

TALKABOUT™ TWO-WAY RADIO T800/T801 SERIES USER GUIDE



DECEMBER 2023

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MN009246A01-AB

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The European Union's WEEE directive and the UK's WEEE regulation require that products sold into EU countries and the UK must have the crossed-out wheeled bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheeled bin label means that customers and end users in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end users in EU and UK countries should contact their local equipment supplier representative or service center for information about the waste collection system in their country.

Disclaimer

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of a specific mobile subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

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Safety and Compliance Information



NOTE:

- Before using this radio, read this booklet which contains important operating instructions.
- For information on product details, brochures, user manuals, and approved accessories. Please refer to <https://www.motorolasolutions.com>.

Compliance with RF Exposure Standards

National and international regulations require manufacturers to comply with the RF energy exposure limits for portable two-way radios before they can be marketed. Your Motorola Solutions two-way radio is designed, manufactured, and tested to comply with all applicable national and international regulations for human exposure to radio frequency electromagnetic energy.

RF Energy Exposure Awareness and Control Information and Operational Instructions for General Population and Uncontrolled Environment Use

For more information on what RF energy exposure is, see the following websites:

- <https://www.fcc.gov/>
- <https://www.who.int/health-topics/electromagnetic-fields/>
- <https://www.who.int/teams/environment-climate-change-and-health/radiation-and-health/bstations-wirelesstech>
- <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html>
- <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html>

For additional information, see https://www.motorolasolutions.com/en_us/about/company-overview/corporate-responsibility.html.

Acoustic Safety



CAUTION: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the volume of the radio, the sooner your hearing will be affected. Hearing damage from loud noise is sometimes undetectable at first, and can have a cumulative effect.

To protect your hearing:

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.

Medical Devices



CAUTION: If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Operational Warnings

The following explains the operational warnings:

For Vehicle with Air Bags



WARNING:

- Refer to your vehicle manufacturer's manual before installation of electronic equipment to avoid interference with air bag wiring.
- Do **not** place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres



WARNING:

- Do **not** carry a radio that is not certified for Hazardous Locations into a potentially explosive atmosphere. It could result in a serious injury or death. You should only use a radio certified for hazardous locations in potentially explosive atmospheres.
- Explosive atmospheres refer to hazard classified locations that may contain hazardous gas, vapors, dusts, such as fueling areas below decks on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles such as grain, dust, or metal powders. Areas with potentially explosive atmospheres are often, but not always, posted.
- Do **not** remove, install, or charge batteries in such areas, or remove or install antennas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Blasting Caps and Blasting Areas



WARNING: To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas posted: "Turn off Two-Way radio." Obey all signs and instructions.

Batteries



CAUTION: Use only Motorola Solutions approved batteries.

- Risk of explosion if the battery is replaced by an incorrect type.
- Charge your battery using the approved Motorola Solutions charger.
- Connect the charger/power supply to a nearby and easily accessible power outlet.
- Charge only Li-Ion type rechargeable batteries. Other types of batteries may burst, causing personal injury or damage. Turn off radio before charging.
- Use the battery in accordance with its water and/or dust Ingress Protection (IP) rating.
- Do **not** discard your battery into a fire.
- Do **not** replace the battery in any area labeled "Hazardous Atmosphere".
- Do **not** disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- Do **not** dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
- Do **not** allow conductive material such as jewelry, keys, or beaded chains to touch exposed battery terminals.

- Do **not** dispose of batteries with household waste.

Safety Instruction for Power Supply

1. The power supply is for use with equipment according to IEC/EN/UL 62368-1/60950-1.
2. The power supply is for indoor use in dry locations.
3. The equipment should be connected to a nearby and easily accessible socket outlet.
4. If the power supply is damaged or defective, do not repair or use the power supply.
5. For more details, please refer to https://www.motorolasolutions.com/en_xu/support/emea-compliance.html#phnav_other-products.

Do Not Substitute Options or Accessories

The Motorola Solutions communications equipment certified as intrinsically safe by the approving agency (UL, CSA, CENELEC) is tested as a complete system which consists of the listed agency Approved portable, Approved battery, and Approved accessories or options, or both. This Approved portable and battery combination must be strictly observed. There must be no substitution of items, even if the substitute has been previously Approved with a different Motorola Solutions communications equipment unit. Approved configurations are listed by the Approving Agency (UL, CSA, CENELEC).

The Hazardous Location-Approved Label affixed to radio refers to the intrinsically safe classification of that radio product, and the approved batteries that can be used with that system.

The manual part number referenced on the Hazardous Location-Approved Label identifies the approved Accessories and or options that can be used with that portable radio unit.

Using a non-Motorola Solutions-Hazardous Location-Approved battery and/or accessory with the Motorola Solutions approved radio unit will void the Hazardous Location approval of that radio unit.

Class B Digital Device

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:



NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.


Notice to Users (FCC and ISED)

This device complies with Part 15 of the FCC rules and Innovation, Science, and Economic Development Canada (ISED) license-exempt RSS's per the following conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

Supplier's Declaration of Conformity

	<p>Supplier's Declaration of Conformity Per FCC CFR 47 Part 2 Section 2.1077(a) Responsible Party Name: Motorola Solutions, Inc. Address: 2000 Progress Pkwy, Schaumburg, IL 60196. Phone Number: 1-800-927-2744 Hereby declares that the product: Model Name: T800 and T801 conforms to the following regulations: FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a).</p>
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Chapter 1

Radio Overview

This chapter explains the buttons and functions of the radio.

