17 Maximum Sensor Alert Display Tim...	10	Set Default
18 Secure Connection Only	<input type="checkbox"/>	

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):

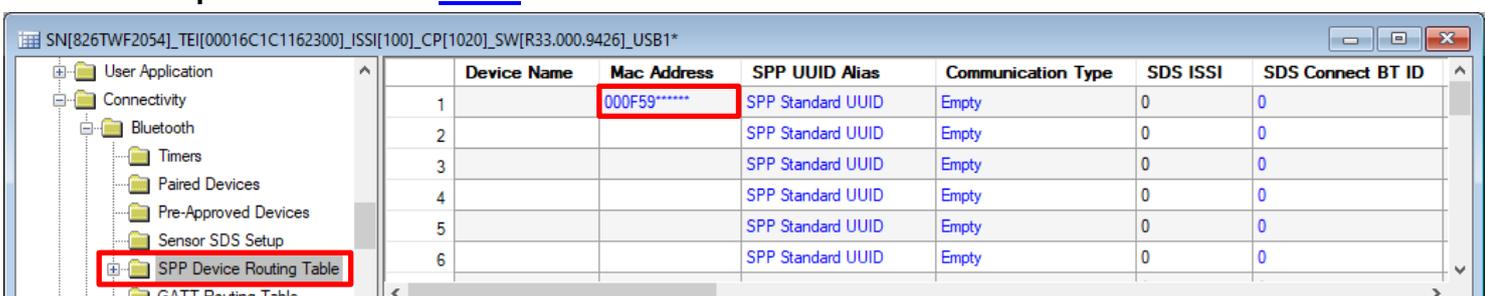


2. Go on the “SPP Device Routing Table” of the Bluetooth section. To allow all Roger Covert C to control your radio with the AT commands, enter the MAC address 000F59*****

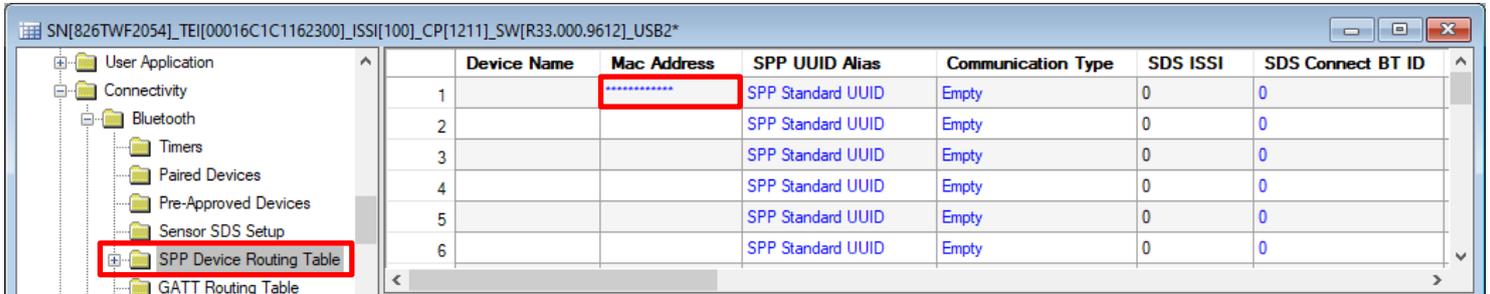
Important! The SPP routing table is not a security feature to block audio or pairing with unexpected Bluetooth devices. It only allow the listed devices to control your radio with the AT commands for the PTT feature.

To restrict the pairing 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](#).



- 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 (*****).



