

MOTOTRBO[™] Ion Smart Radio User Guide





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Read Me First

This user guide covers the basic operations of your radios.

Notations Used in This Manual

Throughout the text in this publication, you notice the use of **Warning**, **Caution**, and **Notice**. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.



WARNING: An operational procedure, practice, or condition, and so on, which may result in injury or death if not carefully observed.



CAUTION: An operational procedure, practice, or condition, and so on, which may result in damage to the equipment if not carefully observed.



1

NOTICE: An operational procedure, practice, or condition, and so on, which is essential to emphasize.

Special Notations

The following special notations are used throughout the text to highlight certain information or items:

Table 1: Special Notations	
Example	Description
Menu key or PTT button	Bold words indicate a name of a key, button, or soft menu item.
Your radio shows Bluetooth On.	Typewriter words indicate the MMI strings or messages displayed on your radio.
<required id=""></required>	The courier, bold, italic, and angle brackets indi- cate user input.
$\textbf{Setup} \rightarrow \textbf{Tone} \rightarrow \textbf{All Tones}$	Bold words with the arrow in between indicate the navigation structure in the menu items.

Feature and Service Availability

Your dealer or administrator may have customized your radio for your specific needs.

 NOTICE: Not all features in the manual are available in your radio. Contact your dealer or administrator for more information.

You can consult your dealer or system administrator about the following:

- · What are the functions of each button?
- · Which optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- · What maintenance procedures promote longer radio life?

MN006217A01-AB Chapter 1: Read Me First

1.1 Software Version

All the features described in the following sections are supported by the software version **XX** or later. Contact your dealer or administrator for more information.

Radio Care

This section describes the basic handling precaution of the radio.

Table 2: IP Specification

IP Specification	Description
IP68	Allows your radio to withstand two meters of water for two hours, and adverse field condi- tions such as water drops, snow, dirt, grease, or other surface contaminants.



CAUTION: Do not disassemble your radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance should only be done in service depot that is equipped to test and replace the seal on the radio.

- If your radio has been submersed in water, shake your radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.
- If your radio's battery contact area has been exposed to water, clean and dry battery contacts on both your radio and the battery before attaching the battery to radio. The residual water could shortcircuit the radio.
- If your radio has been submersed in a corrosive substance (for example, saltwater), rinse radio and battery in fresh water then dry radio and battery.
- To clean the exterior surfaces of your radio, use a diluted solution of mild dishwashing detergent and fresh water (for example, one teaspoon of detergent to one gallon of water).
- Your radio is designed to be submersible to a maximum depth of 2 m and a maximum submersion time of 120 minutes. Exceeding maximum limit may result in damage to your radio.

2.1 Specifications

General Specification

Table 3: Software

Parameter	Value
Operating System	Android 10
Google Mobility Services	Enabled

Table 4: Hardware

Parameter	Value
Main Display	4.0" (480 x 800)

Parameter	Value
	Capacitive Touch Technology: Usable with Gloves Up to 4 mm Thick, Resistant to False Actuation from Fresh or Salt Water, Snow, Dirt or Grease
Top Display	1.05" Monochromatic LCD
Memory	RAM: 4 GB
	Internal Storage: 32 GB
	Expandable Storage (External): 128 GB microSD [™] card
Card Slot	North America (NA): eSIM
	1 Nano SIM
	1 Micro SD
Camera	Rear: 13 MP
	Auto Focus
	High-Output LED Flash
	Digital Zoom
Sensor Platform	Hall Sensor
	Ambient Light Sensor
	Accelerometer
	Barometer
	Gyroscope
	E-Compass
User Interface	High Velocity User Interface: Large Touch Targets, Shallow Menu Hierarchy, Home Screen Information at a Glance, Integrated An- droid Applications
Mission Critical Buttons	Push-to-Talk (PTT) Button
	Emergency Button
	Three Programmable Buttons
	On/Off/Volume knob
	Display Sleep/Wake button
	Channel Selector knob

Table 5: Audio

Parameter	Value
Audio Output Power at Rated	1 W
Audio Output Power at Max	3 W
Audio Response (EIA)	+1, -3 dB
Audio Features	Adaptive Equalization
	Adaptive Dual Microphone Noise Suppression Intensity
	Adaptive Gain Control

Parameter	Value
	Adaptive Windnoise Mitigation
	Adaptive Howling Suppresso
	IMPRES [™] Audio Accessory Compatibility
VIQI VOICE INTERACTION	Customizable Voice Announcements
	Voice Control: 13 Actions with Intuitive Commands

Table 6: Media

Parameter	Value
Supported Formats	H.263, H.264, MPEG-4 SP, VP8, JPEG (,jpg), GIF (.gif), PNG (.png), BMP (.bmp), WebP, (.webp) Formats Supported for Play- back, Streaming, and Recording
Supported File Types	3GPP (.3gp), MPEG-4 (.mp4), WebM (.webm), (.mkv)
Video Recording Quality	4K (UHD) at 30 fps
	1080p (FHD) at 60 fps

Table 7: Ruggedness

Parameter	Value
Ingress Protection	IP6x Dust
	IPx8 Submersion (2 m, 2 hr)

Table 8: Security

Parameter	Value
Root Detection	Standard
Multi-Factor Authentication	Optional
Remote Configuration	Trusted Third Party Provided
Application Whitelisting	Trusted Third Party Provided
Over-the-Air Wipe and Lock	Trusted Third Party Provided
Integrity Monitoring	Standard
Malware Blocking	Standard

Table 9: Management

Parameter	Value
Device Management	RadioCentral™
	SmartInsight ¹

¹ Optional Feature



NOTICE: Hazloc Protection

When properly equipped with Motorola UL-Approved battery, the device are UL Approved to TIA-4950 for use in Hazardous Locations, Division 1, Class I, II, III, Groups C,D,E, F, G; Division 2, Class 1, Groups A,B,C,D, T3C. Tamb = -20 °C to +60 °C.

Connectivity Specifications

Table 10: LTE Connectivity

Parameter	Value
Supported Bands	North America (NA): 2, 4, 5, 7, 12, 13, 14, 17, 30, 48 (Private Band)
	International: 1, 2, 3, 4, 5, 7, 8, 20, 28, 38, 39, 40, 41
	UMTS1 for International: 850 Mhz, 900 Mhz, 1700 Mhz, 1900 Mhz, 2100 Mhz
Device Class	4
Certifications	North America (NA): Verizon,AT&T®, Bell Mobility
	International: TTA IoT for Korea

Table 11: DMR Connectivity

Parameter	Value
Operational Systems	Digital and Analog Conventional
	Dual Capacity Direct Mode
	IP Site Connect
	Capacity Plus Single or Multi-Site
	Capacity Max
Frequency Bands	UHF Wide Band
	Up to 1000 Channels
	Up to 250 Zones
Channel Spacing	12.5 kz
	25 kHz ²

Table 12: DMR Receiver

Parameter	Value
Analog Sensitivity (12dB SI- NAD)	0.16 uV
Digital Sensitivity (5% BER)	0.14uV
Intermodulation (TIA603D)	70 dB
Adjacent Channel Selectivity, (TIA603A)-1T	60 dB (12.5 kHz channel)
	70 dB (25 kHz channel ²)

² Not available in United States (USA).

Parameter	Value
Adjacent Channel Selectivity, (TIA603D)-2T	45 dB (12.5 kHz channel)
	70 dB (25 kHz channel ²)
Spurious Rejection (TIA603D)	70 dB

Table 13: DMR Transmitter

Parameter	Value
RF Output Power	High: 4 W
	Low: 1 W
FSK Digital Modulation	12.5 kHz Data: 7K60F1D and 7K60FXD
	12.5 kHz Voice: 7K60F1E and 7K60FXE
	Combination of 12.5 kHz Voice and Data: 7K60F1W
igital Protocol	ETSI TS 102 361
Conducted/Radiated Emis- sions (ETSI)	-36 dBm < 1 GHz
	-30 dBm > 1 GHz
Adjacent Channel Power	60dB (12.5 kHz channel)
	70dB (25 kHz channel ²)
requency Stability	± 0.5 ppm

Table 14: Wi-Fi Connectivity

Parameter	Value
Standards Supported	802.11a/b/g/n/ac
Frequency Range	2.4 GHz, 5 GHz
Security	Supports WPA, WEP, WPA-2, WPA-3
Capacity	Up to 20 SSIDs

Table 15: Bluetooth Connectivity

Parameter	Value
Version	5

Table 16: Location Tracking Connectivity

Parameter	Value
GNSS	Built-in GNSS (GPS/GLONASS/BEIDOU/GALILEO/AGPS)
	Indoor Positioning

Battery Specifications

Table 17: Energy

Parameter	Value
IMPRES 2 Smart Battery Technology Capacity	Standard: 2820 mAh
	Standard HazLoc: 2900 mAh
	High Capacity HazLoc: 4400 mAh

Table 18: Physical

Parameter	Value
Dimensions (H x W x D) With Standard Battery	142.5 mm x 69.3 mm x 29.22 mm
Dimensions (H x W x D) With Standard Hazloc Battery	142.5 mm x 69.3 mm x 37.71 mm
Dimensions (H x W x D) With High-Capacity Battery	142.5 mm x 69.3 mm x 40.71 mm
Weight With Standard Battery	430 g
Weight With Standard Hazloc Battery	460 g
Weight High-Capacity Battery	499.5 g

Radio Overview



Table 19: Radio Overview

No.	Description
1	Emergency button
2	Channel Selector knob
3	LED Indicator
4	On/Off/Volume knob
5	Top Display
6	Holster Catch Feature
7	Push-to-Talk (PTT) button
8	3-Dot Programmable Feature button
9	1-Dot Programmable Feature button
10	2-Dot Programmable Feature button
11	Holster Rail

No.	Description
12	Front Microphone
13	Touchscreen
14	Display Sleep/Wake button
15	Speaker
16	Antenna
17	Accessory Connector
18	Rear Microphone
19	LED Flash
20	Camera
21	Battery Latch
22	Battery
23	Charging Contacts

3.1

Programmable Buttons

You can program the programmable buttons as shortcuts to the following radio functions through Customer Programming Software (CPS).



NOTICE: Contact your dealer for more information.

Table 20: Assignable Radio Functions

Function	Description
Active Site Search	Allows you to search for an active site.
Bluetooth [®] Audio Switch	Allows you to toggle the audio routing between internal radio speaker and external Bluetooth- enabled accessory.
Call Alert	Allows you to direct access to the contacts list and select the required contact to send call alert.
Channel Knob	Allows you to change channel.
Contacts	Provides direct access to the contacts list.
Current Site Information	Allows you to view current site information.
Flexible RX List	Allows you to enable or disable a dynamic Rx list. Provides you the flexibility to add or remove talkgroup members.
High/Low Power	Allows you to toggle between high and low pow- er.
Intelligent Audio	Allows you to toggle intelligent audio to on or off.

Function	Description
Mandown	Allows you to toggle the Man Down alarms to on or off.
Manual Dial For Private	Allows you to initiate Private Call by entering the subscriber ID.
Manual Site Roam	Allows you to start the manual site search.
Message	Allows you to access the Text Message feature in Digital mode and MDC Message feature in Analog mode through the radio menu (applica- ble to Display model only).
Mic AGC	Allows you to toggle the internal microphone automatic gain control (AGC) to on or off.
Monitor	Allows you to monitor a channel.
Neighboring Site Information	Allows you to access Neighboring Site Informa- tion.
Nuisance Delete	Allows you to temporarily remove an unwanted channel from the scan list, except the Selected Channel. The nuisance deleted channel will be restored into the scan list, for instance, when ra- dio is powered off and back on again.
One Touch Access	Allows you to direct access to the predefined call features.
Permanent Monitor	Allows you to monitor a selected channel for all radio traffic until function is disabled.
Privacy	Allows you to toggle the privacy to on or off.
Radio Check	Allows you to check if the radio is active in the system.
Radio Enable or Disable	Allows a target radio to be remotely enabled or disabled.
Radio Name	Displays the radio alias on the radio display.
Recent Calls	Allow you to view recent calls.
Repeater or Talkaround	Allows you to toggle between using a repeater and directly communicating with another radio.
Ring Alert Type	Allows you to direct access the Ring Alert Type setting.
Scan	Allows you to toggle the scan to on or off.
Site Lock	Allows you to enable the site lock to search only in current site or disable the site lock to search in other sites as well.
Status	Allows you to select the status list menu.
Switch Speaker	Allows you to toggle the external audio feature on and off. External Audio re-routes the speaker audio from the attached Accessory to the inter- nal speaker.