1.1

Radio Controls

Figure 1: Radio Control Functions

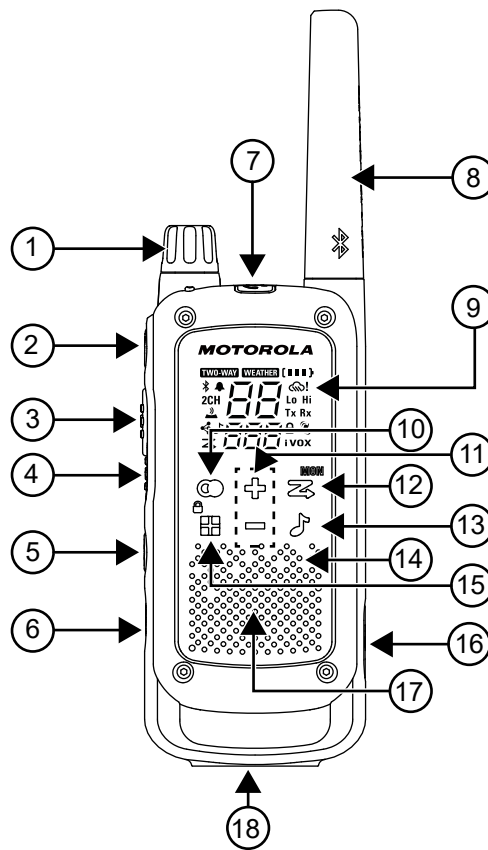


Table 1: Radio Controls

Item Number	Name
1	Power/Volume Knob
2	Flashlight Button
3	Push-to-Talk (High)
4	Push-to-Talk (Low)
5	Easy Pairing/Location Sharing Button

Item Number	Name
6	Emergency Button
7	Accessory Port
8	Antenna
9	Hidden Segmented LED Display
10	Mode Button
11	+ and - buttons
12	Scan/Monitor
13	Call Tone
14	Menu/Lock
15	Microphone
16	Micro-USB Charging Port
17	Speaker
18	Space for Personalization Stickers

1.2

Status Display

This chapter explains the icons on the display of the radio.

Figure 2: LED Icons and Indicators

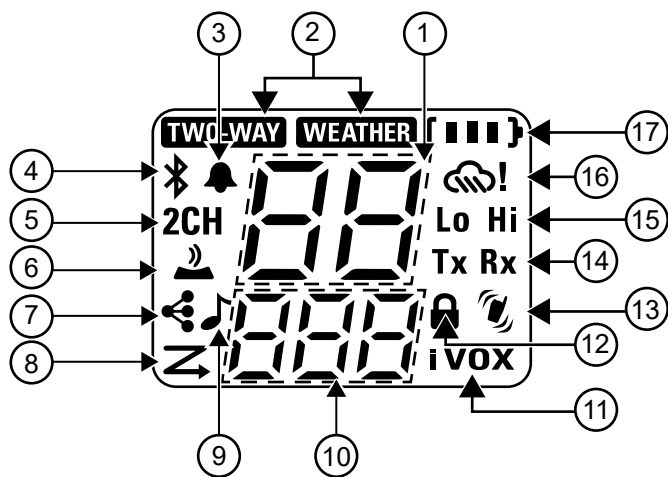


Table 2: Radio Icon Descriptions

Item Number	Description
1	Channel
2	Mode
3	Roger Tone [On/Off]
4	Bluetooth [On/Off]

Item Number	Description
5	Dual Watch [On/Off]
6	Keypad Tone [On/Off]
7	Easy Pairing [On/Off]
8	Scan
9	Call Tone [number]
10	Interference Eliminator Code Number (used for Call Tone) On/Off OFF/L1/L2/L3 (used for iVOX and VOX)
11	iVOX [OFF, L1, L2, L3] VOX [OFF, L1, L2, L3]
12	Keypad Lock
13	Vibracall [On/Off]
14	Status (Transmit/Receive)
15	Power (High-Low)
16	Weather Alert
17	Battery (3 Battery Levels)

Chapter 2

Getting Started

This chapter provides instructions on how to prepare your radio for use.

2.1

Personalized Stickers

16 stickers are provided to personalize and keep track of your radios. Use a permanent marker to mark blank stickers.

2.2

Installing Batteries

The radio can use either one NiMH rechargeable battery pack or three AA alkaline batteries. The radio beeps when the battery levels are low.

Prerequisites: Discard the loose retailer tag, which is in one of the battery compartments.

Procedure:

1. Turn the radio off.
2. To unlock the battery cover, face the back of the radio and push the latch on the battery cover to the left.
3. For the NiMH battery pack, insert the battery pack by following the instructions on the battery pack. For AA alkaline batteries, insert the batteries.



CAUTION: Observe the polarity of the batteries.



NOTE: The ribbon should be underneath the battery pack or batteries and must wrap around the right side of the pack or batteries for easy removal.

4. To lock the battery cover, close the battery cover and push the latch to the right.

2.3

Charging The Battery

The micro-USB charger allows you to charge your NiMH battery pack from a wall power outlet.

Prerequisites: Turn off your radio.

Procedure:

1. Plug the micro-USB cable into the charging port on your radio.

2. Connect the USB charging cable to a power source.

The battery meter bar scrolls when the battery is charging.

 **NOTE:**

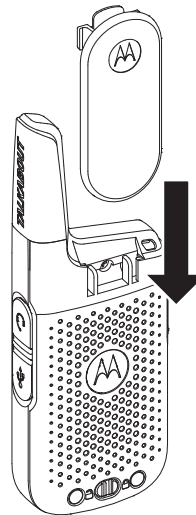
- An empty battery will be fully charged in 11 hr.
- When moving between hot and cold temperatures, do not charge the NiMH battery pack until the battery temperature acclimates, which usually takes about 20 minutes.
- For optimal battery life, remove the radio from the charger within 16 hours. Do not store the radio while connected to the charger.