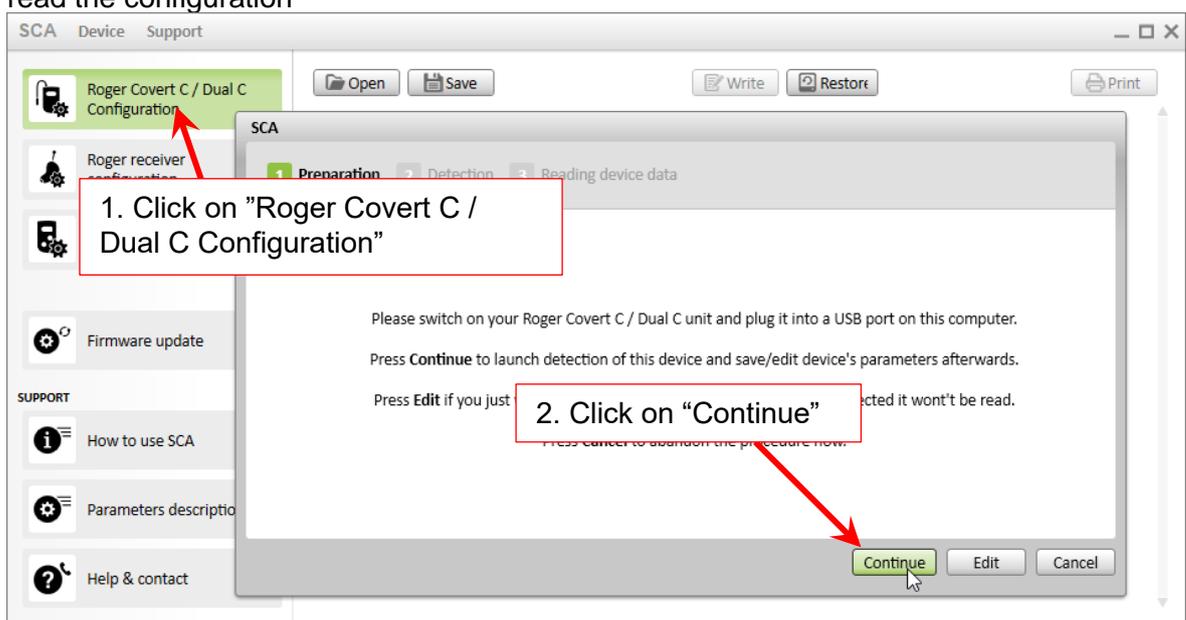
- Then select "AT_CMDS" on the "Communication Type" field:

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	AT_CMDS	0
4		SPP Standard UUID	Empty	0

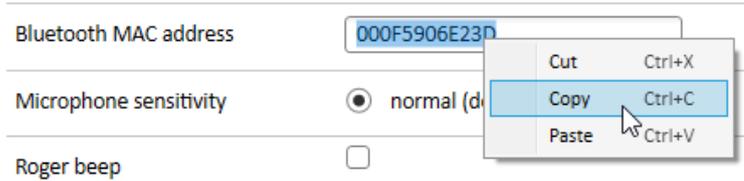
Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI
1	000F59*****	SPP Standard UUID	AT_CMDS	0
2		SPP Standard UUID	Empty	0
3		SPP Standard UUID	Empty	0

- 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 [10.1.5](#) to continue the radio setup.

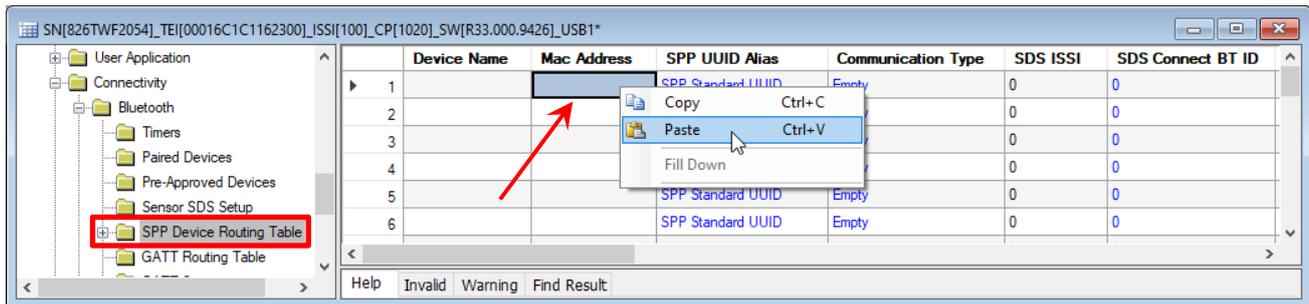
- With the help of the USB cable, connect the Roger Covert unit to your computer and read the configuration



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	0
3			SPP Standard UUID	AT_CMDS	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.