Function	Description
Tight/Normal Squelch	Allows you to toggle between tight or normal squelch (applicable to Analog mode only).
Toggle AF Suppressor	Allows you to toggle the AF Suppressor feature to on or off (applicable to Digital mode only).
Toggle Call Priority Level	Allows you to enable your radio to enter Call Priority Level High or Normal.
Trill Enhancement	Allows you to toggle the trill enhancement to on or off.
TX Interrupt Remote Dekey	Allows you to stop an on-going voice call by de- keying the transmitting radio or terminate the re- peater call hang time in order to free up the channel.
Unassigned	Indicates that the button function has not yet as- signed.
Voice Control Activation	Allows you to initiate Voice Control commands.
Voice Operating Transmission (VOX)	Allows you to toggle the VOX to on or off.
Zone Selection	Allows you to select from a list of zones.

3.2 **ViQi**

ViQi allows you to manage your radio and perform information lookups using voice commands. This feature is purpose-built for better communication and is active when you press and hold the assigned programmable feature button on the radio.



NOTICE: ViQi is available in English language only.

You are able to operate the radio with your voice using the following commands.

Table 21: ViQi Commands

Feature	Examples
Zone and Channel	To identify your current zone and channel, say the following com- mands:
	"Zone and channel"
	"What is my zone and channel"
	"Current zone and channel"
	 "What is my current zone and channel"
	To change to a new zone and channel, say the following com- mands:
	 "Zone <zone name="">, channel <channel name="">"</channel></zone>
	 "Zone <zone name=""> and channel <channel name="">"</channel></zone>
	 "Zone to <zone name="">, channel to <channel name="">"</channel></zone>

Feature	Examples
	 "Zone to <zone name=""> and channel to <channel name="">"</channel></zone>
	 "Change zone to <zone name="">, channel to <channel Name>"</channel </zone>
	 "Change zone to <<i>Zone</i> Name> and channel to <<i>Channel</i> Name>"
	 "Change zone to <zone name="">, channel <channel name="">"</channel></zone>
	 "Change to zone <zone name="">, channel <channel name="">"</channel></zone>
	 "Change to zone <zone name=""> and channel <channel Name>"</channel </zone>
	 "Go to zone <zone name="">, channel <channel name="">"</channel></zone>
	 "Go to zone <zone name=""> and channel <channel name="">"</channel></zone>
	 "Switch zone to <<i>Zone Name></i>, channel to <<i>Channe1</i> <i>Name></i>"
	 "Switch zone to <<i>Zone</i> Name> and channel to <<i>Channel</i> Name>"
	 "Switch to zone <zone name="">, channel <channel name="">"</channel></zone>
	 "Switch to zone <zone name=""> and channel <channel< li=""> Name>" </channel<></zone>
Zone	To identify your current zone, say the following commands: "Zone" "What is my zone" "Current zone" "What is my current zone"
	To change to a new zone, say the following commands:
	• "Zone <i><zone name=""></zone></i> "
	 "Change zone to <zone name="">"</zone>
	 "Change to zone <zone name="">"</zone>
	 "Go to zone <zone name="">"</zone>
	 "Switch zone to <zone name="">"</zone>
	 "Switch to zone <zone name="">"</zone>
Channel	To identify your current channel, say the following commands: "Channel"
	"What is my channel"
	"Current channel"
	"What is my current channel"
	To change to a new channel, say the following commands:
	 "Channel <channel name="">"</channel>

Feature	Examples
	 "Change channel to <channel name="">"</channel>
	 "Change to channel <channel name="">"</channel>
	 "Go to channel <channel name="">"</channel>
	 "Switch channel to <channel name="">"</channel>
	 "Switch to channel <channel name="">"</channel>
Volume	To identify the volume level of your radio, say the following com- mands:
	"Volume"
	"What is my volume"
	"Current volume"
	To change the volume level of your radio, say "Volume <i><volume< i=""> <i>Level></i>". The available commands and their respective volume levels are as follows:</volume<></i>
	• <low>, <min>, Or <minimum> - 10%</minimum></min></low>
	• <medium>-50%</medium>
	• <high>, <max>, Of <maximum> - 100%</maximum></max></high>
	 <1> to <100> - 10% to 100%
Battery	To identify your battery level, say the following commands:
	"Battery"
	"What is my battery"
	"Battery check"
	"Battery level"
	"What is my battery level"
	"Battery status"
	 "What is my battery status"
Time	To identify current time, say the following commands:
	• "Time"
	"Current time"
	"Time check"
	"What is the time"
	"What time is it"
Home Channel	To change to your home channel, say the following commands:
	"Home channel"
	"Change to home channel"
	"Go to home channel"
	"Switch to home channel"

Feature	Examples
	"Start scan"
	"Stop scan"
	"Start scanning"
	"Stop scanning"
Cancel Last Command	To cancel your previous command, say "Cancel".
	NOTICE: Cancel command works within a five-second window after the last command.

System Overview

System overview explains what type of systems and modes available in the radio.

4.1

Capacity Max

Capacity Max is a trunked radio system based on MOTOTRBO control channels.

MOTOTRBO digital radio products are marketed by Motorola Solutions primarily to business and industrial users. MOTOTRBO uses the European Telecommunications Standards Institute (ETSI) Digital Mobile Radio (DMR) standard, that is, two-slot Time Division Multiple Access (TDMA), to pack simultaneous voice or data in a 12.5 kHz channel (6.25 kHz equivalent).

4.2

Conventional Analog and Digital Modes

Each channel in your radio can be configured as a conventional analog or conventional digital channel.

Certain features are unavailable when switching from digital to analog mode, whereas some are available in both.

There are minor differences on how each feature works but they do not affect the performance of your radio.

4.3

IP Site Connect

This feature allows your radio to extend conventional communication beyond the reach of a single site by connecting to different available sites by using an Internet Protocol (IP) network.

When the radio moves out of range from one site and into the range of another, the radio connects to the repeater of the new site to send or receive calls or data transmissions. This is done either automatically or manually depending on your settings.

In an automatic site search, the radio scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. The radio then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list that is currently in range but which may not have the strongest signal and locks on to the repeater.



NOTICE: Each channel can only have either Scan or Roam enabled, not both at the same time.

Channels with this feature enabled can be added to a particular roam list. The radio searches the channels in the roam list during the automatic roam operation to locate the best site. A roam list supports a maximum of 16 channels, including the selected channel.



NOTICE: You cannot manually add or delete an entry in the roam list. Contact your dealer for more information.

4.4 Capacity Plus

Capacity Plus is an entry-level trunked system for single and multiple sites. The single and multi-site dynamic trunking offers better capacity and coverage.



NOTICE: If you try to access a feature not applicable to Capacity Plus–Single-Site or Capacity Plus–Multi-Site by using a programmable button, you hear a negative indicator tone.

Capacity Plus-Single-Site

Capacity Plus–Single-Site is a single-site trunking configuration of the MOTOTRBO radio system, which uses a pool of channels to support hundreds of users and up to 254 groups.

This configuration allows your radio to efficiently utilize the number of available programmed channels while in Repeater Mode.

Your radio also has features that are available in conventional digital mode, IP Site Connect, and Capacity Plus.

Capacity Plus-Multi-Site

Capacity Plus–Multi-Site is a multi-channel trunking configuration of the MOTOTRBO radio system, combining the best of both Capacity Plus and IP Site Connect configurations.

It allows your radio to extend trunking communication beyond the reach of a single site, by connecting to different available sites which are connected with an IP network. It also provides an increase in capacity by efficiently utilizing the combined number of available programmed channels supported by each of the available sites.

When your radio moves out of range of one site and into the range of another, it connects to the repeater of the new site to send or receive calls or data transmissions. Depending on your settings, this is done automatically or manually.

Automatically

Your radio scans through all available sites when the signal from the current site is weak or unable to detect any signal and locks on to the repeater with the strongest RSSI value.

Manually

Your radio searches for the next site in the roam list that is currently in range which may not have the strongest signal, and locks on to it.

Any channel with Multi-Site enabled can be added to a roam list. Your radio searches these channels during the automatic roam operation to locate the best site.



NOTICE: You cannot manually add or delete an entry in the roam list.

4.5

Direct Mode or Dual Capacity Direct Mode

If within the customer's required coverage area, any system user can directly communicate with all of the other system users with just the output power of the transmitter in their portable or mobile radio, then a direct mode or dual capacity direct mode system can be used.

Direct Mode or Dual Capacity Direct Mode (DCDM) is direct radio-to-radio communication for systems that do not use a repeater. When radios operate in direct mode or dual capacity direct mode, the radios always transmit and receive on the same frequency. Direct mode and dual capacity direct mode provide similar services to the end users, with the exception that dual capacity direct mode is only available in digital mode, and supports two simultaneous voice or data paths on a 12.5 kHz bandwidth channel while direct mode supports only one. Additionally, there are some minor differences. For example, dual capacity direct mode channels may not be used as GPS revert channels.

The radios are not limited to one direct mode/dual capacity direct mode frequency. They can be programmed to have different frequencies, which are selectable with the channel selector knob.

Direct mode or dual capacity direct modes do not need over-the-air hang time for voice calls. The radio has an internal call ("talk back") timer. The channel access method used before the call timer expires is impolite, since the radio is still a member of an active call. This is independent of the Channel Access selection for call initiation (polite or impolite).

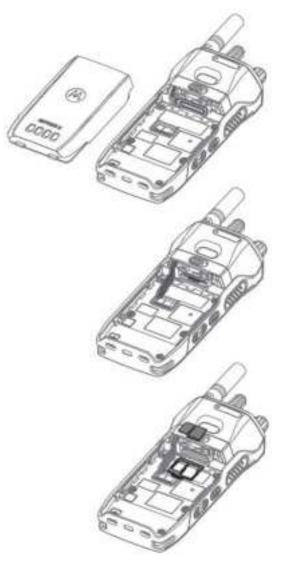
Getting Started

Getting Started provides instructions to prepare your radio for use.

5.1 Inserting or Removing MircoSD Card

- **1** Slide the battery latch into unlock position.
- 2 Remove the battery from the slot at the bottom of the radio.
- **3** Remove the microSD card cover and the microSD card tray.
- 4 Perform one of the following actions:
 - To insert, place the microSD card into the tray.
 - To remove, take the microSD card out from the tray.

Figure 1: Removing microSD Card



5.2 Inserting or Removing SIM Card

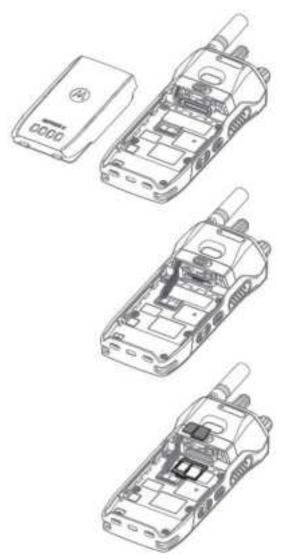


NOTICE: This task is not applicable to NAG region.

Your radio supports private or public SIM card.

- **1** Slide the battery latch into unlock position.
- 2 Remove the battery from the slot at the bottom of the radio.
- **3** Remove the SIM card cover and the SIM card tray.
- 4 Perform one of the following actions:
 - To insert, place the SIM card into the tray.
 - To remove, take out the SIM card from the tray.

Figure 2: Removing SIM Card



5.3 Attaching or Detaching the Battery

Attaching the Battery

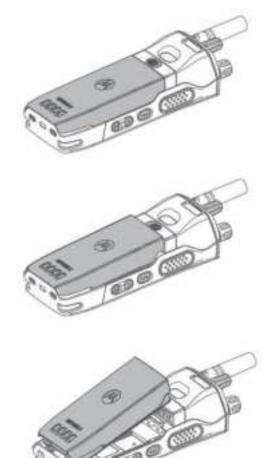
Procedure:

- **1** Fit the battery into the slot at the bottom of the radio.
- 2 Push the top of the battery down until the latch snaps into place.

Detaching the Battery

- **1** Slide the battery latch into unlock position.
- 2 Remove the battery from the slot at the bottom of the radio.

Figure 3: Detaching the Battery



5.4 Attaching or Removing the Accessory Connector Cover

Attaching the Accessory Connector Cover

Procedure:

- 1 Insert the slanted end into the slots above the universal connector.
- 2 Push the connector upwards.
- 3 Press the accessory connector downwards until you hear a click.

Removing the Accessory Connector Cover

- 1 Pull the connector outward.
- 2 Slide the connector downward.
- 3 Pull the connector latch outward.