2.4

Attaching the Belt Clips

Procedure:

1. Attach the belt clip to the belt clip slot at the back of the radio until the clip clicks in place.



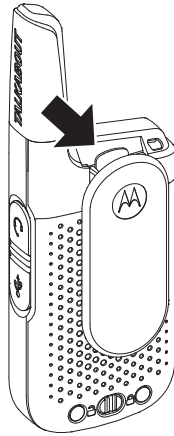
2. Attach the belt clip to your pocket or belt strap until the clip clicks in place.

2.5

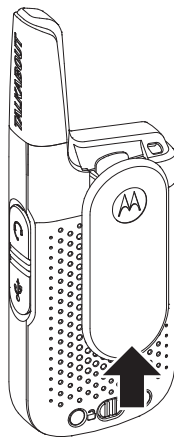
Removing the Belt Clips

Procedure:

1. To release the latch, pull the release tab on top of the belt clip.



2. Push the belt clip with your other hand towards the top of the radio.



2.6

Turning the Radio On and Off

Turning the Radio On

Procedure:

To turn on the radio, rotate the **Power/Volume** knob clockwise.

- The radio chirps and briefly shows all feature icons available on the radio.
- The display screen shows the current channel, code, and all features that are enabled. The radio is now in the Two-Way mode.

Turning the Radio Off

Procedure:

To turn off the radio, rotate the **Power/Volume** knob counterclockwise.

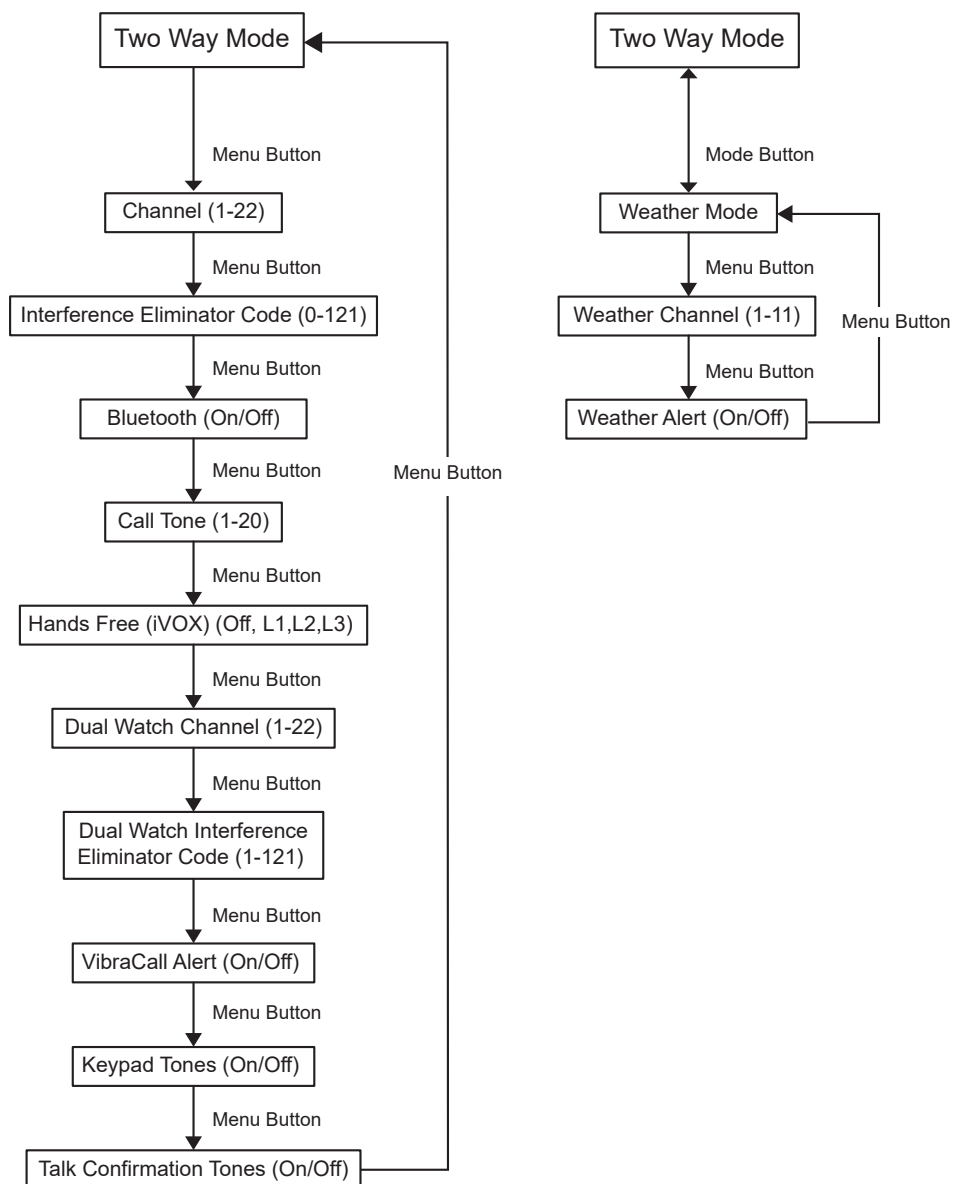
Chapter 3

Navigating the Menu Pages

Procedure:

1. Use the **Menu** button to scroll through the menu options.
2. To select the menu page, press the **PTT** button.
Your radio will return to the home screen.

Figure 3: Flowchart of Menu Options








3.1

Operations in the Menu Screen

This section shows you the operations available in the menu screen and its instructions.