Codeplug		Field Name	Field Value
Subscriber Unit Parameters		27 Activate Always Encryption	<input type="checkbox"/>
Feature Flags		28 Covert Mode	On
Security		29 Covert Vibrate	<input type="checkbox"/>

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.

Codeplug		Field Name	Field Value
Subscriber Unit Parameters		31 Enter Pinlock-Menu Tone	<input checked="" type="checkbox"/>
Feature Flags		32 Covert Audio Accessory	<input checked="" type="checkbox"/>
Security		33 Continuous Indication of Non Secured Air Interface	<input type="checkbox"/>

- 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”

The screenshot shows a configuration window for a device with the following parameters table:

	Field Name	Field Value	Set Default
1	Bluetooth Status	<input checked="" type="checkbox"/>	
2	Bluetooth Device Name	MXP600_Radio 1	
3	Clear Paired Devices at Power On	<input type="checkbox"/>	
4	Switch Bluetooth Off When Not in U...	<input type="checkbox"/>	
5	Mac Address	4CCC34E2C54F	
6	Allow Pairing	<input type="checkbox"/>	
7	Allow Pairing in Non-Discoverable ...	<input checked="" type="checkbox"/>	
8	Stand-alone Wireless PTT	Act as the Radio PTT	Set Default
9	Indications	<input checked="" type="checkbox"/>	
10	Audio Connection Mode	Group Call Optimized	Set Default
11	Bluetooth Indoor Location Status	Disabled	
12	Bluetooth Radio Control	<input checked="" type="checkbox"/>	
13	Heart Rate Profile	<input type="checkbox"/>	
14	GATT Sensor Support	<input type="checkbox"/>	
15	Device Battery Level Threshold	10	Set Default
16	Device Battery Level Alert Tone	BT Sensor Low Batt...	Set Default
17	Maximum Sensor Alert Display Tim...	10	Set Default
18	Secure Connection Only	<input type="checkbox"/>	

The 'Bluetooth' folder in the left-hand tree is highlighted with a red box, and the 'Allow Pairing' row in the table is also highlighted with a red box.

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

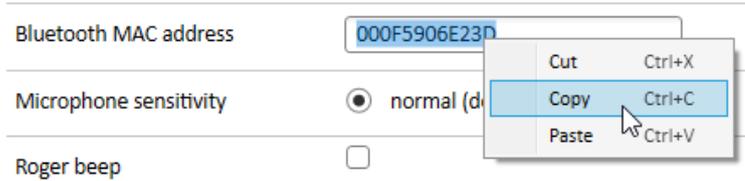
The screenshot shows the SCA software interface. A dialog box is open with the following text:

Please switch on your Roger Covert C / Dual C unit and plug it into a USB port on this computer.
Press **Continue** to launch detection of this device and save/edit device's parameters afterwards.
Press **Edit** if you just connected it and it won't be read.