5.5 Attaching or Detaching the Antenna

Attaching the Antenna

Procedure:

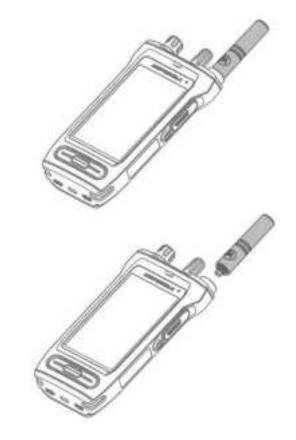
- **1** Set the antenna in the receptacle.
- 2 Turn the antenna clockwise.

Detaching the Antenna

Procedure:

- **1** Turn the antenna counterclockwise.
- 2 Remove the antenna from the receptacle.

Figure 4: Detaching the Antenna



^{5.6} Using the Carry Holder

Inserting the Radio into the Carry Holder

Procedure:

1 Position the radio within the carry holder with the main speaker facing outward.

2 Slide the radio down into the carry holder until it clicks in place.

Removing the Radio from the Carry Holder

Procedure:

- 1 Place the tip of your fingers on the ledge of the carry holder.
- **2** Push the bottom of the radio until it is released from the carry holder.

5.7

Charging the Radio

You can charge your radio using Motorola Solutions-approved single or multi-unit charger.

Procedure:

- **1** Turn off the radio.
- 2 Place the radio in the charger.

5.8 Turning the Radio On or Off

Turning the Radio On

Procedure:

Rotate the On/Off/Volume knob clockwise until a click sounds.

Turning the Radio Off

Procedure:

Rotate the **On/Off/Volume** knob counterclockwise until a click sounds.

5.9 **Adjusting the Volume**

Procedure:

- 1 Perform one of the following actions:
 - To increase the volume, turn the On/Off/Volume knob clockwise.
 - To decrease the volume, turn the On/Off/Volume knob counterclockwise.

Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume.

Adjusting the volume actions is applicable for both Long Term Evolution (LTE) and Land Mobile Radio (LMR) volume control.

5.10 Removing Camera Lens Protective Cover

Procedure:

Lift the protective film from the camera lens.

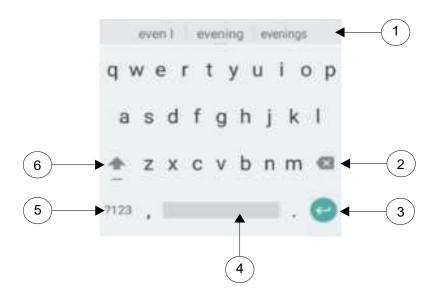
Figure 5: Detaching the Antenna



5.11

On-screen Keyboard Overview

Use the keyboard in portrait or landscape orientation to enter alphanumeric text on your radio. The keyboard supports auto-capitalization and word suggestions in the Messaging feature.



No.	Description
1	Predictive text
2	Backspace
3	Enter
4	Tap to insert space.
	Double-tap to insert a period.
5	Tap to input numbers, punctuation, or symbols.
6	Tap to type in uppercase.
	Double-tap for caps lock.

Based on the language settings of your radio, you can also tap and hold a character to input alternate characters.

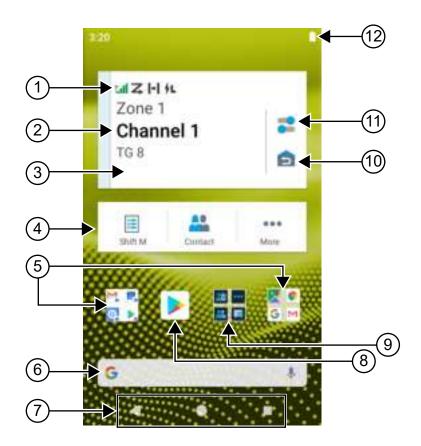
5.12 **Touchscreen Navigation**

Table 22: Touchscreen Actions

Action	Results
Тар	You can tap to perform the following actions:
	Select items on the screen
	Type letters and symbols using the onscreen keyboard

Action	Results
	Press on-screen buttons
Tap and hold	You can tap and hold to perform the following actions:
	 Drag an application on the home screen to move it to a new location or to remove it
	Create a shortcut of an application on the home screen
	 At an empty area of the home screen, tap and hold to lauch a menu to select wallpapers, widgets and Home settings
Swipe	You can move your finger up, down, left, or right on the screen to perform the following actions:
	Unlock the screen
	View additional home screens
	 View additional application icons in the Launcher window
	 View more information on an application screen
Double-tap	You can tap twice on a webpage, map, or other screen to zoom in and out.
Pinch	In some applications, you can zoom in and out by placing two fin- gers on the screen and pinching them together (to zoom out) or spreading them apart (to zoom in).

Home Screen Overview



No.	Name	Description
1	Channel Status Icons	Provides information or status specific to the selected channel.
2	Light Bar	Reflects the active call state of the radio.
3	Radio Control Widget	Displays channel errors, trunking statuses, call states, and notifi- cations.
		Allows you to change zone and channel from the home screen.
4	Menu Feature Launcher Widget	Displays the top two priority features provisioned in the CPS.
		The More option contains all other programmed menu items.
5	Google Folder	A folder that keeps all the Google applications.
6	Google Search bar	A shortcut widget used to perform Google search using Chrome.
7	Back button	Allows you to return to previous screen or exit application win- dows.

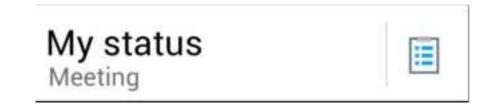
No.	Name	Description	
	Home button	Allows you to return to home screen.	
	Overview button	Allows you to view a list of applications that are currently active on your radio.	
8	M-Apps Folder	M-Apps folder contains Motorola Solutions applications:	
		M-Contacts	
		• M-Dialer	
		• M-Menu	
		• M-Messenger	
		M-Radio Control	
		M-Shift Manage	
		If you open another application, M-Apps closes automatically.	
		If you press the Overview softkey, M-Apps does not appear in Overview.	
9	Home Channel Revert	Allows you to revert to the Home Channel or Talkgroup.	
10	Radio Quick Settings	Allows you to quickly toggle the radio communication settings. The settings are channel specific.	
11	Status Bar	Status icons appear in the status bar to provide device status and feature notifications.	

6.1

Identity and Status Widget

The Identity and Status Widget displays the identity of the radio with either the Radio Alias, Soft ID, or User Login. This widget also allows you to send the operational status directly from the home screen.

Figure 6: Identity and Status Widget



6.1.1 Managing Operational Status

- 1 From the home screen, tap Identity and Status Widget.
- 2 Select the available status.

6.1.2 User Login Feature

This feature allows you to take on a friendly username.

You can still send text messages without logging in as a user. The user login feature only enables the recipient of your message to identify you as the sender by assigning a username to your message.

6.1.2.1 Logging In to Automatic Registration Service

Procedure:

- **1** From the home screen, tap **E** Shift Manager Launcher \rightarrow User Login.
- 2 Perform one of the following actions:
 - To log in with an existing ID, tap your ID.
 - To log in with a new ID, tap Login with new ID → <preferred User Login ID> →
 Done.
- 3 Enter the authorized PIN, tap **Cone**.

If a PIN is not assigned to the ID, skip this step.

The display shows the **Progress** screen. If the channel does not support Automatic Registration Service login, the display shows the status as Offline.

4 While sign in is in progress, tap Hide.

After the login is completed, the Identity and Status Widget shows the login ID.

6.1.2.2 Logging Out of Automatic Registration Service

Procedure:

- **1** From the home screen, tap **E** Shift Manager Launcher $\rightarrow \langle your | ID \rangle \rightarrow Yes$.
- 2 Perform one of the following actions:
 - To clear the private data, tap Yes.
 - To keep your private data, tap No.

6.1.3 Entering the Soft ID

Soft ID entry is only allowed if it is enabled and User Login is not used.

- 1 From the home screen, tap **E** Shift Manager Launcher \rightarrow Soft ID.
- 2 Enter your Soft ID.
- 3
- Tap Y Done to confirm.



NOTICE: If you leave the Soft ID empty, the **Work Manager Widget** displays the Radio Alias ID if it is enabled.

6.2 Status Indicators

Status Indicators explain the Icons and LED indicators used in the radio.

6.2.1 Status Icons

These icons appear at the status bar to provide device-specific information or status.

lcon	Name	Description
(Front dis- play)	Battery	Indicates the remaining battery level of the radio. The icon blinks when the battery level drops to 10% or low- er.
(Top dis- play)		
*	Bluetooth On	Steady – Bluetooth is on and ready for Bluetooth con- nection.
,		Inverted – Bluetooth is connected to an external Blue- tooth device.
0	Global Positioning Sys- tem (GPS)	GPS is enabled and its signal is available.
Σ	No SIM	SIM card is not inserted or detected.
級 級	LTE Network Strength	The radio is connected to an LTE network. The number of bars represents the signal strength of the LTE network.
Δ	LTE No Service	The radio is not connected to an LTE network.
*	Data Disabled	The radio is connected to an LTE network but the data is disabled.
ļ	Notification (Top display only)	The radio receives notification of an activity or event.
12:30	Time	Indicates the current time.
♥	Wi-Fi	The radio is connected to a Wi-Fi network. The number of bars represents the signal strength of the Wi-Fi network.

6.2.2 Radio Control Widgets Icons

These icons appear at the Radio Control Widget to provide information or status of LMR-specific features.

lcon	Name	Description
ए	Call Priority High	Allows the system to preempt one of the ongo- ing non-priority calls and initiate the requested high priority call when all channels are busy.
₽	Dynamic Group Num- ber Assignment (DGNA)	Allows the console to assign and remove a new talkgroup from your radio over the air.
+	Direct	The radio is configured for direct radio-to-radio communication in conventional operation.
8	High Volume Data	The radio is receiving high volume data and the channel is busy.
	Monitor	The selected channel is being monitored in con- ventional operation.
41	Power Level	Off – The radio is set at high power.
7L		On – The radio is set at low power.
K	Response Inhibit	Prevent your radio from responding to any in- coming transmissions.
Ĩ 😂	Receiving	The radio is receiving a call or data.
to	Received Signal Strength Indicator (RSSI)	The number of bars represents the received signal strength of the current site in trunking mode.
(ๆ)	Roaming	The radio has roamed to and is registered to a foreign system.
×	Transmit Inhibit	The radio is blocking all transmissions.
Z,	Scan	The radio is scanning a scan list.
Z.	Scan Priority 1or	Blinking Dot- The radio is in Scan Priority 1.
	Scan Priority 2	Steady Dot - The radio is in Scan Priority 2.
0	Secure	Blinking – The radio is receiving an encrypted voice call.
		Steady – The radio is operating in a secure channel.
< #	Shared Frequency	Allows your frequency to be shared.

lcon	Name	Description
ĭ 🔏	Transmitting	The radio is transmitting a call or data.
<u>64</u>	Unsecure	The radio is operating in an unsecure channel.
= (+	Voice Operating Transmission (VOX)	Allows you to initiate hands-free voice-activated calls on a programmed channel.

6.2.3 LED Indicators

Blinking Red

Radio is transmitting in low battery state or indicating battery mismatch.

Double Blinking Red

Radio is receiving an emergency transmission.

Rapidly Blinking Red

Radio has failed the self-test upon powering up and is out of range.

Solid Green

Radio is powering up and transmitting.

Blinking Green

Radio firmware upgraded successfully.

Double Blinking Green

Radio is receiving a privacy-enabled call or data.

Solid Yellow

Radio is entering Permanent Monitor state.

Blinking Yellow

Radio is performing scan.

Rapidly Blinking Yellow

Radio is receiving Call Alert.

6.2.4 Backlight Indicators

The top display backlight indicates the types of behaviour of the radio.

Backlight Behaviour	Description
Orange	When radio initiates or receives Emergency
EMERGINCY	Alarm or Call.
Red	When radio is on the following critical alerts:
DUT OF BASED	Low Battery
	Out of Range
TOW PATIENTS	 Inability to establish a full connection with the system.

Backlight Behaviour	Description	
	 Inability to authenticate or register with the system. 	
	 Lost GPS signal or GPS function fails. 	
Green	When radio receives the following calls:	
Alex	Private Call	
	Call Alert	
	Selective Call	
	Entering Geofence	

6.2.5 Lightbar Indicators

The Lightbar Indicator indicates the active call state of the radio.

Color	Call State
Light Blue	Open/Standby
Yellow	Receiving Call
Red	Transmitting Call
14 & Z HI B	
Gray	Unprogrammed

Color		Call State	
	*		

General Radio Settings

This section explains the general settings that you can adjust on your radio.

7.1 Accessing Radio Settings

Procedure:

- 1 To access radio settings, perform one of the following actions:
 - From home screen, swipe up.
 - · Swipe down the notification panel.
- 2 Select **Settings**.