Table 3: Menu Pages Description

Menu Page	Use the + or - button to perform the following actions:
Call Tone Setting 	Start or stop Call Tone transmission.
Monitor MON	Start or stop monitoring the air-wave. You can hear signals transmitted on the channel setting of your radio. If there is no signal, you can hear static.
Scan 	Start or stop scanning the air-wave. Radio scans all the channels one after another. When a signal is detected, you hear the signal on the speaker and the radio displays the channel of the detected signal.
Adjust VOX/iVOX VOX/iVOX	To change the Voice Operated Transmission (VOX) setting, select OFF or L1 to L3 . L3 is the most sensitive. Use L3 in quiet environments.
Adjust Roger Tone 	Enable or disable the roger tone.  NOTE: Roger tone is a beep tone that you hear when PTT is released.
Adjust Channel (Channel number blinks)	Change the radio channel setting.
Adjust Code (Code number blinks)	Change the radio code setting.
Adjust Auto Key Lock	Change the Auto Key Lock setting.
Weather Radio (HOME) WEATHER	When the weather channel display is on (not blinking), use the + or - buttons to change speaker volume setting, or you can use the Menu button to make the weather channel blink. When the weather channel blinks, the + or - buttons to change the weather channel setting.
Adjust Weather Alert 	Turn weather alert feature on or off.

Chapter 4

Radio Usage

This section shows the ways you can use your radio.

4.1

Selecting Channels

For more details, see [Channels and Frequencies on page 31](#).

Procedure:

1. Turn on the radio and press the **Menu/Lock** button until the channel number blinks.
 - When the radio is on the 0.5 W channel, the **Lo** icon is displayed.
 - When the radio is on the 2 W channel, the **Hi** icon is displayed.
 - The current channel blinks.
2. To change the channel, press the + or - button.
Pressing and holding the keys allows you to scroll through the channel rapidly.
3. To confirm the channel and exit menu, press the **PTT** button.
You can continue the set-up by pressing the **Menu/Lock** button.

4.2

Selecting the Interference Eliminator Codes

Interference Eliminator Codes help minimize interference by blocking transmissions from unknown sources. Your radio has 121 Interference Eliminator Codes. Codes 1–38 are standard analog codes that appear on other Family Radio Service (FRS) radios. Codes 39–121 are additional digital codes added for superior interference protection. 0 is the off position with analog or digital codes not enabled.

Procedure:

1. Press the **Menu/Lock** button until the code starts to blink.
2. To select the code, press the + or - button.
Pressing and holding the keys allows you to scroll through the codes rapidly.
3. To save the code setting and exit Menu, press the **PTT** button.
You can continue the set-up by pressing the **Menu/Lock** button.



NOTE:

You can set a different code for each channel using this procedure.

On a radio that uses Interference Eliminator Codes, the code must be set to **0** to communicate with radios that do not have Interference Eliminator Codes. Select 0 from the radio display to disable tone and code.

4.3

Switching Modes

Procedure:

To switch between the Two-Way and Weather modes, press the **Mode** button.

Result:

- When the radio is in Two-Way mode, the `TWO-WAY` icon is displayed.
- When the radio is in Weather mode, the `WEATHER` icon is displayed.
- Corresponding settings and information are shown on the display.

4.4

Talking and Listening

This chapter provides information on how to use your radio for communication.

Prerequisites:

Ensure that all radios in your group are set to the same channel and are on the same Interference Eliminator Code.

Procedure:

1. To talk, press and hold the **PTT** button.

When transmitting, your radio displays the following indicators:

- The radio displays `Tx` icon.
- The `TWO-WAY` icon blinks.
- If it is a high power transmission, the `Hi` icon is displayed.
- If it is a low power transmission, the `Lo` icon is displayed.
- Screen times out except for the `Tx`, `Hi`, or `Lo`, and battery icons. These icons remain lit until the **PTT** button is released.

2. To listen, release the **PTT** button.

When receiving, your radio displays the following indicators:

- The radio displays `Rx` icon.
- The `TWO-WAY` icon blinks.
- If it is a high power channel, the `Hi` icon is displayed.
- If it is a low power channel, the `Lo` icon is displayed.



NOTE: Hold the radio one inch away from your mouth and speak directly into the microphone for maximum clarity. Do not cover the microphone while speaking.



NOTE: Your radio is designed to maximize the performance and improve the transmission range. Do not use radios closer than five feet apart.

4.5

Setting the Power Level

Procedure:

To boost the power of your radio when talking, press the top portion of the **PTT** button.



NOTE:

You can conserve the energy of your battery by pushing the lower part of the **PTT** button labeled **L**.

If you are on the 467 MHz channel (see [Channels and Frequencies on page 31](#)), the radio uses low power when either portion of the **PTT** button is pressed.

4.6

Monitoring Channels

Procedure:

To enter the Monitor mode and listen for signals on the current channel, press and hold the **Scan/Monitor** button for three seconds.

4.7

Setting the Volume

Procedure:

Perform one of the following actions:

- To increase volume, turn the **Power/Volume** knob clockwise.
- To decrease volume, turn the **Power/Volume** knob counterclockwise.

To adjust the headset volume connected over Bluetooth, refer to [Connecting Bluetooth Headset-to-Radio](#).



CAUTION: Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

4.8

Setting and Transmitting Call Tones

Your radio can transmit different call tones to other radios in your group. Call tones allow you to alert other radios when you want to talk. Your radio has 20 call tones to choose.

Procedure:

1. Press the **Menu/Lock** button until the **Call Tone** icon appears.

The display shows the current call tone setting.

2. To change and listen to the call tones, press the **+** or **-** button.



NOTE: Setting the call tone to **0** disables the call tone feature.

3. To set the new call tone and exit Menu, press the **PTT** button.

You can continue the set-up by pressing the **Menu/Lock** button.

4. To transmit your call tone to other radios with the same channel and Interference Eliminator Code, press the **Call Tone** button.

4.9

Setting the Keypad Tones

You can enable or disable the speaker key tones. You hear the key tone each time you push a button.

Procedure:

1. Press the **Menu/Lock** button until the radio displays **Keypad Tone** icon.
The current on/off setting blinks.
2. To turn on or off keypad tones, press the **+** or **-** button.
3. To confirm and exit menu, press the **PTT** button.

