## Roger Covert System Technical Note



**Configuration for radios and PTT-apps** 

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## 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
  - BT Control
  - BT Audio & Object Push 626
  - 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
	Sepura-Kenwood
End of call notification	Airbus-Hytera
Accept call notification	PrymeBlu
Redial function	TASSTA
	Zello
Reject call function	GroupTalk
Switch network function	ESChat
	Instant Connect
Product name	Motorola Wave
Serial number	MOTOTRBO
Hardware version	Motorola TETRA
	Generic 1
Firmware version	Generic 2
Total of hard reset	Generic 3
Total usage time (hours)	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.





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

Push To Talk CH1

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

End of call notification

5. Summary of recommended settings

Roger C	overt C / Dual C	Open 💾	Save
	ration	Client first name	
configur	ration	Client name	
Roger R configur	emote C / Dual C ration	Bluetooth Device Name	PhoPTT_Roger Cov
		Bluetooth MAC address	
<b>O</b> <sup>O</sup> Firmwar	re update	Microphone sensitivity	onrmal (default)
SUPPORT		Roger beep	
<b>1</b> <sup>■</sup> How to	use SCA	Volume adjustment beep	$\mathbf{\nabla}$
<b>A</b> =		Vibrator control	$\mathbf{\nabla}$
Parame	ters description	Tone feedback	
Help &	contact	Tone delay	○ 0.5"
		Bluetooth link notification	$\mathbf{\nabla}$
		Bluetooth custom command	Zello 🔻
		Push To Talk CH1	
		End of call notification	
		Accept call notification	
		Redial function	
		Reject call function	$\checkmark$

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.



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## 8. PTT-apps settings

## 8.1. Zello

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





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

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## 8.2. ESChat

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



## **PHONAK** communications

## 8.3. TASSTA

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



#### Select Hot-buttons to display





### 8.4. GroupTalk

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







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## 8.5. Instant Connect Enterprise

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



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Default Audio Device Device PhoPTT_2105C001D Push to Talk Accessory Bluetooth Device None Push to Talk Notifications Tage uplums	<b>▲</b> 67
Default Audio Device Device PhoPTT_2105C001D Push to Talk Accessory Bluetooth Device None Push to Talk Notifications Tone volume X	
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Default Audio Device Device PhoPTT_2105C001D Push to Talk Accessory Bluetooth Device None Push to Talk Notifications Tone volume X Warning, let Device" of "Pu Accessory" se "None". This setting is Bluetooth Low	Bluetooth ush to Talk ection on used for v Energy
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Default Audio Device Device PhoPTT_2105C001D Push to Talk Accessory Bluetooth Device None Push to Talk Notifications Tone volume X Warning, let Device" of "Pu Accessory" se "None". This setting is Bluetooth Lov accessories o Telepnone can Channel Added	Bluetooth ush to Talk ection on used for v Energy unly
Default Audio Device Device PhoPTT_2105C001D Push to Talk Accessory Bluetooth Device None Push to Talk Notifications Tone volume X Warning, let Device" of "Push Accessory" se "None". This setting is Bluetooth Lov accessories o Telephone call Channel Added Alert Received	Bluetooth ush to Talk ection on used for v Energy nly
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Push to Talk Denied			
Push to Talk Ended			
Other Notifications			
Tone volume			
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Alert Received			
Incoming Text Meccag	0		
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## 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	
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.