Creating Radio Settings as Shortcut in Home Screen

Procedure:

- 1 Locate Settings.
- 2 Long press and drag **Settings** to home screen.

7.2 Adjusting Display Brightness

Procedure:

Swipe down the notification panel and perform one of the following actions:

- To set a custom brightness level, drag the Brightness Slider.
- To automatically adjust the screen brightness based on the lighting conditions, tap Auto Brightness.

7.3 Turning On Dark Theme

Procedure:

From home screen, tap **Vight Mode**.

7.4 Setting the Clock

Procedure:

1 Swipe up the home screen, tap \bigcirc Settings \rightarrow Clock.

2 Perform one of the following actions:

Option	Actions
Toggling 24-hour format on or off	tap Use 24-hour format .
Toggling automatic time zone on or off	tap Set Automatic.
Select time zone manually	a Toggle Set Automatic to off.
	b Tap Select Time Zone.

7.5

Setting the Front Display Timer

This setting determines the period before the front display dims and turns off due to inactivity.

Procedure:

Swipe up the home screen, tap \clubsuit Settings \rightarrow Display \rightarrow Front Display Timer \rightarrow <required period>.

7.6

Screen Lock

You can set your radio screen to lock automatically by specifying a pattern, PIN, or a password to keep your data secure.

IMPORTANT: If your radio screen lock option is set to **None** or **Swipe**, your data is not secured and can be accessed by anyone.

When your radio is on, you can lock your radio by pressing the **Display Sleep/Wake** button, and unlock by providing a pattern, PIN or a password.

If you did not specify a pattern, PIN, or a password you can also unlock your radio by swiping up the screen, or only by pressing the **Display Sleep/Wake** button if no locking option was set.

When your radio is locked, the cellular network signal, phone calls, notification of new messages, missed calls, and upcoming appointments are still available and can be received.

You can also set your radio to automatically lock after a specified time.

7.6.1 Unlocking Screen

- 1 Press the Display Sleep/Wake button.
- 2 Swipe up the home screen.
- 3 Perform one of the following actions:

Option	Actions
Unlocking the screen with pattern	Draw the specified pattern on the screen using your finger.
Unlocking the screen with a PIN or password	a Enter your pin or password.

Option	Actions
	b Tap Save.

7.7 Setting Languages

Procedure:

Swipe up the home screen, tap \mathbf{P} Settings \rightarrow Languages \rightarrow <required Languages>.

If the selected language is not supported by the Land Mobile Radio (LMR) setting, the selected language will revert to English whenever your radio operates in LMR setting.

7.8

Audio Settings

This section contains information on Audio Settings for Long Term Evolution (LTE) and Land Mobile Radio (LMR) system.

If there is concurrent audio coming from both LTE and LMR system, your radio prioritizes the audio from LMR system.

Depending on your radio Audio Settings when using a microphone, the LTE Audio may go on silent.

7.8.1 Turning Do Not Disturb On or Off

The do not disturb setting allows you to mute alarms, reminders, events, messages, and calls.

Turning Do Not Disturb On

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap **Do Not Disturb**.
- Swipe up the home screen, tap \mathbf{Q} Settings \rightarrow Sound \rightarrow Do Not Disturb \rightarrow Turn On Now.

Turning Do Not Disturb Off

Procedure:

- Swipe down the notification panel, tap **Do Not Disturb**.
- Swipe up the home screen, tap Settings → Sound → Do Not Disturb → Turn Off Now.

7.8.1.1 Setting Do Not Disturb

Procedure:

- **1** Swipe up the home screen, tap **Settings** \rightarrow **Sound** \rightarrow **Do Not Disturb**.
- **2** Perform one of the following actions:

Option	Actions
Setting Do Not Disturb Exceptions for Calls	 a Tap Calls. b Set the exception for the following options: Allow Call Starred Calls Allow Repeat Callers
Setting Do Not Disturb Exceptions for Messages	a Tap SMS, MMS and messaging apps.b Tap Allow messages.
Setting Do Not Disturb Exceptions for Other Features	 a Tap See all exceptions. b Set the exception for the following options: Allow Alarms Play Media Sounds Allow Touch Sounds Allow Reminders Allow Events
Setting Restriction for Notifications	 a Tap Restrict Notifications. b Set the restriction for the following options: No sound from notifications No visuals or sound from notifications Custom
Setting Default Duration for Do Not Disturb	 a Tap Default Duration. b Perform one of the actions: Tap Until you turn off. Tap and edit the <required duration="">.</required> Tap Ask every time.

7.8.2 Accessing Radio Audio Settings

- **1** Perform one of the following actions:
 - From the Menu Feature Launcher Widget, tap \blacksquare More \rightarrow Radio Audio Settings .

- Swipe up the home screen, tap \mathbf{Q} Settings \rightarrow Sound \rightarrow Radio Audio Settings.
- **2** To change the radio audio settings, select the following options:

Audio Preference

- Default
- Level 1
- Level 2
- Level 3
- Treble Boost
- Mid Boost
- Bass Boost
- Noise Suppressor
 - Disabled
 - Basic
 - Enhanced Auto (Default)
- AF Suppressor
- Intelligent Audio
- Mic AGC

7.8.2.1 Setting Audio Preference

Procedure:

- 1 Perform one of the following actions:
 - From the Radio Control Widget, tap **■** Radio Quick Settings → Audio Preference.
 - From the Menu Feature Launcher Widget, tap **More** \rightarrow **Audio Preference**.
- 2 Perform one of the following actions:
 - To disable the previous selected Audio Preference and return to the default factory settings, tap **Default**.
 - For audio profiles that compensate noise-induced hearing loss in adults above 40 years old, tap Level 1, Level 2, or Level 3.
 - If you prefer audio profiles with tinnier, more nasal, or deeper sounds, tap **Treble Boost**, **Mid Boost**, or **Bass Boost**.

7.9 Airplane Mode

The Airplane Mode disables your radio's ability to communicate over radio-frequency signal transmission. When Airplane Mode is enabled, Bluetooth and Wi-Fi connections automatically turn off.

NOTICE: You can turn on Bluetooth, GPS, and Wi-Fi connections manually during Airplane Mode.

When you are in Airplane Mode, the following occurs:

- The transmit inhibit automatically turns on.
- For Capacity Max, the transmitter and receiver is disabled.
- For non-Capacity Max, only the transmitter is disabled.

You will face the following scenarios:

- · You cannot receive PTT calls and messages.
- You cannot receive alerts from others.

7.9.1 Entering Airplane Mode

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap Airplane Mode.
- Swipe up the home screen, and tap Settings → Network & internet → Airplane Mode → On.

Your radio shows the Airplane mode icon in the Status bar.

For Capacity Max, your radio displays an informative dialog message.

7.10 USB Desense

When your radio is connected to another device using a USB cable, any receiving and transmitting activities are disabled.

You will face the following scenarios:

- You can only control the volume using Volume knob.
- You cannot press the **PTT** button.
- You cannot tap the Menu Feature Launcher Widget.

For Capacity Max system, if you enable the airplane mode and disable the USB Desense, your radio displays the following indications:

- Airplane mode and USB desense informative dialog boxes.
- Airplane mode icon.