You can continue the set-up by pressing the **Menu/Lock** button.



NOTE: The following features are not disabled when the keypad tone feature is turned off:

- Transmit timeout alert tone.
- Call tone.
- Low battery alert tone.
- The transmitted talk confirmation tone.

4.10

Transmitting a Talk Confirmation Tones

You can set your radio to transmit a unique tone when you finish transmitting, similar to saying “Roger” or “Over” to let others know you are finished talking.

Procedure:

1. Press the **Menu/Lock** button until the radio displays **Roger Tone** icon.
The current setting blinks.
2. To turn the confirmation tone on or off, press the **+** or **-** button.
3. To confirm and exit menu, press the **PTT** button.

You can continue the set-up by pressing the **Menu/Lock** button.

4.11

Turning LED Flashlight On or Off

Procedure:

1. To turn the light on, press the **Flashlight** button.
2. To turn the light off, press the **Flashlight** button again.



NOTE: You can turn off the flashlight when not in use to conserve battery power.

4.12

Locking or Unlocking the Keypad

Locking Keypad Lock

Procedure:

Press and hold the **Menu/Lock** button until the radio displays **Keypad Lock** icon.

When in lock mode, you can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, send the Emergency Alert, turn the LED flashlight on and off, and monitor channels. All other functions are locked.

Unlocking Keypad Lock

Procedure:

To unlock the radio, press and hold the **Menu/Lock** button until the **Keypad Lock** icon disappears.

Chapter 5

Advanced Features

This chapter describes advanced functions and call capabilities of the Push-to-Talk (PTT) application.

5.1

Enabling the Bluetooth Connection

The radio uses Bluetooth LE version 4.2 and is compatible with smartphones with IOS version 9 onwards and Android version 4.3 onwards. Bluetooth enables the connection between the radio and smartphone. Once your smartphone is connected to your radio over Bluetooth, the Talkabout smartphone app enables communication options beyond push-to-talk on the radio. The Talkabout app uses the T800 series radios as a modem to send messages, locations, and others through the radio frequencies to the other T800 series radio users. Bluetooth enables data transmissions. It does not enable audio transmission from the phone to radio or vice versa, nor is it used for connection to a Bluetooth headset.

Prerequisites: Turn on Bluetooth on your radio to connect with the Talkabout app installed on your smart phone.

Procedure:

1. Press the **Menu/Lock** button until the Bluetooth icon appears on your display screen.
The current Bluetooth setting flashes.
2. To change the setting, press the + or - buttons.
3. To set the Bluetooth connection and exit menu, press the **PTT** button.
You may continue the set-up by pressing the **Menu/Lock** button.

- Once Bluetooth is turned on, the Bluetooth icon appears static for 5 seconds, then moves to “Waiting to be Paired” mode.



NOTE: In “Waiting to be Paired” mode, the Bluetooth icon flashes fast for 90 sec before switching off to save battery life. Before it switches off, you receive two warning alerts (one beep at 60 seconds and two beeps at 90 sec) before Bluetooth turns off. Follow the instructions in the Talkabout app menu under `Bluetooth connection` to pair your radio.

- The Bluetooth icon appears static on your display screen for 3 seconds if pairing is successful, then moves into “Bluetooth connected” mode.
- When Bluetooth is connected, the Bluetooth icon continues blinking slowly.



NOTE: Once your radio is paired to your phone, re-pairing happens automatically as long as Bluetooth on your radio is turned on. To pair to another phone, follow the steps in the Talkabout app menu to unpair. When the Bluetooth connection between the radio and phone is lost for more than 90 sec, Bluetooth on radio is turned off to preserve battery life. Follow steps 1 to step 3 to turn your radio on again.

5.2

Configuring the iVOX or VOX

With the Internal Voice Operated Transmission (iVOX) or Voice Operated Transmission (VOX), you can begin transmission by speaking into the microphone of the radio or audio accessory instead of pressing the **PTT** button.

Table 4: Transmission Sensitivity

Classification	Description
L3	High Sensitivity for quiet environments.
L2	Medium Sensitivity for most environments.
L1	Low Sensitivity for noisy environments.

Procedure:

1. Press the **Menu/Lock** button until the radio displays **iVOX** icon.

The radio displays **VOX** icon when an audio accessory is connected.

The current setting (Off, L1–L3) blinks.

2. To select the sensitivity level, press the + or - button.
3. To exit menu, press the **PTT** button.

You can continue the set-up by pressing the **Menu/Lock** button.



NOTE: Using the iVOX or VOX causes a short delay in transmission.

5.3

Setting the Dual Watch Mode

The Dual Watch mode enables you to scan the current channel and another channel alternately.

Procedure:

1. Press the **Menu/Lock** button until the **Dual Watch** icon blinks.
The current call setting blinks.
2. To select the channel, press the + or - button. Then press the **Menu/Lock** button.
3. To select the code, press the + or - button.
4. To activate Dual Watch, press the **PTT** button or wait until time out.

The screen alternates between the Home Channel and Dual Watch Channel.

5. To end Dual Watch mode, press the **Menu/Lock** button.



NOTE: If you set the same channel and code as the current channel, the Dual Watch Mode is not enabled.

5.4

Setting the VibraCall™ Alert

The VibraCall™ is a vibrating alert that notifies you when your radio receives a message. The Vibrate Alert is triggered when you receive a call and is triggered again only if no activity occurs in 30 seconds after the previous call.

Procedure:

1. To turn the vibrating alerts on, press the **Menu/Lock** button until the radio displays the **VibraCall** icon. The current setting blinks.
2. To alternate between on and off, press the **+** or **-** button.
3. To confirm, press the **PTT** button and exit menu.
You can continue the set-up by pressing the **Menu/Lock** button.