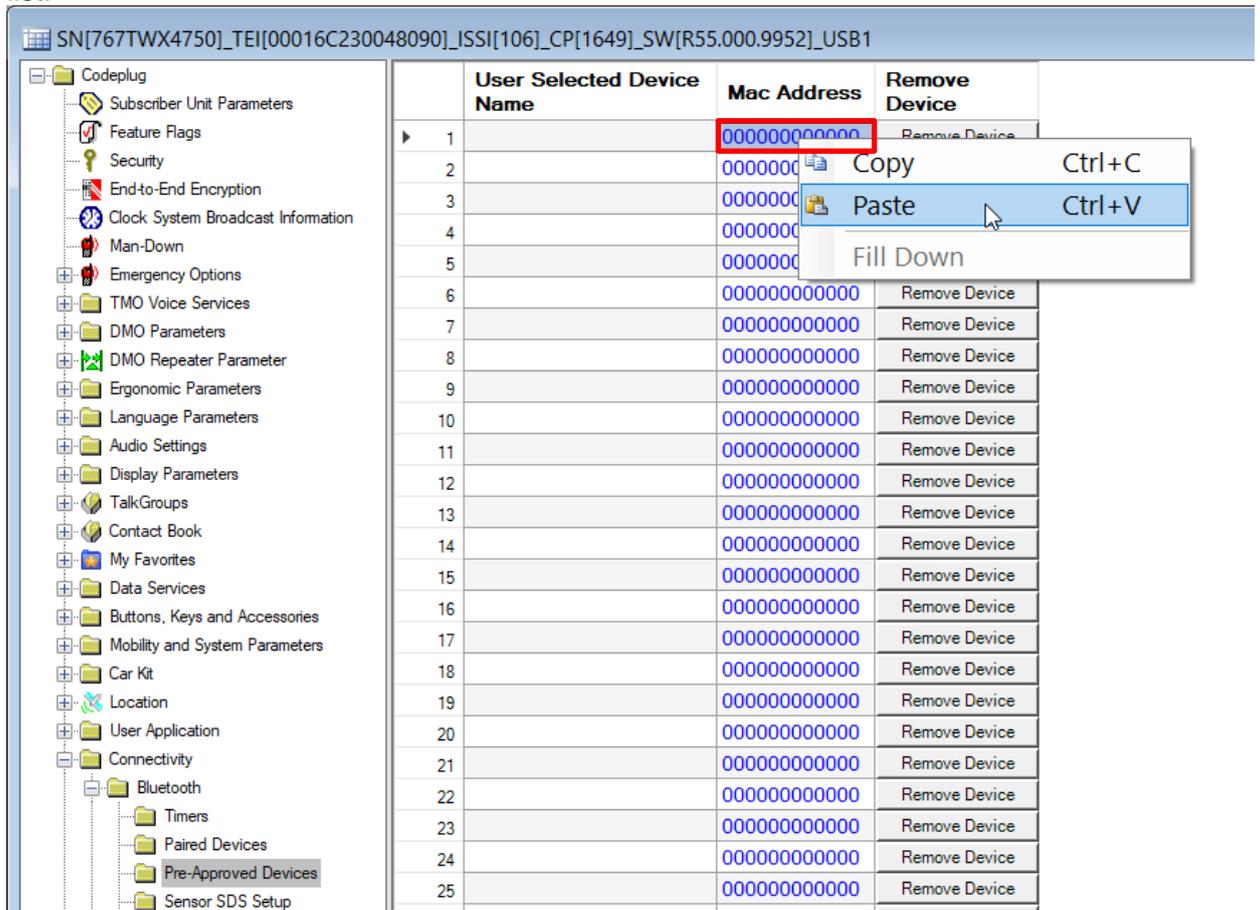
Two red boxes with arrows provide instructions:

- 1. Click on "Roger Covert C / Dual C" (pointing to the configuration item in the left sidebar).
- 2. Click on **Continue** (pointing to the Continue button in the dialog box).