7.11 Battery

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7.11.1
Viewing Battery IMPRES Information
```

Procedure:

Perform one of the following actions:

• From Settings tap Battery → Battery IMPRESS Info.

• From the Menu Feature Launcher Widget, tap **More** \rightarrow **Battery Info**.

Your radio display the battery conditions. For more information, refer Battery Information.

7.11.1.1 Battery Information

Battery IMPRES info display the current status of your battery. Depending on the battery conditions, your radio shows the following information.

Battery Condition	Information Display on Radio
Good Condition	• Remaining Capacity
	• First Used
	• Service Life
	• Kit Number
Battery Needs Recondi- tion	Battery needs recondition
Wrong Battery	The top display shows WRONG BATT.
	• Battery IMPRES info displays Wrong Battery.
	 The display shows Wrong Battery notification.
	 Upon powering up your radio, the display shows Wrong Battery di- alog box.
Unknown	Unknown Battery

7.11.2 Setting Battery Saver

- 1 From **Settings** tap **Battery** \rightarrow **Battery** Saver.
- 2 Perform one of the following actions:

Option	Actions
Setting a schedule for battery saver	a Tap Set a schedule.b Set the <required time="">.</required>
Toggling automatic battery saver off when fully charged	Toggle Turn off when fully charged.
Turning on battery saver manually	Tap TURN ON NOW.
Turning off battery saver manually	Tap TURN OFF NOW.

7.11.3 Turning Battery Percentage On or Off

Turning Battery Percentage On

Procedure:

- 1 From **Settings**, tap **Battery**.
- 2 Toggle Battery Percentage to on.

The front radio display shows the current percentage of the battery.

Turning Battery Percentage Off

Procedure:

- 1 From **Settings**, tap **Battery**.
- 2 Toggle Battery Percentage to off.

The current percentage of the battery on the front radio display disappears.

About Device

You can view details about your device and access Radio Advanced for more information.

You can view the following details in About Device:

- Device name
- Phone number (sim slot 1)
- Phone number (sim slot 2)
- Radio Advanced

The following describes the available information in Radio Advanced.

Radio Advanced Information	Description	
Certificates	Provides information on available certificates in your radio.	
IoT Status	Provides IoT connection status.	
Radio Information	Provides the following information about your radio:	
	Radio Alias	
	Radio ID	
	Software Version	
	• ESN-AP	
	Codeplug Version	
Regulatory Label	Provides information about your radio regulato- ry label.	
Control Map	Provides the following information about your radio buttons or knobs:	
	Side Button 1	
	Side Button 2	
	Side Button 3	
	Orange Button	
	Rotary Knob 1	
	Rotary Knob 2	

Table 23: Radio Advanced

8.1

Accessing Radio Advanced

Procedure:

- From the Menu Feature Launcher Widget, tap **More** \rightarrow Info.
- Swipe up the home screen, tap \bigcirc Settings \rightarrow About Device \rightarrow Radio Advanced.

8.1.1 Accessing Regulatory Label

- **1** Perform one of the following actions:
 - From the Menu Feature Launcher Widget, tap **More** \rightarrow **Info**.
 - Swipe up the home screen, tap $\mathbf{\hat{Q}}$ Settings \rightarrow About Device \rightarrow Radio Advanced.
- 2 Select Regulatory Label.

Connectivity

You can connect your radio to other devices, accessories, or network through different types of connectivity.

9.1 **LTE**

Long Term Evolution (LTE) is to extend the data coverage of the radio when the Wi-Fi connection is unavailable.

The LTE eSIM is installed into the radio at the Motorola Solutions factory and locked to the specific radio, so it cannot operate in any other radio or device. The eSIM is located at a slot in the rear chassis.

Do not remove the eSIM, even if LTE is not active or in use.

The following bands are available based on regions:

Table 24: Available Bands Based on Regions

Region	Bands Available
North America Group (NAG)	2, 4, 5, 7, 12, 13, 14, 17, 30, 48
International	1, 2, 4, 5, 7, 20, 28, 38, 39, 40, 41

9.2

Wi-Fi Operation

Wi-Fi[®] is a registered trademark of Wi-Fi Alliance[®]. You can set up and connect Wi-Fi network to update your radio firmware, codeplug, and resources such as language pack and voice announcement.

Your radio supports Wi-Fi Enhanced Open, WEP, WPA/WPA2/WPA3-Personal and WPA/WPA2/WPA3-Enterprise Wi-Fi networks.

Wi-Fi Enhanced Open

A new WFA security standard for public networks which provides encryption and privacy on open, non-password-protected networks in areas such as cafes, hotels and airports.

WEP/WPA/WPA2/WPA3-Personal Wi-Fi network

Uses pre-shared key/password based authentication. Pre-shared key/password can be entered by using the menu or MDM.

WPA/WPA2/WPA3-Enterprise Wi-Fi network

Designed for enterprise networks and requires a RADIUS authentication server. Your radio must be pre-configured with a certificate if certificate-based authentication is deployed and client certificate verification is required.

9.2.1 Turning Wi-Fi On or Off

Turning Wi-Fi On

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap Wi-Fi.
- Swipe up the home screen, tap \mathbf{Q} Settings \rightarrow Network & internet \rightarrow Wi-Fi \rightarrow On.

Your radio shows a list of available networks.

Turning Wi-Fi Off

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap Wi-Fi.
- Swipe up the home screen, tap \bigcirc Settings \rightarrow Network & internet \rightarrow Wi-Fi \rightarrow Off.

9.2.2 Accessing Network

- 1 Swipe up the home screen, tap \mathbf{P} Settings \rightarrow Network & internet \rightarrow Wi-Fi.
- **2** Perform one of the following actions:

Options	Action	
Connecting to network	Tap <required network=""> \rightarrow <password>.</password></required>	
Adding new network	a Tap Add network → <required ssid=""> → <preferred security="" type="">.</preferred></required>	
	b To set the network configuration, tap and expand Advanced options and set accordingly.	
	c Tap Save.	
Editing network	Tap <required network=""> \rightarrow Settings \rightarrow Edit \rightarrow <modify network="" the=""> \rightarrow Save.</modify></required>	
Forgetting network	Tap <required network=""> → Forget.</required>	
Installing Enterprise Wifi Certificate	Tap Advanced → Install network certification.	

9.3 Bluetooth

This feature allows your radio to connect to any Bluetooth (BT)-enabled device through BT connection.

Your radio supports BT connections to Commercially available Off-The-Shelf (COTS) headsets with HSP and HFP profiles as well as MSI BLE GATT accessories such as WM500 Corona RSM and EP910w PTT headset. Simultaneous connections to BT headsets are not supported.

BT operates within a range of 10 m (32 ft) line of sight. The BT function of your radio has a maximum power of 2.5 mW (4 dBm) at the 10 m range. This is an unobstructed path between your radio and your BT-enabled device. For high degree of reliability, Motorola Solutions recommends to not separate the radio and the BT-enabled device.

If the voice and tone quality gets distorted or unclear, position your radio and the BT-enabled device close to each other to re-establish clear audio reception.

9.3.1 Turning Bluetooth On or Off

Turning Bluetooth On

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap **Bluetooth**.
- Swipe up the home screen, tap Settings → Connect devices → Connection preferences → Bluetooth → On.

Turning Bluetooth Off

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap **Bluetooth**.
- Swipe up the home screen, tap Settings → Connect devices → Connection preferences → Bluetooth → Off.

9.3.2 Connecting to Bluetooth Devices

Procedure:

1 Swipe up the home screen, tap Settings \rightarrow Connected devices \rightarrow Connection preferences \rightarrow Bluetooth \rightarrow On.

Your radio starts to search for nearby pairable devices.

- 2 Perform one of the following action:
 - To connect to an existing device, tap *<required device>*→ Connect.
 - To connect to a new device, tap **Pair new device** \rightarrow **<***required device* \rightarrow **<***required device* \rightarrow **<***required device*



NOTICE: If the Bluetooth Pairing PIN feature is enabled, verify that the codes are correct before you begin pairing.

9.3.3 Disconnecting from Bluetooth Devices

Procedure:

Swipe up the home screen, tap \clubsuit Settings \rightarrow Connected devices \rightarrow Connection preferences \rightarrow Bluetooth \rightarrow <required device> \rightarrow Disconnect.

9.3.4 Viewing Device Details

Procedure:

Swipe up the home screen, tap **Settings** \rightarrow **Connected devices** \rightarrow *crequired device* \rightarrow **View Details**.

9.3.5 Editing Device Name

Procedure:

Swipe up the home screen, tap Settings \rightarrow Connected devices \rightarrow <required device> \rightarrow Edit Name \rightarrow <New Name>.

The display shows Device Name Saved.

9.3.6 Deleting Device Name

Procedure:

Swipe up the home screen, tap Settings \rightarrow Connected devices \rightarrow <*required device*> \rightarrow Delete.

The display shows Device Deleted.

9.3.7 Bluetooth Profiles

Your radio supports a wide range of Bluetooth services.

Bluetooth Profile	Description
Generic Access Profile (GAP)	This profile defines how Bluetooth-enabled de- vices can make themselves available and how two devices can communicate directly with each other.

Bluetooth Profile	Description
Generic Attribute Profile (GATT)	Allows profile discovery and description serv- ices for Bluetooth Low Energy protocol.
Headset Profile (HSP)	Provides support for the popular Bluetooth headsets to be used with mobile phones with ability to ring, answer a call, hang up, and ad- just the volume.
Personal Area Network (PAN)	Allows the device to share Internet connection with another device (for example a laptop) and to access the Internet shared by another device (for example a Bluetooth enabled phone).

Basic Radio Operation

This section explains the basic operation that you can perform on your radio.

10.1 Responding to Notifications

Procedure:

- 1 Swipe down the notification panel and perform one of the following actions:
 - To respond to a notification, tap the assigned action message.
 - To clear all notifications, tap Clear All.
- **2** To exit notification panel, swipe up.

10.2 Managing Home Screen Widgets

Procedure:

Options	Actions
Adding widgets to home screen	a Tap and hold an empty space on the home screen.
	b Tap widgets .
	c Tap and hold the <i><required widget=""></required></i> .
	d Drag the <required widget=""> to the <required location="">.</required></required>
Moving widgets within home screen	a Tap and hold the <required widget="">.</required>
	b Drag the <required widget=""> to the <required location="">.</required></required>
Moving widgets to the next screen	a Tap and hold the <required widget="">.</required>
	b Drag the <i><required widget=""></required></i> to the right of the screen.
	c Release the <i><required widget=""></required></i> to the <i><required location=""></required></i> .
Deleting widgets from home screen	a Tap and hold the <required widget="">.</required>
	b Tap remove .

10.3

Zone and Channel Selections

A zone is a group of channels. You can program each channel with different features that support different groups of users.

Table 26: Number of Supported Zones and Channels

Zones	Channels	Channels per Zone
250	1000	160

If there is a channel error, your radio displays the following error messages on the Radio Control Widget.

Table 27: Channel Error Messages

Туре	Description
Unprogrammed	The mode is set to an unprogrammed channel.
Fail 001	The selected channel is assigned to an incorrect frequency band.

10.3.1 Selecting Zone

Procedure:

Perform one of the following actions:

- To select a zone, tap Radio Control Widget → Current Zone → <required zone> → <required channel>.
- To select a zone from Recent tab, tap **Radio Control Widget** → **Recent** → <*required zone and channel*>.
- To search for zone, More → Ch Search → <required zone> → <required channel>

10.3.2 Selecting Channel

Procedure:

- To select a channel, tap Radio Control Widget → <required channel>.
- To select a channel from Recent tab, tap **Radio Control Widget** → **Recent** → <*required zone and channel*>.
- To search for channel, tap **•••** More \rightarrow **W** Ch Search \rightarrow *<required channel>*
- To select a channel using the **Channel Selector** knob, rotate the **Channel Selector** knob to the required position.

10.3.2.1 Channel Error Messages

If there is a channel error, your radio displays the following error messages on the Radio Control Widget.

Туре	Description
Unprogrammed	The mode is set to an unprogrammed channel.
Fail 001	The selected channel is assigned to an incorrect frequency band.

10.4

Managing Mode Select Menus

The Mode Select feature allows you to save the current zone and channel on your radio to one of the five Mode Select feature menus in the **Menu Feature Launcher Widget**. After that, the menus on the **home** screen function as shortcuts to the saved zone and channel.

Prerequisites: Navigate to the zone and channel that you want to save.

Procedure:

- 1 From the **home** screen, tap **More**.
- 2 Perform one of the following actions:
 - To save the current zone and channel to one of the Mode Select menus, tap and hold the required **Mode Select** menu.
 - To change to the preset zone and channel of the Mode Select menu, tap **Mode Select** menu.

10.5

Talkaround

This feature allows you to continue communicating when your repeater is non-operational, or when your radio is out of range from the repeater but within the talk range of other radios.

The talkaround setting is retained even after powering down.

10.5.1 Toggling Between Repeater and Talkaround Mode

Procedure:

- From the Menu Feature Launcher Widget, tap **More** \rightarrow **Repeater or Talkaround**.
- Press the programmed Repeater or Talkaround button.

^{10.6} Power Level

This feature allows you to reduce the transmit power level for a specific case that requires a lower power level.

The reduced transmitted power level does not affect the receiving performance of your radio nor diminish the data functionality of the radio.

Low power level enables a shorter transmitting distance and helps conserve power.

High power level enables a longer transmitting distance.

10.6.1 Setting Power Level

Procedure:

Perform one of the following actions:

- From the Radio Control Widget, tap **From** Radio Quick Settings → Power.
- From the Menu Feature Launcher Widget, tap **More** \rightarrow **Power**.

10.7 Setting LED Indicator

Procedure:

From the Menu Feature Launcher Widget, tap **More** \rightarrow **LED Indicator**.

10.8 Setting Squelch Levels

Procedure:

- **1** Perform one of the following actions:
 - From the Radio Control Widget, tap \mathbf{P} Radio Quick Settings \rightarrow Squelch.
 - From the Menu Feature Launcher Widget, tap **More** \rightarrow Squelch.
- 2 Perform one of the following actions:
 - For a normal squelch level, tap **Normal**.
 - To filter out unwanted calls or background noise, tap **Tight**.