5.5

Talkabout Application

Installing the Talkabout Application on your smartphone and connecting your smartphone to your radio over Bluetooth allows you to share your location and use text messaging, even without cell phone service. The feature also offers recording tracks and controlling the radio settings by your smartphone. This application is free and can be downloaded from the App Store for IOS devices and from Google Play for Android devices. To find the appropriate application, you can search for Motorola Talkabout Application. User instructions are embedded in the application.



NOTE: To view training videos for your T800/T801 radio, visit the following links:

- [Setting up the Talkabout application](#)
- [Preparing for a trip](#)
- [Chat and location sharing](#)
- [Recording and sharing track statistics](#)
- [Changing radio settings](#)
- [Safety features](#)

5.6

Setting the Emergency Alert Mode

The Emergency Alert feature can be used to signal members in your group of your need for urgent help. T800 series radios operate in an automatic hands-free emergency control mode for a total of 30 seconds after activating the Emergency Alert. The radios in your group automatically advance the speaker volume to the maximum setting and play a tone for eight seconds. The alert tone is emitted from your own radio speaker and the receiving radios in your group. After the eight seconds alert, any spoken words or incidental sounds at your end is transmitted to the group for 22 seconds. For the 30 seconds duration of Emergency Alert mode, the radio controls and buttons are locked to maximize reception of the emergency message.

Procedure:

1. Press and hold the **Emergency** button for three seconds.

2. To initiate the alert tone, release the button.



NOTE: You do not need to continue to hold the **Emergency** button or use the **PTT** button to transmit your message.

3. After the alert tone ends, speak into the microphone.

- Your voice or incidental sounds is transmitted.
- Your radio speaker emits a Talk Confirmation Tone after 30 seconds. Operation then returns to the normal Two-Way mode.
- If your radio is connected to the Talkabout application when an Emergency Alert is triggered, the S.O.S message that is pre-saved in your Talkabout application is sent out to everyone in range that has Talkabout application and is connected with the application. You must have the Talkabout application connected to receive the S.O.S message.

4. To customize the S.O.S message, refer to the Talkabout application in radio setting.



NOTE: All Motorola Solutions Talkabout EM, MJ, MR, MT, MU, T400, T500, T600, T800 series radio (except for the T400 model) are fully compatible with the Emergency Alert feature. Radios other than EM, MJ, MR, MT, MU, T400, T500, T600, T800 series can receive the emergency alert signal, but do not respond with adjusted volume settings, locked controls, or a warbling alert tone. Users of other radio models set to the same channel and Interference Eliminator Code hear a steady tone for eight seconds followed by the voice transmission for 22 seconds.



WARNING: The Emergency Alert feature must only be used in the event of an actual emergency. Motorola Solutions is not responsible if there is no response to the emergency alert from the receiving group.

5.7

Operating Easy Pairing

The **Easy Pairing/Location Sharing** button has dual functionalities. The Easy Pairing feature allows a group of radio users to program all their radios to the same channel and Interference Eliminator Code settings quickly and simultaneously. Anyone's radio within the group can be designated as the "Leader radio" and have its channel and Interference Eliminator Code settings transmitted and copied by all the other member radios in the group.

Procedure:

1. Pick any radio as the "Leader radio". Program the channel and Interference Eliminator Code to the desired settings on this radio. See [Scanning Channels on page 27](#) and [Selecting the Interference Eliminator Codes on page 18](#).
2. Press and hold the button on the member radios until you hear a beep to copy the channel and Interference Eliminator Code combination to all the other member radios. Release the button after the beep, and wait for the transmission from the Leader's radio.

The Easy Pairing icon on the display blinks. This confirms that the radio is in the Easy Pairing mode waiting to receive the channel and Interference Eliminator Code settings from the Leader's radio. All member radios remain in this mode for 3 min.



NOTE: A group with many radios should have all users take this step at the same time, so all radios can be programmed in one go.

3. Press and hold down the button until you hear a double beep on the Leader's radio.

At the double beep, this radio's channel and Interference Eliminator Code settings are transmitted, which are received and copied by all the other members' radios.

 **NOTE:**


- The Leader's radio must make this transmission when all the member radios are still in the Easy Pairing mode, otherwise the transmission is not be picked up.
- On the Leader's radio, do **not** to release the button on the first single beep, otherwise this radio becomes another member radio. If that happens, you can press PTT to escape, and retry step 3.

5.8

Sharing Your Location

Procedure:

To share and request location updates, short press the **Easy Pairing/Location Sharing** button once. This functionality is only activated when paired over Bluetooth to your smartphone.

 **NOTE:** The FCC does not allow automatic location sharing, therefore the user needs to share and request a location update manually. Location updates can be requested from within the Talkabout App or simply by short pressing the **Easy Pairing/Location Sharing** button.

5.9

Scanning Channels

Use scan to search the 22 channels for transmissions from unknown parties to find someone in your group who has accidentally changed channels or to quickly find unused channels for your own use.

There is a priority feature and two modes of scanning, Basic and Advanced, to make your search more effective. The Basic Scan mode uses the channel and code combinations for each of the 22 channels as you have set them, or with the default code value of 1. The Advanced Scan mode scans all channels for any and all codes, detects any code in use, and uses that code value temporarily for that channel.

Priority is given to the home channel, that is, the channel, and Interference Eliminator Code, your radio is set to when you start the scan. This means the initial channel, and code settings, is scanned more often than the other 21 channels and your radio responds quickly to any activity occurring on the home channel as a priority.

Basic Scanning

Procedure:

1. Briefly press the **Scan/Monitor** button.

The scan icon appears on the display and the radio begins to scroll through the channel and code combinations. Your radio stops scrolling when it detects channel activity that matches the channel and code combination. You can hear the transmission.