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







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Talk Group Activation	
Audio Route Selection PhoPTT_2105C001D	
Additional Audio Gain	
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Use Wired Headset	
Use Bluetooth Device	
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← Bluetooth	C
MY DEVICES	
PhoPTT_2105C001D	0
AVAILABLE DEVICES	
5A:EF:BE:55:24:0B	0
56:71:5F:F7:D3:E8	0
Device Connected	
This device is now connec WAVE app	ted to your
· · · · · · = · · F F	
	CLOSE
5B:F0:15:9E:E9:88	CLOSE
58:F0:15:9E:E9:88 55:D4:56:4C:02:71	CLOSE
5B:F0:15:9E:E9:88 55:D4:56:4C:02:71 4E:06:24:FA:A4:B7	CLOSE
5B:F0:15:9E:E9:88 55:D4:56:4C:02:71 4E:06:24:FA:A4:B7 2E:22:09:18:9E:74	CLOSE
5B:F0:15:9E:E9:88 55:D4:56:4C:02:71 4E:06:24:FA:A4:B7 2E:22:09:18:9E:74 50:DA:72:DD:F6:60	CLOSE
5B:F0:15:9E:E9:88 55:D4:56:4C:02:71 4E:06:24:FA:A4:B7 2E:22:09:18:9E:74 50:DA:72:DD:F6:60	CLOSE

## **PHONAK** communications

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47:20:29:15:04:36	•
5B:F0:15:9E:E9:88	•
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#### 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	
End of call notification	
Accept call notification	
Redial function	
Reject call function	

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:



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## 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	$\checkmark$
End of call notification	
Accept call notification	
Redial function	
Reject call function	
Switch network function	

## 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
  - BT Audio & Object Push 626
  - 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:

IIII SN[826TWF2054]_TEI[00016C1C1162300]_ISSI[100]_CP[1020]_SW[R33.000.9426]_USB1*									
E Codeplug		Field Name	Field Value	Set Default					
Subscriber Unit Parameters	12	Mail In							
	13	Mail Out	<b>V</b>						
	14	External Device	<b>V</b>						
End-to-End Encryption	15	Test Page	<b>V</b>						
Clock System Broadcast Information     Map.Down	16	PABX							

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

IIII SN[632TUD0694]_TEI[00016C190064000]_ISSI[100]_CP[1020]_SW[R37.000.9426]_USB1*										
⊡ Codeplug	^			Field Name	Field Value	Set Default				
		•	1	Volume Control Mode	Commonly Controlled	Set Default				
🚽 🖓 Feature Flags			2	Allow Simplex Ringer Mute						
Security			3	Allow Duplex Ringer Mute	Image: A start of the start					
End-to-End Encryption			4	Keep Howling Suppression during Power Cycle						
Clock System Broadcast Information			5	Default GCAI CORE RSM/PHF	PMLN7541	Set Default				
Man-Down			6	Default GCAI CORE Earpiece Only	Unassigned	Set Default				
TMO Voice Services			7	Default GCAI Other RSM/PHF	NON MOT PHF	Set Default				
			8	Default GCAI Other Earpiece Only	NON MOT EARP	Set Default				
Ergonomic Parameters			9	Default BT Headset	BT Generic	Set Default				
Language Parameters			10	Emergency Full Duplex Private Call Audio State	Low	Set Default				
Audio Settings										

#### 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):

IIII SN[767TWX4750]_TEI[00016C230048090]_ISSI[106]_CP[1649]_SW[R55.000.9952]_USB1							
⊡ · 📄 Codeplug 			Field Name	Field Value	Set Default		
	►	1	Bluetooth Status				
Security		2	Bluetooth Device Name	MXP600_Radio 1			
End-to-End Encryption		3	Clear Paired Devices at Power On				
Clock System Broadcast Information		4	Switch Bluetooth Off When Not in U				
Man-Down		5	Mac Address	4CCC34E2C54F			
Emergency Options		6	Allow Pairing				
DMO Parameters		7	Allow Pairing in Non-Discoverable				
		8	Stand-alone Wireless PTT	Act as the Radio PTT	Set Default		
Ergonomic Parameters		9	Indications				
		10	Audio Connection Mode	Group Call Optimized	Set Default		
🖶 🧰 Audio Settings		11	Bluetooth Indoor Location Status	Disabled			
🗄 💼 Display Parameters		12	Bluetooth Radio Control				
🗄 🧼 TalkGroups		13	Heart Rate Profile				
🖶 🏈 Contact Book		14	GATT Sensor Support				
🕀 💼 My Favorites		15	Device Battery Level Threshold	10	Set Default		
Data Services		16	Device Battery Level Alert Tone	BT Sensor Low Batt	Set Default		
Buttons, Keys and Accessories		17	Maximum Sensor Alert Display Tim	10	Set Default		
Hobility and System Parameters		10	Secure Connection Only		Corboldan		
	┡	10	Secure connection only				
Bluetooth							
Timers							