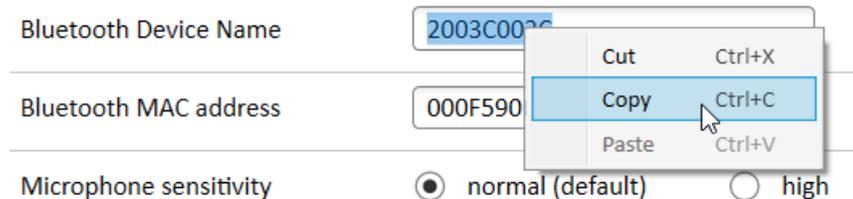
3. Select and copy the Bluetooth MAC address of the Roger Covert unit to prepare for the registration of the device on the radio through the Motorola Tetra CPS Plus software:



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:



- Paste the Bluetooth Device Name on the corresponding line:

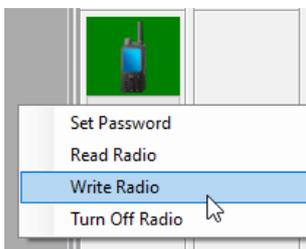
	User Selected Device Name	Mac Address	Remove Device
1		000F5906E237	Remove Device
2			Remove Device
3			Remove Device
4			Remove Device
5			Remove Device
6		000000000000	Remove Device
7		000000000000	Remove Device

	User Selected Device Name	Mac Address	Remove Device
1	2003C002C	000F5906E237	Remove Device
2		000000000000	Remove Device
3		000000000000	Remove Device

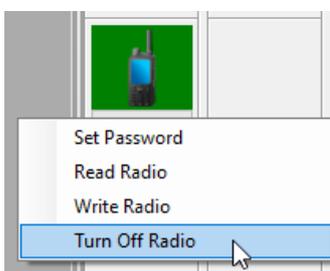
- Repeat the procedure from point 2 to point 6 to register the next Roger Covert device. You can register up to 32 devices on a radio.

10.1.7. Write radio configuration and Bluetooth pairing

- Write the configuration on the radio:



- Turn OFF the radio through the Motorola Tetra CPS Plus software before disconnecting the radio:



- 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.

To use the Roger Covert unit with a Motorola MOTOTRBO R7, the Motorola licenses “**HKVN4522 Bluetooth 5.2**” and “**HKVN4465A Mototrbo Bt Accessory Commands Radio**” need to be activated on each radio. Motorola R7 firmware version **R02.24.02.1005** or above is required. Be aware that only **Motorola R7 Capable** and **R7 Premium** are compatible, R7a model don't have any Bluetooth connection.

Proceed to the configuration of the Roger Covert C with SCA software ([refer to paragraph 9. 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:

Bluetooth custom command	Motorola Wave ▼
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

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:

Bluetooth custom command	Airbus-Hytera ▼
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

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

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

Bluetooth custom command	Airbus-Hytera
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

- Ensure to have the latest version of the Airbus Taqto software to configure your radio.
- Open the Airbus Taqto software and configure the PTT Bluetooth AT commands on the radio as shown below:

Bluetooth Settings	
BT name	TR-BT
Link Supervision Timeout	3
Connectable	60
Discoverable Timeout	0
User Confirmation For Reconnection	<input type="checkbox"/>
Audio Devices Allowed	<input checked="" type="checkbox"/>
Data Devices Allowed	<input checked="" type="checkbox"/>
PTT down AT command	AT+BPTT=1
PTT up AT command	AT+BPTT=0
Dual Connection Device Name	
Dual Connection PTT down command	
Dual Connection PTT up command	
Hands Free Profile	<input type="checkbox"/>
Audios Always On	<input type="checkbox"/>
Input Gain	18dB
Output Gain	-21dB

- 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:

Bluetooth custom command	Sepura-Kenwood ▼
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

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):