2. To respond and talk to the person transmitting, press the **PTT** button within 5 sec after the end of the transmission.

The radio resumes scrolling through the channels 5 sec after the end of any received activity.

3. To stop scanning, briefly press the **Scan/Monitor** button.

Advanced Scanning

Procedure:

1. Set the Interference Eliminator Code to **zero** or turn it off.
2. Briefly press the **Scan/Monitor** button.
 - The scan icon appears on the display and the radio begins to scroll through the channels. No Interference Eliminator Codes filters what is heard.
 - When the radio detects channel activity with **any** code (or **no** code), it stops scrolling and you can hear the transmission. Any Interference Eliminator Code that may be in use by that party is detected and displayed.
3. To respond and talk to the person transmitting, press the **PTT** button within 5 sec of the end of the transmission. The radio transmits by using the newly detected Interference Eliminator Code.
The radio resumes scrolling through the channels 5 sec after the end of any received activity.
4. To stop scanning, briefly press the **Scan/Monitor** button.

Scanning Notes

Procedure:

1. The transmission appears on the home channel if you press the **PTT** button while the radio is scrolling through inactive channels. Scanning resumes five seconds after the end of your transmission. To stop scanning at any time, press the **Scan/Monitor** button.
If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing either the **+** or **-** buttons.
2. If the radio repeatedly stops on an undesired transmission, you may temporarily remove that channel from the scan list by pressing and holding the either **+** or **-** buttons for three seconds.
You may remove more than one channel in this way.
3. To restore the removed channels to the scan list, perform one of the followings:
 - Turn the radio off and then turn on.
 - Exit and re-enter the scanning mode by pressing the **Scan/Monitor** button.



NOTE:


- You cannot remove the home channel from the scan list.
- The detected code can only be used for one transmission in Advanced Scan. You must note that code, exit scan, and set that detected code on that channel to permanently use the detected code.

5.10

Weatherproof Function

This radio is weatherproof to IP-X4 standards. The radio is splash-proof from any direction and is resistant to water and rain splashes only when the battery cover, headset accessory port, and micro-USB ports are

sealed. Open the battery compartment door or headset port cover only when the radio is dry. The use of a headset accessory should be in dry environments only.

 **NOTE:** The micro-USB adaptor is not weatherproof.

- Do not expose to rain or snow.
- Charge the radios only in a dry location.
- Do not charge wet radios.


5.11

Weather Receiver

Your radio can tune in to broadcasts by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio and Environment and Climate Change Canada (ECCC) Weather Radio.

You can listen to a weather channel or set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts. See [Weather Channels and Frequencies on page 30](#) for details. When you listen to a weather channel, you cannot use your radio in scan mode or for Two-Way communications.

Both NOAA and ECCC have transmitters located throughout the United States and Canada, respectively. These transmitters broadcast watches, forecasts, and other information 24 hours a day.

 **NOTE:** NOAA weather radio stations are assigned to cover specific areas and service may be limited. To view the appropriate transmitter for your area, check with your local weather office for frequency and details or visit <http://www.weather.gov/nwr> in the US. The use of the NOAA logo does not provide an endorsement or implied endorsement by the National Weather Service of NOAA, nor does the use of the Weather Radio logo provide an endorsement or implied endorsement by Environment and Climate Change Canada (ECCC).

5.11.1

Selecting the Weather Mode

Procedure:

To enter the Weather mode from the Two-Way mode, press the **Mode** button.

5.11.2

Setting the Weather Channel

Your radio receives weather frequencies.

Procedure:

1. In Weather mode, press the **Menu/Lock** button until the weather channel number blinks.
2. To select the appropriate channel with good reception in your area, press the **+** or **-** button.
3. To confirm the channel and exit menu, press the **PTT** button.

You can continue the set-up by pressing the **Menu/Lock** button.

5.11.3

Setting the Weather Alert

Your radio can be set to respond to the National Oceanic and Atmospheric Administration (NOAA) Weather Radio emergency messages. A special alarm tone sounds an alert and turns on the weather receiver to give you immediate weather and emergency information.

Procedure:

1. In Weather mode, press the **Menu/Lock** button twice until the Weather Alert icon is displayed.
2. To select on or off, press the **+** or **-** button.
3. To exit the weather menu set-up, press the **PTT** button or the **Menu/Lock** button.
4. To return to Two-Way mode, press the **Mode** button.

If you activate the Weather Alert and return to Two-Way mode, the radio displays the Weather Alert icon.



NOTE:

- The weather mode automatically reverts to Two-Way mode when the weather channel is activated, either manually or after receiving an alert, and no buttons are pressed for five minutes.
- The weather channel reception depends on how close you are to a transmitter and whether you are indoors or outdoors. Since weather channels are transmitted without codes, they may contain static or noise. Weather Alert does not function while actively transmitting or receiving in Two-Way mode.

5.11.4

Weather Channels and Frequencies

Table 5: Frequencies of Weather Channels

Weather Channel	Frequency
WX1	162.550 MHz
WX2	162.400 MHz
WX3	162.475 MHz
WX4	162.425 MHz
WX5	162.450 MHz
WX6	162.500 MHz
WX7	162.525 MHz
WX8	161.650 MHz
WX9	161.775 MHz
WX10	161.750 MHz
WX11	162.000 MHz

Chapter 6

Additional Information

6.1

Radio Battery Meter

The radio battery icon shows the battery charge level, from full to empty. When the radio has one bar left, or after releasing the **PTT** button, the radio chirps periodically to indicate low battery alert.

6.2

Battery Capacity Maintenance

You should charge the NiMH batteries once every three months when not in use. After a longer lapse, charging is delayed and can take up to five minutes to begin.



CAUTION: Batteries corrode over time and may cause permanent damage to your radio. Before placing the radio in storage, remove the battery. Store the NiMH batteries in temperatures between -20 °C to 35 °C, and in low humidity, to avoid damage. Avoid damp conditions and corrosive materials.