2. Go to section <u>10.1.5</u> 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):

SN[826TWF2054]_TEI[00016C1C1162300]_I	SSI[100]_0	CP[1	020]_SW[R33.000.9426]_USB2		
⊡ein Codeplug	^		Field Name	Field Value	Set Default
	►	1	Bluetooth Audio		
		2	Bluetooth Status		
💡 Security		3	Bluetooth Device Name	MTP6650_Radio1	
End-to-End Encryption		4	Clear Paired Devices at Power On		
Clock System Broadcast Information		5	Switch Bluetooth Off When Not in Use		
Man-Down		6	Mac Address	4CCC346B5715	
Emergency Options		7	Allow Legacy Pairing		
TMO Voice Services		0			
DMO Parameters		0	Stand along Wireless PTT	Act as the Padia PTT	Set Default
DMO Repeater Parameter		9			Set Default
		10	Indications		
		11	Audio Connection Mode	Group Call Optimized	Set Default
		12	Object Push Profile		
Uisplay Parameters		13	Bluetooth Indoor Location Status	Disabled	
		14	Bluetooth DUN Connectivity		
		15	Bluetooth Radio Control		
		16	Bluetooth SPP Connectivity		
		17	Heart Rate Profile		
		18	GATT Sensor Support	 ✓	
		19	BT Smart Proximity Pairing		
		20	Device Battery Level Threshold	10	Set Default
User Application		21	Device Battery Level Alert Tone	BT Sensor Low Battery	Set Default
		22	- Maximum Sensor Alert Display Timer, sec	10	Set Default
			······································		

 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 <u>10.1.6 Pairing</u> 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.

IIII SN[826TWF2054]_TEI[00016C1C1162300]_ISSI[100]_CP[1020]_SW[R33.000.9426]_USB1*											
User Application	^		Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI	SDS Connect BT ID	^		
Connectivity		1		000F59*****	SPP Standard UUID	Empty	0	0			
⊟ 📄 Bluetooth		2			SPP Standard UUID	Empty	0	0	Ť		
Timers		3			SPP Standard UUID	Empty	0	0	1		
Paired Devices		4			SPP Standard UUID	Empty	0	0	Ť		
Pre-Approved Devices		5			SPP Standard UUID	Empty	0	0	+		
Sensor SDS Setup		6			SPP Standard UUID	Empty	0	0	+		
E SPP Device Routing Table									+		
GATT Routing Table		<							2		



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 (\*\*\*\*\*\*\*\*\*\*).

r										
III SN[826TWF2054]_TEI[00016C1C1162300]_ISSI[100]_CP[1211]_SW[R33.000.9612]_USB2*										
🗄 💼 User Application	~		Device Name	Mac Address	SPP UUID Alias	Communication Type	SDS ISSI	SDS Connect BT ID	^	
Connectivity		1		******	SPP Standard UUID	Empty	0	0		
🖶 🧰 Bluetooth		2			SPP Standard UUID	Empty	0	0		
Timers		3			SPP Standard UUID	Empty	0	0	+	
Paired Devices		4			SPP Standard UUID	Empty	0	0	1	
Pre-Approved Devices		5			SPP Standard UUID	Empty	0	0	+	
Sensor SDS Setup		6			SPP Standard UUID	Empty	0	0	+	
SPP Device Routing Table		0				Linpty			÷M	
GATT Bouting Table	<b>`</b>								-	

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	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 <u>10.1.5</u> 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:

Bluetooth MAC address	000F5906E23D			_
		Cut	Ctrl+X	L
Microphone sensitivity	Inormal (delated)	Сору	Ctrl+C	
		Paste	GCtrl+V	H
Roger beep				