10.9

Toggling the Controls and Buttons Tones On or Off

Procedure:

1 From the home screen, tap **More**.

To toggle the controls and buttons tones on or off, tap **Tones**.

Types of Radio Calls

Your radio can make different types of call.

Call Type	Description
All Call	An All Call is a call from an individual radio to every radio on the site or every radio at a group of sites. All Call is used to make important an- nouncement.
Broadcast Call	A Broadcast Call is a one-way voice call from any user to an entire talkgroup. The Broadcast Call feature allows only the call initiating user to transmit to the talkgroup, while the recipients of the call cannot respond.
Call Alert	Call Alert paging enables you to alert the recipi- ent to call you back when they are able to do so. Call Alert is applicable for subscriber aliases or IDs only.
Group Call	A Group Call is a point-to-multipoint call opera- tion. Your radio must be configured as a mem- ber of the group for you to communicate with each other.
Open Voice Channel Mode (OVCM) Call	An OVCM Call allows a radio that is not precon- figured to work in a particular system to both re- ceive and transmit during a group or individual call.
Private Call	A Private Call is a call from an individual radio to another individual radio. There are two types of Private call which are:
	Off Air Call Set-Up (OACSU)
	Full Off Air Call Set-Up (FOACSU)
Selective Call	A Selective Call is a call from an individual radio to another individual radio. It is a Private Call on an analog system.
Unaddressed Call	An Unaddressed Call is a group call to one of the 16 predefined group IDs.

11.1 **Making Calls**

Procedure:

To make calls, perform one of the following actions:

Option	Action
Making calls from Contact list	a From the home screen, tap $contact \rightarrow contact > $.
	b To start the call, tap PTT .
	c To end the call, tap End .
Making calls using dialer	a From the home screen, tap Con-
	tact $\rightarrow \textcircled{\blacksquare}$ Floating Action Button \rightarrow Dialer.
	b Enter the <i><preferred number=""></preferred></i> .
	<pre>c Tap More → <preferred call="" type="">.</preferred></pre>
	d To start the call, tap PTT .
	e To end the call, tap End.
Making calls from Recent calls	a From the home screen, tap •••• More → Recent Calls → <preferred contact>.</preferred
	b To start the call, tap PTT .
	c To end the call, tap End .
Making calls using Channel Knob and PTT button	a To select a channel with an active ID or alias, toggle the Channel Selector knob.
	b To call, press and hold the PTT button.
	c Wait for the Talk Permit Tone to end, and speak into the microphone.
	d To listen, release the PTT button.

11.2 **Responding to Calls**

Procedure:

To respond to calls, perform one of the following action:

Option	Action
Accepting Call	a Tap PTT.
Denying Call	a Tap Dismiss.
Ending Call	a When in call, tap End .

Emergency Operation

Emergency Alarms are used to indicate critical situations. You can initiate an Emergency Alarm at any time even when there is activity on the current channel.

You can only assign one type of Emergency Mode to the Emergency button for each zone. Your radio supports the following Emergency Modes:

Table 28: Emergency Modes

Emergency Mode	Description
Emergency Alarm	An Emergency Alarm is not a voice call. This alarm is an emergency notification sent to ra- dios that are programmed to receive them.
Emergency Alarm with Call	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, the group of radios can communicate over the assigned emergency channel. You must press the PTT button to talk.
Emergency Alarm with Voice to Follow	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, your radio microphone is automatically activat- ed which is known as Hot Mic. Hot Mic allows you to communicate with the group of radios without pressing the PTT button.
	 If the Emergency Cycle Mode is enabled, repetitions of Hot Mic and receiving period are made for a programmed duration.
	 If you press the PTT button during the programmed receiving period, a prohibit tone sounds. This tone indicates that you must release the PTT button. The radio ignores the PTT button-press and remains in Emergency Mode.
	 If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the Hot Mic directly.
Silent Emergency Alarm	Your radio transmits an emergency notification without any audio or visual indicators.
Silent Emergency Alarm with Call	Your radio transmits an emergency notification without any audio or visual indicators. Your ra- dio suppresses all audio and visual indicators of

Emergency Mode	Description
	the emergency until you press the PTT button to talk.
Silent Emergency Alarm with Voice to Follow	Your radio transmits an emergency notification without any audio or visual indicators. When the Emergency Alarm is acknowledged, the Hot Mic is activated, allowing you to communicate with the group of radios without pressing the PTT button.
	NOTICE: The indicators only appear when you press the PTT button.

NOTICE: Your dealer can set the Emergency On/Off function and button-press duration of the Emergency button. Contact your dealer for more information.

If programmed, the Emergency Search tone sounds. This tone is muted when your radio transmits or receives voice, and stops when your radio exits Emergency mode. Your dealer can program the Emergency Search tone.

12.1 Sending Emergency Alarms

Procedure:

Press the programmed Emergency On button.

If the alarm is successfully sent, your radio shows the following indications:

- The Emergency tone sounds.
- For Capacity Max, the green LED blinks.
- For Other Systems, the red LED blinks.
- The display shows Alarm Sent.

If the alarm is unsuccessful after all retries are exhausted, your radio shows the following indications:

- A negative tone sounds.
- The display shows Alarm Failed.

12.2 Sending Emergency Alarms with Call

Procedure:

1 Press the programmed **Emergency On** button.

If the alarm is successfully sent, your radio shows the following indications:

- The Emergency tone sounds.
- For Capacity Max, the green LED blinks.
- For Other Systems, the red LED blinks.
- The display shows Alarm Sent.

- 2 To call, press the PTT button.
- **3** Wait for the Talk Permit Tone to end, and speak into the microphone.
- 4 To listen, release the **PTT** button.

If your radio does not detect voice activity for a predetermined period, the call ends.

^{12.3} Sending Emergency Alarms with Voice to Follow

Procedure:

1 Press the programmed Emergency On button.

If the alarm is successfully sent, the Emergency tone sounds and Hot Mic is activated.

2 Speak into the microphone without pressing the PTT button.

Your radio automatically stops transmitting when:

- The cycling duration between hot mic and receiving calls expires, if Emergency Cycle Mode is enabled.
- The hot mic duration expires, if Emergency Cycle Mode is disabled.

12.4 Receiving and Responding to Emergency

When you receive an Emergency, your radio shows the following indications:

- A tone sounds.
- The red LED blinks.
- The Emergency notification appears and is added to the Recent Calls.
- The display shows Emer Alarm Received and the ID of the sender.

Procedure:

- 1 Perform one of the following actions:
 - To dimiss the Emergency, tap **DISMISS** on the notification.
 - To view the Emergency details, tap More → Recent Calls → <preferred Emergency received>.
 - To call back, tap More → Recent Calls → <preferred Emergency received> → PTT.



NOTICE: If you receive an Emergency from a sender with a different zone or channel, the information in the Recent Calls will be grayed out and unable to call back.

12.5 **Exiting Emergency Mode**

Your radio automatically exits emergency mode when you are having the following scenarios:

- · An acknowledgment is received from the system (for emergency alarms only).
- All retries to send the alarm are exhausted.

- Turning off your radio. When you turn on your radio, the emergency will not reinitiate automatically.
- Change your current channel to a channel with no Emergency.

Procedure:

Press the programmed **Emergency Off** button.

If you exited the Emergency successfully, your radio shows the following indications:

- The tone ceased.
- The red LED extinguished.

Man Down

The Man Down feature enables your radio to alert others when you are in danger.

If your radio tilts at a specified angle, is moving, or is stationary for a time, it prompts you with an Alert Tone. If you do not respond to the prompt before the predefined reminder timer expires, your radio automatically sends an Emergency Alarm or Emergency Call.

To prevent your radio from sending an Emergency Alarm or Emergency Call, you can take the following measures:

- For Tilt Alarm, you must restore the radio to the vertical position.
- · For Movement Alarm, you must stop your radio from moving.
- For Anti-Movement Alarm, you must move your radio.

If more than one Man Down Alarm is enabled, your radio plays the Alert Tone when it detects the first movement violation.

Man Dow

Man Down Alarms are not supported when operating in Fallback Mode.

13.1 Turning the Man Down Feature On or Off

Turning the Man Down Feature On

Procedure:

- 1 From the Radio Control Widget, tap **Radio Quick Settings**.
- 2 Toggle Man Down to on.

Turning the Man Down Feature Off

Procedure:

- 1 From the Radio Control Widget, tap **Radio Quick Settings**.
- 2 Toggle Man Down to off.

13.2 Exiting Man Down

Procedure:

To exit Man Down, tap **Cancel**.

Lone Worker

This feature prompts an emergency to be raised if there is no user activity, such as any radio button press or activation of the channel selector, for a predefined time.

When there is no user activity for a predefined time, the radio pre-warns you using an audio indicator and on-screen notification on both front and top display once the inactivity timer expires. You can cancel the notification and the timer for lone worker resets. The wake up and sleep button, and touch interface do not reset the timer.

If there is no acknowledgment from you before the predefined reminder timer expires, the radio initiates an emergency condition as programmed by the dealer.

Privacy

This feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are clear.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a requirement for receiving a transmission. While on a privacy-enabled channel, the radio is still able to receive clear transmissions.

Some radio models may not offer Privacy feature, or may have different configuration. Check with your dealer for more information.



NOTICE:

Only one type of privacy can be assigned at a time.

This feature is not applicable in Citizens Band channels that are in the same frequency.

The following describe the type of privacy and the settings that appear on your radio.

Table 29: Privacy Types and Settings

Туре	Setting
Symmetric Privacy	Sym Priv
Basic Privacy	Privacy
Enhanced Privacy	Enhanced Privacy

To unscramble privacy-enabled call or data transmission, your radio must be programmed to have the same type of Privacy Key as the transmitting radio. If your radio receives a scrambled call that is of a different Privacy Key, you hear a garbled transmission.

15.1 Turning Privacy On or Off

Procedure:

Perform one of the following actions:

- From the Radio Control Widget, tap \mathbf{P} Radio Quick Settings \rightarrow Privacy.
- From the Menu Feature Launcher Widget, tap **More** \rightarrow **Privacy**.
- Press the programmed **Privacy** button.

If privacy is turned on, your radio shows the following indications:

- The top display momentarily shows PRIVACY ON.
- The secure icon appears in the top display and Radio Control Widget.

If privacy is turned off, your radio shows the following indications:

³ Previously known as AES privacy.

- The top display momentarily shows PRIVACY OFF.
- The secure icon disappears from the top display and Radio Control Widget.

Contacts Settings

The Contacts Settings provides an address book function on your radio. Each entry corresponds to an ID for making calls. The entries are alphabetically sorted and different for analog and digital mode.

Each entry depending on context (conventional or trunking), associates with one or up to five IDs according to the following types of calls:

- Private Call
- Selective Call
- Call Alert

Each entry within Contacts contains the following information:

- Call Alias
- Call ID
- Call Type
- · System ID

16.1 Contacts Icons

Table 30: Contacts Icons

lcon	Description
<u>∽</u> 0	Missed Call
0	Emergency Call
	Private Call
	Call Alert
մի	Dual Tone Multi-Frequency (DTMF)

Accessing Contact Settings

- 1 From the home screen, tap **Contact**.
- 2 Perform one of the following actions:

Option	Actions
Viewing My Information	Navigate to My Information section.
Accessing dialer	Tap Floating Action Button \rightarrow Dialer
Searching contacts	 a Tap Search. b Enter the <required contact="" name="">.</required>
Creating new contacts	 a Tap Floating Action Button → New Contact. b Enter the required <required< li=""> </required<>
	contact name> and <required contact number>.</required
	<pre>c To change the tones, select the < required ringtone> and <required alert="" message="">.</required></pre>
	d Tap 🗸 Save.
Viewing contact details	 a Tap <required contact="">.</required> b To view the secondary information, tap down.
Editing contacts	a Tap < required contact > \rightarrow More \rightarrow Edit Contact.
	 b Make the required changes. NOTICE: In analog mode, you can only edit tones.
	c Tap 🗸 Save.
Deleting contacts	Tap <required contact=""> \rightarrow More \rightarrow Delete Contact.</required>
Assigning Favorite contact	Tap <required contact=""> \rightarrow $\overleftarrow{Favor-ite.}$</required>

16.2.1 Quick Actions

You can assign the following radio functions as **Quick Action** through the contact setting.

Table 31: Assignable Radio Functions for Individual Contacts

lcon	Name	Description
盲	Call	Allows you to initiate Private Call to the required con- tact.
	Call Alert	Allows you to send call alert to the required contact.
Þ	Message	Allows you to access the Text Message feature in Digi- tal mode and MDC Message feature in Analog mode through the radio menu.
te 1	Radio Check	Allows you to check if the radio is active in the system.
	Radio Enable or Disable	Allows a target radio to be remotely enabled or disa- bled.

Table 32: Assignable Radio Functions for Group Contacts

lcon	Name	Description
首	Call	Allows you to initiate Group Call to the required con- tact.
Þ	Message	Allows you to access the Text Message feature in Digi- tal mode and MDC Message feature in Analog mode through the radio menu.

16.2.1.1 Setting Quick Action

Procedure:

- 1 From the home screen, tap Contact.
- 2 Navigate to the <required contact>.
- 3 Tap and hold the **Quick Action** icon.

Call is the default **Quick Action**.

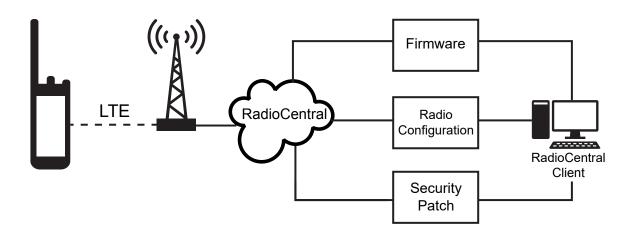
- **4** Perform one the follow actions:
 - Tap <preferred radio function>.
 - Tap ^{*}
 More → <preferred radio function>.

16.2.1.2 Using Quick Action

- **1** From the home screen, tap **Contact**.