6.3

Triggering the Push-to-Talk Time-Out Timer

Procedure:

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press the **PTT** button for more than 60 continuous seconds.

6.4


Channels and Frequencies

The Family Radio Service (FRS) device is approved for USA and Canada.

Table 6: Channels and Frequencies

Channel	Frequency (MHz)	Max Power Output
1	462.5625	2.0 W
2	462.5875	2.0 W
3	462.6125	2.0 W
4	462.6375	2.0 W
5	462.6625	2.0 W
6	462.6875	2.0 W
7	462.7125	2.0 W
8	467.5625	0.5 W
9	467.5875	0.5 W

Channel	Frequency (MHz)	Max Power Output
10	467.6125	0.5 W
11	467.6375	0.5 W
12	467.6625	0.5 W
13	467.6875	0.5 W
14	467.7125	0.5 W
15	462.5500	2.0 W
16	462.5750	2.0 W
17	462.6000	2.0 W
18	462.6250	2.0 W
19	462.6500	2.0 W
20	462.6750	2.0 W
21	462.7000	2.0 W
22	462.7250	2.0 W

 **NOTE:** Power refers to the maximum allowable power as defined by FCC/ISED for each channel under FRS rules for the USA and FRS/GMRS for Canada and is not a reflection of the power specification of the radio.

Licensing Information

USA (FCC)/CANADA (ISED)

According to FCC Part 95, FRS devices do not require a license. Use of Motorola Solutions radio in Canada is subject to the rules and regulations in ISED RSS 210 and does not require a license.

Changes or modifications not expressly approved by Motorola Solutions may void the user authority granted by the FCC or ISED to operate this radio and should not be made. To comply with FCC or ISED requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component, crystal, semiconductor, etc., not authorized by the FCC or ISED equipment authorization for this radio could violate FCC or ISED rules.



NOTE: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

Warranty

Consumer Two-Way Radio Products and Accessories purchased in the United States or Canada

What Does this Warranty Cover?

Subject to the exclusions contained below, Motorola Solutions, Inc. (“Motorola”) warrants the Motorola branded consumer Two-Way radios that operate via Family Radio Service or General Mobile Radio Service (“Products”), the Motorola branded or certified accessories sold for use with these Products (“Accessories”) to be free from defects in materials and quality of work under normal consumer usage for the periods outlined below.

This limited warranty is the exclusive remedy of a consumer, and applies as follows to new Products and Accessories and purchased by consumers in the United States or Canada, which are accompanied by this written warranty.

Who Is Covered?

This warranty extends only to the first consumer purchaser, and is not transferable.

What will MOTOROLA SOLUTIONS, INC. do?

Motorola Solutions, Inc, will replace any Products or Accessories that do not conform to this warranty. We may use functionally equivalent Products or Accessories.

What Other Limitations Are There?

Any Implied Warranties, Including Without Limitation. The implied warranties of merchantability and fitness for a particular purpose, shall be limited to the duration of this limited warranty, otherwise the repair, replacement, or refund as provided under this express limited warranty is the exclusive remedy of the consumers, and is provided in lieu of all other warranties, express or implied.

In no event shall Motorola Solutions be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the product or accessory, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or other financial loss arising out of or in connection with the ability or inability to use the products or accessories to the full extent these damages may be disclaimed by law.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.

Table 7: Warranty Coverage

Products Covered	Length Of Coverage
Products and Accessories as defined above, unless otherwise provided for below.	Two (2) years from the date of purchase by the first consumer purchaser of the product unless otherwise provided for below.
Batteries whose fully charged capacity falls below 80 % of their rated capacity and batteries that leak.	Ninety (90) days from the date of purchase.

Products Covered	Length Of Coverage
Products and Accessories that are repaired or replaced.	The balance of the original warranty or for ninety (90) days from the date returned to the consumer, whichever is longer.

Exclusions From Warranty Coverage

Normal Wear and Tear:

Periodic maintenance, repair and replacement of Products or Accessories due to normal wear and tear.

Abuse & Misuse:

Defects or damage that result from: (a) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the Products and Accessories resulting from misuse; (b) contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; (c) use of the Products or Accessories for commercial purposes or subjecting the Product or Accessory to abnormal usage or conditions; or (d) other acts which are not the fault of Motorola Solutions.

Use of Non-Motorola Solutions branded Products and Accessories:

Defects or damage that result from the use of Non-Motorola Solutions branded or certified products, accessories, software or other peripheral equipment.

Unauthorized Service or Modification:

Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, or modification in any way by someone other than Motorola Solutions or its authorized service centers.

Altered Products:

Products or Accessories with (a) serial numbers or date tags that have been removed, altered or obliterated; (b) broken seals or that show evidence of tampering; (c) mismatched board serial numbers; or (d) nonconforming or non-Motorola Solutions branded housings, or parts.

Communication Services:

Defects, damages, or the failure of Products or Accessories due to any communication service or signal you may subscribe to or use with the Products or Accessories.

How to Obtain Warranty Service or Other Information?

To obtain service or information, call the following contact:

Table 8: Warranty Service Information

Region	Contact
USA and Canada Two-Way Radios	<ul style="list-style-type: none"> ● 1-800-448-6686 ● https://www.motorolasolutions.com/talkabout

For Accessories:

Call the telephone number designated above for the Product with which they are used.

You will receive instructions on how to ship the Products or Accessories at your expense, to Motorola Solutions or a Motorola Solutions Authorized Repair Center. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider, if applicable; (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number.

For more information, visit us at:

Link	
	https://www.facebook.com/MotorolaTalkaboutWalkieTalkies
	http://bit.ly/Talkabout
	https://www.motorolasolutions.com/talkabout