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

III SN[826TWF2054]_TEI[00016C1C1162300]_ISSI[100]_CP[1020]_SW[R33.000.9426]_USB1*											
User Application	^		Dev	ice Name	Mac Addre	SS	SPP UUID Alias	Communication Type	SDS ISSI	SDS Connect BT ID	^
Connectivity		•	1				SPP Standard HUID	Empty	0	0	
Bluetooth			2		1	-	Copy Ctrl+C		0	0	1
Timers			3			2	Paste Ctrl+V	· · · · · · · · · · · · · · · · · · ·	0	0	+
Paired Devices			4		/		Fill Down		0	0	+
Pre-Approved Devices			5	/		_	SPP Standard UUID	Empty	0	0	+
Sensor SDS Setup			5	•			CDD Chandrad UUUD	Empty	0	0	+
⊕ · 📄 SPP Device Routing Table			6				SPP Standard UUID	Empty	U	U	
GATT Routing Table	~	<									>
< · · · · · · · · · · · · · · · · · · ·		Help	Invali	d Warning	Find Result						

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.

⊡ in Codeplug		Field Name	Field Value
	27	Activate Always Encryption	
Feature Flags	28	Covert Mode	On
Security	29	Covert Vibrate	

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
	31	Enter Pinlock-Menu Tone	
	32	Covert Audio Accessory	<ul><li>✓</li></ul>
·····¥ Security	33	Continuous Indication of Non Secured Air Interface	

o 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

SCA	Device Support		_ 🗆 ×
r,	Roger Covert C / Dual Configuration	Copen Save	Print
k R	1. Click	On "Roger	
	Covent	J / Dual C	
ذ	Firmware update	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.	
SUPPORT		Press Edit if you just 2 Click on cted it wont't be read.	
0	How to use SCA		
0	Parameters descriptio		
Ø	Help & contact	Continue Edit Ca	ancel

---- Timers



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:

Bluetooth MAC address	000F5906E23D			_
		Cut	Ctrl+X	l.
Microphone sensitivity	normal (delated)	Сору	Ctrl+C	
		Paste	GCtrl+V	ŀ
Roger beep				

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

▶ 1 2 3 4 5 6	Name	00000000 🛱 Co 0000000 🛱 Co 0000000 Pi 0000000 Fi	Device  Remove Device  Dopy  aste  Down	Ctrl+C Ctrl+V
▶ 1 2 3 4 5 6		00000000000000000000000000000000000000	Berroue Device	Ctrl+C Ctrl+V
2 3 4 5 6		0000000 🖆 Co 0000000 🏝 Pa 0000000 Fi	opy aste 💦	Ctrl+C Ctrl+V
3 4 5 6		0000000 🕰 Pa	aste 💦	Ctrl+V
4 5 6		0000000 Fi		
5		0000000 Fi	ll Down	
6				
		00000000000	Remove Device	
7		000000000000	Remove Device	
8		000000000000000000000000000000000000000	Remove Device	
9		000000000000000000000000000000000000000	Remove Device	
10		000000000000000000000000000000000000000	Remove Device	
11		0000000000000	Remove Device	
12		0000000000000	Remove Device	
13		0000000000000	Remove Device	
14		000000000000000000000000000000000000000	Remove Device	
15		000000000000000000000000000000000000000	Remove Device	
10		000000000000000000000000000000000000000	Remove Device	
17		000000000000000000000000000000000000000	Remove Device	
10		000000000000000000000000000000000000000	Remove Device	
18		000000000000	Remove Device	
19		000000000000000000000000000000000000000	Remove Device	
20		000000000000000000000000000000000000000	Remove Device	
21		0000000000000	Remove Device	
22		000000000000000	Remove Device	
23		0000000000000	Remove Device	
24		000000000000	Remove Device	
	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7         8         9         10         11         12         13         14         15         16         17         18         19         20         21         22         23         24         25	7         000000000000000000000000000000000000	7         000000000000000000000000000000000000

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

	tri+v
Paste C	
Bluetooth MAC address 000F590 Copy C	trl+C
Bluetooth Device Name Cut C	Ctrl+X