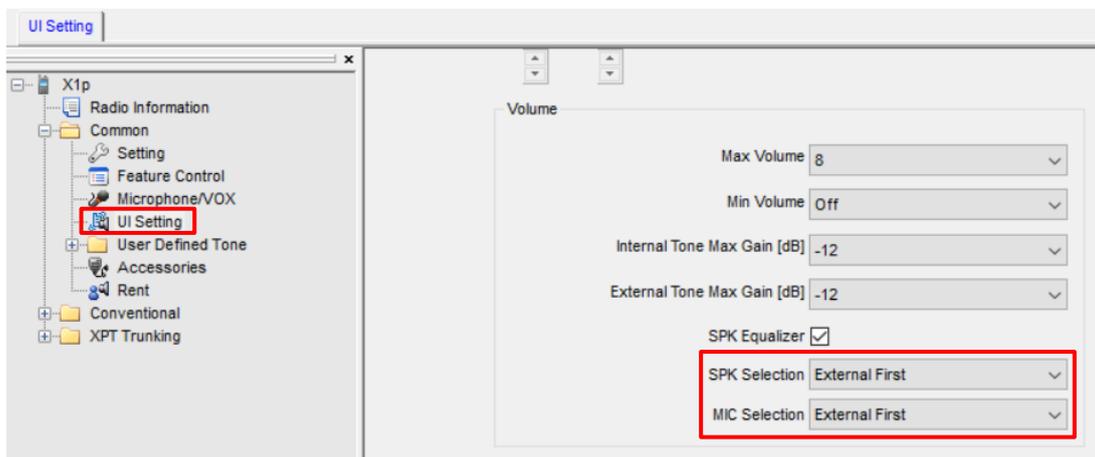


4. Pairing and connection is done.

10.7. Hytera X1p radios

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

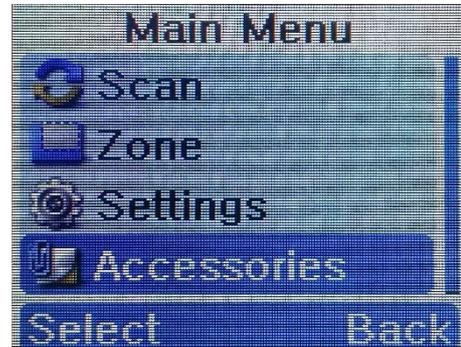
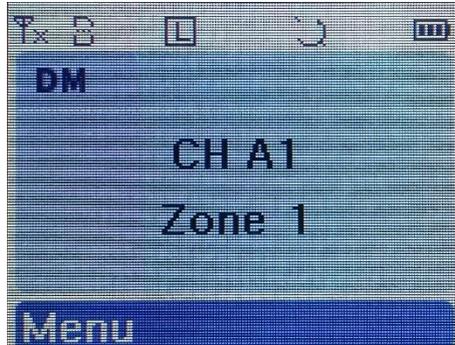
2. Ensure to have the required firmware installed on your radio:
 - Bluetooth chip firmware: V1.01.030 or above
 - Radio firmware: A9.02.01.013 or above
3. Open the software Hytera CPS and configure the speaker and microphone selection settings to use the external device.
In the “UI setting” section, set:
 - a. SPK Selection on “External First”
 - b. MIC Selection: “External First” or “Follow PTT” (see detail below)



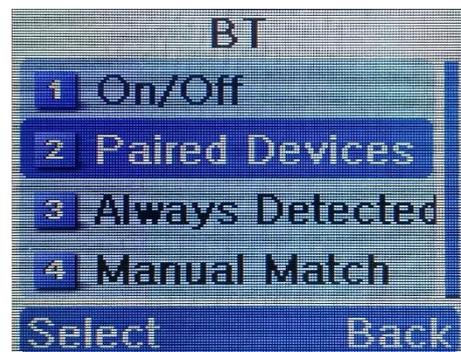
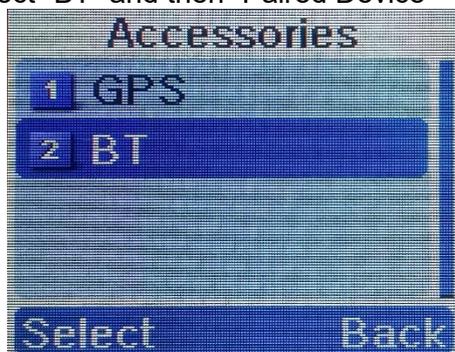
MIC selection	PTT used	Microphone used	
		Roger Covert C connected	Roger Covert C disconnected
Follow PTT	Radio PTT	Radio Mic	Radio Mic
	Roger Covert PTT	Roger Covert C Mic	N/A
External First	Radio PTT	Roger Covert C Mic	Radio Mic
	Roger Covert PTT	Roger Covert C Mic	N/A