- 2 Navigate to the <required contact>.
- 3 Tap the assigned **Quick Action**.
- If the **Quick Action** requires you to push the **PTT** button, the **Quick Action** icon turns blue.
- If the **Quick Action** does not requires you to push the **PTT** button, your radio launch the app for the assigned **Quick Action**.

SmartProgramming

The SmartProgramming service enables radio programming and updates over LTE broadband connection while the radios are in use. Seamless updates of firmware (full and differential), radio configuration and security updates are scheduled by the radio system administrator and the radio user is given a choice to install immediately or delay for later.



With SmartProgramming, you can apply a software feature to your radios on the go. Shortly after the purchase, the new software features license is loaded into RadioCentral and a provisioning job can be scheduled to enable the feature through LTE. Your radio service provider can also schedule a software update for your radio. When an update is available, your radio automatically downloads the update package. After the package is downloaded, you can install it immediately or later.

You or your service provider can reset your radio to factory settings by using this feature.

Voice Operating Transmission

Voice Operating Transmission (VOX) allows you to initiate hands-free voice-activated calls on a programmed channel. When your VOX-capable accessory detects voice, your radio automatically transmits for a programmed period.

Google Assistant and Voice Control are mutually exclusive with VOX.

NOTICE:

U

VOX is unable to initiate hands-free voice-activated calls if your radio is connected to any Bluetooth accessories.

This feature is not applicable in Citizen Band channels that are in the same frequency.

Contact your dealer or administrator for more information to enable this feature.

18.1 Setting Voice Operating Transmission

Procedure:

Perform one of the following actions:

- From the Radio Control Widget, tap Radio Quick Settings → VOX.
- From the Menu Feature Launcher Widget, tap **More** \rightarrow **VOX**.

Text Messaging

This feature allows you to quickly send and receive messages directly from your radios. The maximum length of a text message is 200 characters. Local date and time is time stamped on the messages.

19.1

Accessing Text Messages

Procedure:

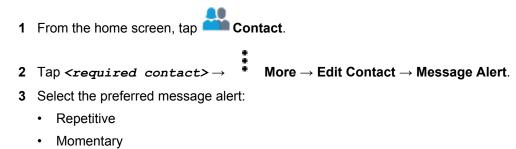
Perform one of the following actions:

Option	Actions
Viewing text mes- sage	From the home screen, tap \blacksquare All Messages $\rightarrow < preferred$ conversation>.
Searching for text message	Tap Q Search \rightarrow <i><user input=""></user></i> .
Sending text mes- sage through con- tact list	 a From the home screen, tap Contact → <preferred contact=""> → Message.</preferred> b Compose the message and tap Send.
Sending text mes- sage through dia- ler	a From the home screen, tap Contact \rightarrow Floating Action Button \rightarrow Dialer.
	 b Enter the required phone number, tap More → Message → Tap to Message. c Compose the message and tap Send.
Creating a new message	a From the home screen, tap \blacksquare All Messages \rightarrow Add or Rew Conversation .
	b Select your preferred contact or adding a new target.
	c Compose the message and tap Send.

Option	Actions		
Responding to text message with Quick Text	 a From the home screen, tap Contact → <preferred contact=""> → Message.</preferred> b Press the programmed One Touch Message button. 		
Forwarding a message	 a From the home screen, tap All Messages → <preferred conversation="">.</preferred> 		
	b Tap and hold the selected message, tap Forward \rightarrow <i><preferred contact=""></preferred></i> \rightarrow Send .		
Copying a mes- sage	 a From the home screen, tap All Messages → <preferred conversation="">.</preferred> 		
	 b Tap and hold the selected message, tap Copy. c Tap and hold the input field, tap Paste. 		
Deleting a single message	 a From the home screen, tap All Messages → <preferred conversation="">.</preferred> b Tap and hold the selected message, tap Delete → Delete. 		

19.2 Setting Message Alert Tone

Procedure:



4 Tap 🗸 Save.

Security

This feature allows the administrator or other radio subscriber to put a radio into a non-functional state when the radio is missing or in an unknown hand. The radio stays in this state regardless of its power changes.

The radio can only be uninhibited by receiving an uninhibited command from the administrator or other radio subscriber.

^{20.1} Disabling Radio

Procedure:

1 Perform one of the following actions:

Option	Actions
Disabling radio through contact list	a From the home screen, tap \clubsuit Contact . b Tap <required contact=""> \rightarrow More \rightarrow R. Disable.</required>
Disabling radio with Au-	
thentication through contact list	a From the home screen, tap Contact .
	b Tap <required contact=""> \rightarrow More \rightarrow R. Disable</required>
	ightarrow <authorized pin=""> $ightarrow$ Save.</authorized>
	NOTICE: Applicable to Conventional Digital only.
Disabling radio through programmable feature	a Press the programmed Radio Disable button.
button	b Tap <required contact=""> \rightarrow down \rightarrow Disable.</required>

20.2 Enabling Radio

Procedure:

1 Perform one of the following actions:

Option	Actions	
Enabling radio through contact list	a From the home screen, tap Contact.	

Option	Actions
	b Tap <i><required contact=""></required></i> \rightarrow More \rightarrow R. Enable .
Enabling radio with Au- thentication through contact list	a From the home screen, tap Contact.
	b Tap <required contact=""> \rightarrow * More \rightarrow R. Enable</required>
	ightarrow <authorized pin=""> $ightarrow$ Save.</authorized>
	NOTICE: Applicable to Conventional Digital only.
Enabling radio through programmable feature	a Press the programmed Radio Enable button.
button	b Tap <required contact=""> \rightarrow down \rightarrow Enable.</required>

Call Indicator Settings

This feature allows you to configure call or text message ringing tones.

21.1 Assigning Ring Styles

- 1 From the home screen, tap More \rightarrow Contacts $\rightarrow < preferred contact > \rightarrow$ More \rightarrow Edit Contact.
- 2 Perform one of the following actions:
 - To assign ringtone, tap **Ringtone** \rightarrow *<preferred tone>* \rightarrow **OK** \rightarrow **Save**.
 - To assign message alert, tap **Message Alert** \rightarrow *save*. **Save**.

Recent Calls

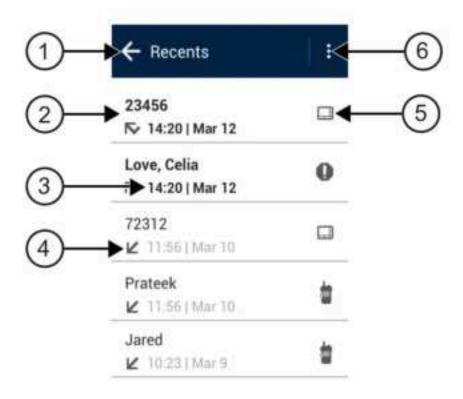
You are able to view missed, answered, or outgoing private calls, call alerts, and emergency alerts in Recent Calls.

In the list of recent calls, it is arranged in an ascending order of time with the most recents first. The list can store up to 50 recent calls and the oldest ones are deleted automatically.

For recent calls that you have not visited, it will appear in a bold font. You can choose to initiate a call straight away from the recent calls screen by pressing the **PTT** button.

The following shows the details from the Recent Calls screen:

Figure 7: Recent Calls Screen



Tab	le	33:	Cal	lout
		.	00.	i o oi c

No.	Description
1	Back to previous screen
2	Dialed Number
3	Timestamp

No.	Description
4	Call Type Icon
5	Call Type
6	Delete options

Accessing Recent Calls

Procedure:

- 1 From the home screen, tap **More** \rightarrow **Recent Calls**.
- **2** Perform one of the following actions:
 - To view recent calls, scroll through the list.
 - To delete a selected contact, tap **More** \rightarrow **Select to Delete** \rightarrow **<***preferred*
 - $contact > \rightarrow$ W Delete \rightarrow Delete.
 - To delete all contacts, tap ***** More \rightarrow Delete All \rightarrow Delete.
 - To add new contacts, tap <preferred contact>→
 * More → Add to Contact →
 <contact information> → Save.
 To edit existing contact, tap <preferred contact> →
 * More → <updated

information> \rightarrow Save.

• To call the contact, tap <preferred contact> and press the PTT button.

Call Queue

When there are no resources available to process a call, Call Queue enables the call request to be placed in the system queue for the next available resources.

23.1 Receiving a Call Queue

Procedure:

Press and hold the PTT button.

A tone is heard and the top display shows Call in Queue.

If receiving a Call Setup is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The green LED blinks.
- The display shows the call type icon, ID or alias.
- You have up to 4 seconds to press and hold the PTT button to begin voice transmission.

If receiving a Call Queue is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows the failure notice screen.
- · Radio terminates the call and exit the call setup.

Priority Call

Priority Call allows the system to preempt one of the ongoing non-priority calls and initiate the requested high priority call when all channels are busy.

With all channels occupied with high priority calls, the system does not preempt any calls, and places the requesting high-priority call into call queue. If the system fails to place the requesting high-priority call into call queue, it declares failure.

The default settings for Priority Call are preconfigured. When you use the following features, the call priority level reverts automatically to the preconfigured setting.

- All voice calls
- DMR III Text Message/Text Message

24.1 Switching Priority Call Level

Procedure:

Press the programmed Toggle Call Priority Level button.

If High Priority is enabled, your radio shows the following indications:

- The display shows Next Call: High Priority.
- The Call Priority High icon appears on the home screen.

If Normal Priority is enabled, your radio shows the following indications:

- The display shows Next Call: Normal Priority.
- The Call Priority High icon disappears on the home screen.

Scan

Depending on the supported system available on your radio, your radio may have different behaviour on Scan.

Talkgroup Scan

Talkgroup Scan is available for Capacity Max.

When scan is enabled, your radio unmutes to any member in its Receive Group List. When scan is disabled, your radio does not receive transmission from any members of the Receive Group List, except for All Call, Permanent Talkgroup, and the selected Talkgroup.

Channel Scan

Channel Scan is available for Other Systems.

Your radio scans through the programmed scan list for the current channel looking for voice activity when you start a scan. If you are on a digital channel, and your radio locks onto an analog channel, your radio automatically switches from digital mode to analog mode during the call and the same behaviour occurs if you are on a analog channel.

Table 34: Scan Types

Туре	Description
Main Channel Scan (Manual)	Your radio scans all the channels or groups in your scan list. When scanning, your radio may, depending on the settings, au- tomatically start on the last scanned active channel or group, or on the channel where scan was initiated.
Auto Scan (Automatic)	Your radio automatically starts scanning when you select a chan- nel or group that has Auto Scan enabled.

NOTICE: If your radio joins a call for a Zone Scan List member from a different Zone and Call
 Hang Timer expires before you are able to respond, in order to respond, you must navigate to the Zone and Channel of the Scan List Member and start a new call.

When you miss a call from a talkgroup or a channel that is in your scan list, you might be having the following situations:

- Scan feature is not turned on.
- Scan list member has been disabled through the menu.
- You are already participating in a call.
- No member of the scanned group is registered at your multisite systems only.⁴

⁴ Applicable to Capacity Max only.

25.1 Turning Scan On or Off

Procedure:

Perform one of the following actions:

- From the Radio Control Widget, tap \bigcirc Radio Quick Settings \rightarrow Scan.
- From the Menu Feature Launcher Widget, tap **More** \rightarrow **Scan**.
- Press the programmed **Scan** button.

25.2 Scan Talkback

If your radio scans into a call from the selectable group scan list, and if the **PTT** button is pressed during the scanned call, the operation of the radio depends on whether Scan Talkback was enabled or disabled during radio programming.

Table 35: Scan Talkback Type

Туре	Description
Scan Talkback Disabled	During an ongoing scanned call, if the PTT but- ton is pressed, the scanned call is terminated and a new call is launched.
Scan Talkback Enabled	During an ongoing scanned call, if the PTT but- ton is pressed, you can talkback to the scanned call.



NOTICE:

If your call is scan into a channel that is not in your current zone and the call ends, switch your radio to the previously scanned zone and channel to talkback to the scan group.

25.3 Nuisance Channels

Nuisance Channel is a channel that generates unwanted call continually.

You can temporarily remove the unwanted channel from the scan list and restore it back later on. This capability does not apply to the channel designated as the Selected Channel.

25.3.1

Deleting Nuisance Channels

Prerequisites: Your radio is scanned into the Nuisance Channel.

Procedure:

- 1 Press the programmed Nuisance Delete button until you hear a tone.
- 2 Release the programmed **Nuisance Delete** button.

The Nuisance Channel is deleted.

25.3.2 Restoring a Nuisance Channel

Procedure:

Perform one of the following actions:

- Cycle power your radio.
- Turn off and then turn on your scan.

25.4

Priority Monitor

Priority Monitor allows your radio to receive transmission from talkgroups with higher priority during talkgroup call. This feature is only applicable to members in Receive Group List.

Priority talkgroups are Priority 1 (P1) and Priority 2 (P2). Your radio receives transmission according to the following priority:

- 1 Emergency Call for P1 Talkgroup.
- 2 Emergency Call for P2 Talkgroup.
- 3 Emergency Call for non-priority Talkgroup in the Receive Group List.
- 4 All Call.
- 5 P1 Talkgroup Call.
- 6 P2 Talkgroup Call.
- 7 Non-priority Talkgroup in the Receive Group List.

25.5 Receive Group List

Receive Group List allows you to create and assign members on the talkgroup scan list. You can have a maximum of 16 members in a list.

When your radio is programmed to edit the scan list, you can perform the following actions:

- Add or remove talkgroups.
- Add, remove, and edit priority for talkgroups.
- · Add, remove, and edit affiliation talkgroups.
- · Replace the existing scan list with a new scan list.

If a talkgroup is programmed as Permanent Talkgroup, you are unable to edit the talkgroup from the scan list.

25.6 Scan Lists

You can create and assign individual channels or groups in Scan Lists. Your radio scans for voice activity by cycling through the channel or group sequence specified in the scan list for the current channel or group.

Your radio can support up to 250 scan lists, with a maximum of 16 members in a list. Each scan list supports a mixture of analog and digital entries.

The Priority icon on the left of member ID indicates whether the member is on Priority 1 or Priority 2 channel list. There is no icon if the priority is set to **None**.