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

		User Selecte Name	ed D	evice	Mac Addre	ess	Remove Device	
•	1		_		000550065	727	Pomovo Do	-ice
	2			Сору	/	(	Ctrl+C	се
	3		2	Paste	2	(	Ctrl+V	ce
	4				3			ce
	5			Fill D	own			ce
	6		_		000000000	000	Remove Dev	/ice
	7				00000000	000	Remove Dev	/ice

	User Selected Device Name	Mac Address	Remove Device
1	2003C002C	000F5906E237	Remove Device
2		00000000000000	Remove Device
3		000000000000000	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:



2. Turn OFF the radio through the Motorola Tetra CPS Plus software before disconnecting the 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.

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 (<u>refer to paragraph 9.</u> <u>Roger Covert unit configuration for Radios through Bluetooth</u>), 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	
End of call notification	
Accept call notification	
Redial function	
Reject call function	
Switch network function	

- 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	
End of call notification	
Accept call notification	
Redial function	
Reject call function	
Switch network function	

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:

Bluetooth custom command	Airbus-Hytera 🔻
Push To Talk CH1	
End of call notification	
Accept call notification	
Redial function	
Reject call function	
Switch network function	

- 4. 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:

   Terminal configuration

Diddiooungo	
BT name	TR-BT
Link Supervision Timeout	3
Connectable	60
Discoverable Timeout	0
User Confirmation For Reconnection	
Audio Devices Allowed	
Data Devices Allowed	
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	
Audios Always On	
Input Gain	18dB
Output Gain	-21dB
	BT name Link Supervision Timeout Connectable Discoverable Timeout User Confirmation For Reconnection Audio Devices Allowed Data Devices Allowed PTT down AT command PTT up AT command PTT up AT command Dual Connection PTT down command Dual Connection PTT up command Hands Free Profile Audios Always On Input Gain Outbut Gain

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:

Bluetooth custom command	Sepura-Ke	enwood 🕶
Push To Talk CH1		
End of call notification		
Accept call notification		
Redial function		
Reject call function		
Switch network function		

- 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:

Bluetooth custom command	Airbus-Hytera 🔻
Push To Talk CH1	$\checkmark$
End of call notification	
Accept call notification	
Redial function	
Reject call function	
Switch network function	$\checkmark$

- 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)

UI Setting 	
Radio Information	Volume
😑 🗁 Common	
& Setting	Max Volume 8
Feature Control	
	Min Volume Off 🗸 🗸
🖓 🛄 UI Setting	
User Defined Tone	Internal Tone Max Gain [dB] -12 ~
Rent	External Tone Max Gain [dB] -12 V
Conventional	
	SPK Equalizer 🗹
	SPK Selection External First ~
	MIC Selection External First ~

		PTT used	Microphone used	
	MIC selection		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
	Enternal Einst	Radio PTT	Roger Covert C Mic	Radio Mic
	External First	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:



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



<u>Nac</u>

Select



### 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	
End of call notification	
Accept call notification	
Redial function	
Reject call function	0
Switch network function	

- 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:





#### Start "EP Search" and select the Roger Covert C device DAR lii b m ) 口 尉 马 **Device List** Pairing 1 **Roger Cove PTT** Search 1 **EP** Search RCS-01 Searc 17 Options Back Back OK Confirm the connection of the device DRR 口居名 in k tin þ Options Connect Details 2 Connecting... Cancel Back OK n i **Device** List 1 **Roger Cove** Options Back



## 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	$\checkmark$

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
	40.04.0000	Mobile Communicator application
3.9	10.01.2023	Add notice about "Nearby devices" permission since Android
		12 (section 5.)
		Lindete of instructions for Instant Operant Estampics
		Update of instructions for instant Connect Enterprise
		according app version 3.2.1 and above.



3.10	16.05.2024	Recommendation to 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.
		Improvement of instructions for Motorola Tetra radio and add pairing restrictions features (section 10.1).
3.11	25.02.2025	Add Motorola R7