4. Proceed to the pairing with the radio through the radio's menu according to the steps below:

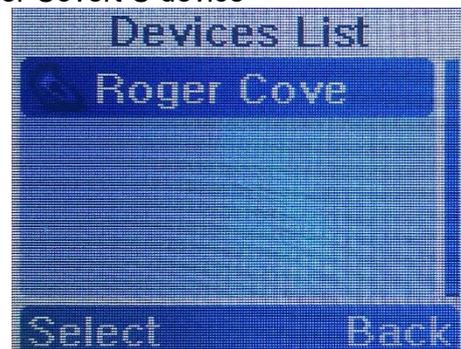
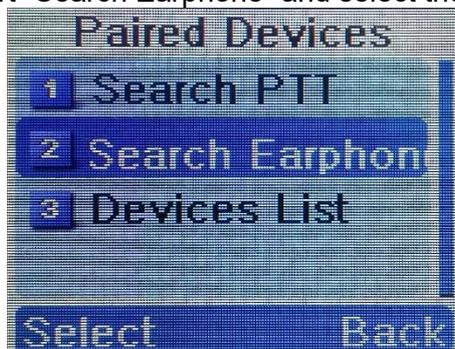
Open the menu and then select "Accessories"



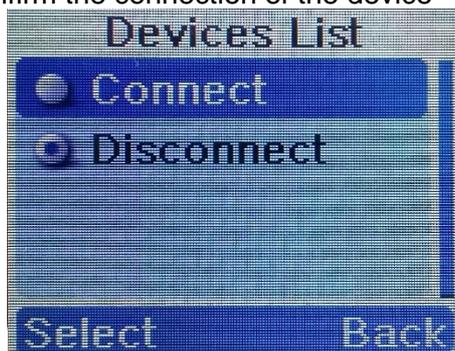
Select "BT" and then "Paired Device"



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



Confirm the connection of the device



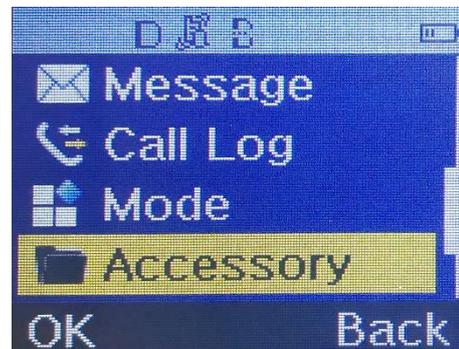
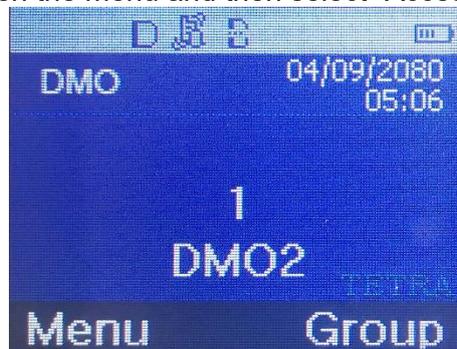
10.8. Hytera Z1p radios

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

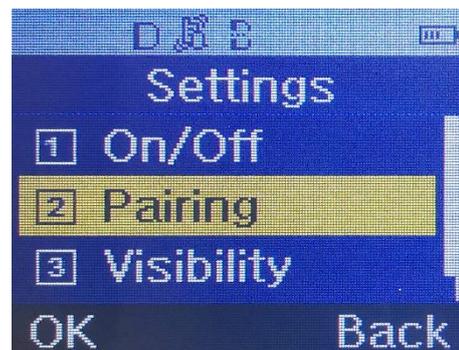
Bluetooth custom command	Airbus-Hytera ▼
Push To Talk CH1	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

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:

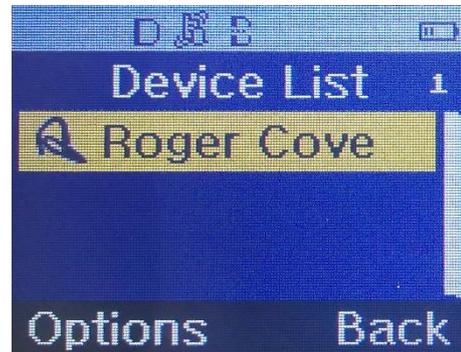
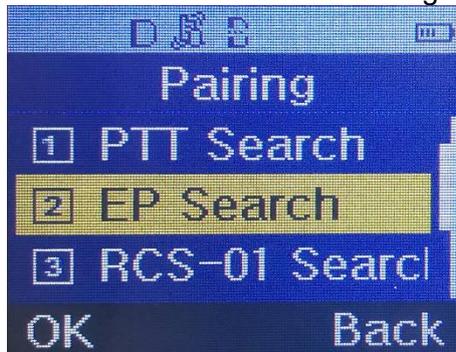
Open the menu and then select “Accessory”



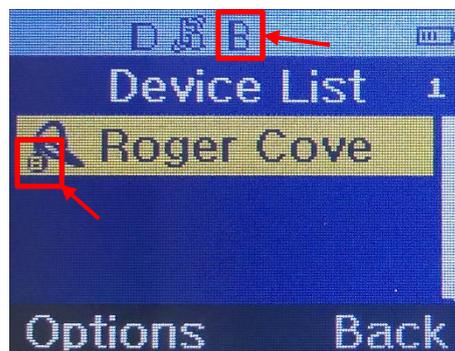
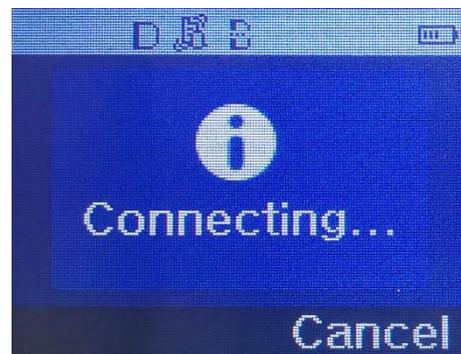
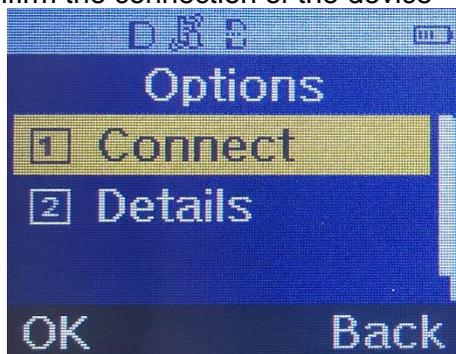
Select “BT” and then “Pairing”



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	<input checked="" type="checkbox"/>
End of call notification	<input type="checkbox"/>
Accept call notification	<input type="checkbox"/>
Redial function	<input type="checkbox"/>
Reject call function	<input checked="" type="checkbox"/>
Switch network function	<input checked="" type="checkbox"/>

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	<p>Recommendation to remove “End of call” and “Accept call” notification for PTT-apps with Iphones devices (section 5.)</p> <p>Update of instructions for Group Talk according app version 3.7.40p and above.</p> <p>Update of instructions for TASSTA according app version 5.6.64.2 and above.</p> <p>Improvement of instructions for Motorola Tetra radio and add pairing restrictions features (section 10.1).</p>
3.11	25.02.2025	Add Motorola R7