NOTICE: This feature is not applicable to Capacity Plus.

25.6.1 Accessing Scan List

Procedure:

1

From the Menu Feature Launcher Widget, tap Scan List or **More** \rightarrow Scan List.

NOTICE: If the Scan List icon is grey out on the Menu Feature Launcher, you are unable

to access the scan list.

2 Perform one of the following actions:

Option	Actions
Setting Active Scan List	 a Perform one of the following actions: When there is no active scan list, tap View/Edit Scan List → <preferred list="" scan="">.</preferred> To change to a new active scan list, tap <current list="" scan=""> → Set Active Scan List → <preferred list="" scan="">.</preferred></current>
Viewing Scan List	Scroll through the list of members.
Adding priori- ties	 a Select the required tab according to your systems. For Capacity Max, you can select the scan list members from Scan List or Talkgroup tab. For Other Systems, you can select the scan list members from Scan List or Channel tab. b Tap <preferred list="" member="" scan=""> → <preferred priority="">.</preferred></preferred> NOTICE: If Priority 1 is not set, Priority 2 is grey out.
Deleting Scan List member	Tap <preferred list="" member="" scan=""> \rightarrow <remove from="" scan="">.</remove></preferred>
Searching Scan List	Tap Q Search → <user input="">.</user>

NOTICE: When the scan list is full, you are unable to add members into the list as it appears grey out. If the Scan List is empty, the Radio Control Widget shows Empty Scan List.

25.7 Flexible Receive List

The Flexible Receive List feature allows you to create and assign members on the receive talkgroup list.

Your radio can support a maximum of 16 members in the list.

25.7.1 Accessing Flexible Receive List

Procedure:

- 1 From the Menu Feature Launcher Widget, tap Scan List or More \rightarrow Scan List.
- 2 On the Talkgroup tab, select the preferred member and perform one of the following actions:
 - To add member, tap Add \rightarrow Add to List
 - To remove member, tap **Scan List** \rightarrow **Remove from List**

25.8 Multi-Talkgroup Affiliation

Your radio can be configured for up to seven talkgroups at a site.

Of the 16 talkgroups in the Receive Group List, up to seven talkgroups can be assigned as affiliation talkgroups. The selected talkgroup and the priority talkgroups are automatically affiliated.

25.8.1 Adding Talkgroup Affiliation

Procedure:

From the Menu Feature Launcher Widget, tap Scan List or More \rightarrow Talkgroup \rightarrow <required Talkgroup> \rightarrow Add to List.

25.8.2 Removing Talkgroup Affiliation

Procedure:

From the Menu Feature Launcher Widget, tap Scan List or More \rightarrow Talkgroup \rightarrow <required Talkgroup> \rightarrow Remove from List.

Dynamic Caller Alias

This feature allows you to dynamically edit a Caller Alias from your radio front panel.

When in a call, the receiving radio displays the Caller Alias of the transmitting radio.

The Caller Aliases list can store up to 500 Caller Aliases of transmitting radio. You can view or make Private Calls from the Caller Aliases list. When you turn off your radio, the history of receiving Caller Aliases is removed from the Caller Aliases list.

26.1 Editing Your Caller Alias

Procedure:

Perform one of the following actions:

Option	Actions
Editing your Caller Alias when turning on the radio.	 a Turn on your radio. b Enter your new <i><caller alias=""></caller></i>. c Tap OK.
Editing your Caller Alias from Radio Info.	 a From the home screen, tap ^{●●●} More → Radio Info. → My ID → OK → Edit . b Enter your new <i><caller alias=""></caller></i>.

The display shows a positive mini notice.

NOTICE: When in a call, the receiving radio displays your new Caller Alias.

26.2 Viewing the Caller Aliases List

You can access the Caller Aliases list to view the transmitting Caller Alias details.

Procedure:

From the home screen, tap **More** \rightarrow **Caller Aliases** $\rightarrow \langle Required Caller Alias \rangle \rightarrow$ **View Details**.

^{26.3} Initiating Private Call From the Caller Aliases List

You can access the Caller Aliases list to initiate Private Call.

- **1** From the home screen, tap **More** \rightarrow **Caller Aliases** \rightarrow **<***required Caller Alias***>**.
- 2 To call, press and hold the **PTT** button.

Location

The Global Navigation Satellite System (GNSS) integrates information from the Global Positioning System (GPS) and the Global Navigation Satellite System (GLONASS) to determine the approximate geographical location of your radio.

27.1 Turning Location On or Off

Turning Location On

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap Location.
- Swipe up the home screen, tap \mathbf{Q} Settings \rightarrow Location \rightarrow Use Location \rightarrow On.

Turning Location Off

Procedure:

Perform one of the following actions:

- Swipe down the notification panel, tap Location.
- Swipe up the home screen, tap \mathbf{P} Settings \rightarrow Location \rightarrow Use Location \rightarrow Off.

^{27.2} Indoor Location

You can use Indoor Location to keep track of the location of radio users. When Indoor Location is activated, the radio is in a limited discoverable mode. Dedicated beacons are used to locate the radio and determine its position.

27.2.1

Turning Indoor Location On or Off

Prerequisites: Make sure Indoor Location is enabled in Customer Programming Software (CPS).

Turning Indoor Location On

Prerequisites: Make sure Bluetooth is turned on in your radio.

Procedure:

Swipe up the home screen, tap \mathbf{Q} Settings \rightarrow Location \rightarrow Beacon Indoor Location \rightarrow On.

A message of Beacon Indoor Location enabled appears in the notification panel.

Turning Indoor Location Off

Procedure:

Perform one of the following action:

- Swipe down the notification panel, tap **Bluetooth** to turn off.
- Swipe down the notification panel, tap Beacon Indoor Location enabled message \rightarrow Beacon Indoor Location \rightarrow Off.
- Swipe up the home screen, tap Settings → Location → Beacon Indoor Location → Off.

Conventional Squelch Operation

This feature filters out unwanted calls with low signal strength or channels that have a higher than normal background noise.

Analog Options

Tone Private Line, Digital Private-Line, and carrier squelch is available (preprogrammed) per channel.

Option	Result
Carrier squelch	You hear all traffic on a channel.
Tone Private Line or Digital Private-Line	The radio responds only to your messages.

Digital Options

One or more of the following options may be preprogrammed in your radio. Contact your dealer or administrator for more information

Option	Result
Digital Carrier-Operated Squelch	You hear all digital traffic.
Normal Squelch	You hear any digital traffic having the correct network access code.
Selective Switch	You hear any digital traffic having the correct network access code and correct talkgroup.

Using the PL Defeat Feature

This feature allows you to override any coded squelch that preprogrammed to a channel. The radio also unmutes to any digital activity on a digital channel. When this feature is active, the Carrier Squelch status indicator is displayed.

Procedure:

Place the preprogrammed **PL Defeat** switch in the PL Defeat position.

One of the following occurs:

- The radio plays the active transmission on the channel.
- If no activity is present, the radio is muted

Home Channel Reminder

This feature provides a reminder when the radio is not set to the home channel for a while.

If this feature is enabled by using the Customer Programming Software (CPS) and your radio is not set to the home channel for some time, the following indications occur periodically:

- A tone and the Home Channel Reminder announcement sound.
- The top display shows NON HOME CH
- · Your radio receive Non Home Channel notification.

You can respond to the reminder by performing the following actions:

- Return to the home channel.
- Mute the reminder temporarily.
- Set a new home channel.

30.1 Muting Home Channel Reminder

When the Home Channel Reminder sound, you can temporarily mute the reminder.

Procedure:

Tap **Dismiss** on the **Non Home Channel** notification.

30.2 Setting New Home Channel

- 1 Tap Radio Control Widget.
- 2 Tap and hold the *<required channel>* until you hear a tone.

Monitor Feature

This feature allows you to ensure that a channel is free before transmitting.

31.1 Monitoring Channel

Procedure:

1 Press and hold the programmed Monitor button.

Your radio shows the following indications:

- You hear the radio activity.
- The yellow LED illuminates.
- The display shows the Monitor icon.
- 2 To call, press and hold the PTT button.
- 3 To listen, release the PTT button.

31.2 Permanent Monitor

The Permanent Monitor feature is used to continuously monitor a selected channel for activity.

31.2.1 Turning the Permanent Monitor On

Procedure:

Press and hold the programmed Permanent Monitor button.

When your radio enters the mode, your radio shows the following indications:

- An alert tone sounds.
- The display shows PERM MON ON and the Monitor icon.

31.2.2 **Turning the Permanent Monitor Off**

Procedure:

Press and hold the programmed **Permanent Monitor** button.

When your radio exits the mode, your radio shows the following indications:

- An alert tone sounds.
- The display shows PERM MON OFF.

Trunking System Control

This feature allows your radio to communicate the trunking status when on a trunking channel Your radio can communicate different types of trunking statuses.

Table 36: Types of Trunking System Status

Types of Trunking System Status	Description
Out of Range	 When your radio goes out of the range, it can no longer lock onto a control channel.
	 You hear a low-pitched tone, and or the dis- play shows the currently selected zone or channel combination, and Out of range noti- fication. Your radio remains in this out-of- range condition until it locks onto a control channel, or if it is turned off.
Site Trunking	 If the Zone Controller loses communication with any site, that site reverts to site trunk- ing. When this occurs, you can communicate only with the radios within your trunking site.
	 Your radio displays the current selected zone or channel, and the Site Trunking mes- sage.
Affiliation Failed	 Affiliation failed is when the radio is success- fully locked and registered to a site, but fails to affiliate to Unified Knob Position (UKP) or P1 or P2.
	 Your radio displays failed message, the site alias, and the UKP alias.
Registration Denied	 Registration denied is when your radio regis- tration is denied on a site.
	 Your radio displays failed message and the UKP alias.

32.1 Viewing RSSI Value

Procedure:

Press the 2-Dot Programmable Feature button five times.

The top display shows the RSSI value.

Dynamic Group Number Assignment

Dynamic Group Number Assignment (DGNA) is a feature, which allows the console to assign and remove a new talkgroup from your radio over the air.

When the console assigns DGNA to your radio, your radio is in DGNA mode:

- A tone sounds.
- The top display momentarily shows DGNA ASSGNED.
- The display momentarily shows <DGNA Talkgroup Alias> is assigned.
- The DGNA icon appears in the top display and Radio Control Widget.
- The top display and Radio Control Widget show DGNA talkgroup alias.

When the console removes DGNA from your radio, your radio returns to the previous talkgroup:

- A tone sounds.
- The top display momentarily shows DGNA REMOVED.
- The display momentarily shows <DGNA Talkgroup Alias> is removed.
- The DGNA icon disappears from the top display and Radio Control Widget.
- The top display and radio control widget show the previous talkgroup alias.

Depending on how your radio is programmed, you can view, edit, and listen to the original scan lists channels and the non-DGNA talkgroups.

When your radio is in DGNA mode, press and hold the **PTT** button allows you to communicate only with the current DGNA talkgroup. To communicate with the previous non-DGNA talkgroup, program the programmed **One Touch Access** button.



NOTICE: Check with your dealer or system administrator to determine how your radio has been programmed.

33.1 Making DGNA Calls

Prerequisites: Your radio is in DGNA mode.

Procedure:

To call, press and hold the **PTT** button.

Your radio shows the following indications:

- A DGNA tone sounds.
- · The DGNA icon appears in the top display and Radio Control Widget.
- The top display and Radio Control Widget show DGNA talkgroup alias.



NOTICE: If your radio is not in DGNA mode and you press the programmed **One Touch Access** button, your radio sounds a negative tone, indicating error. The display remains unchanged.

33.2 Making Non-DGNA Calls

Procedure:

Perform one of the following actions:

lf	Then
If your radio is in DGNA mode,	press the programmed One Touch Access button.
If your radio is not in DGNA mode,	 perform the following actions: a Press the programmed One Touch Access button.
	 b Before the negative tone sounds and your radio returns to the home screen, press and hold the PTT button.

Your radio shows the following indications:

- A positive tone sounds.
- Voice Announcement sounds.
- The top display and Radio Control Widget shows <Talkgroup Alias> and Press PTT momentarily.



NOTICE:

If your radio is not in DGNA mode and you press the **One Touch Access** button, your radio sounds a negative tone, indicating error. The display remains unchanged.

When your radio is in the home screen, a PTT press makes call to the DGNA talkgroup.

^{33.3} **Receiving and Responding to DGNA Calls**

When you receive a DGNA call, your radio shows the following indications:

- A DGNA tone sounds.
- · The DGNA icon appears in the top display and Radio Control Widget.
- Your radio unmutes and the incoming call sounds through the speaker.

- 1 To call, press and hold the **PTT** button.
- 2 To listen, release the PTT button.

Auto Roaming

Depending on your radio system, this feature allows your radio to roam to a required site. A multi-site channel has auto roaming capability when it is attached with a site search list. Your radio can roam to different sites through site search.

Table 37: Types of Site Search

Types of Site Search	Description
Passive Site Search (PassiveSS)	When Site Lock is turned off, PassiveSS scans available sites and selects the strongest signal as current home.
Active Site Search (ActiveSS)	ActiveSS sends wakeup requests to the repeater.

More \rightarrow Roam.

34.1 Turning Site Lock On or Off

Turning Site Lock On

Procedure:

- 1 From the Menu Feature Launcher Widget, tap
- 2 Toggle Site Lock to on.

Your radio locks the current site and stops auto roaming. The Roam icon disappears.

Turning Site Lock Off

Procedure:

- 1 From the Menu Feature Launcher Widget, tap **More** \rightarrow **More** \rightarrow **Roam**.
- 2 Toggle Site Lock to on.

Your radio enables auto roaming. The Roam icon appears.

34.2 Accessing Active Site Search

Procedure:

From the Menu Feature Launcher Widget, tap **More** \rightarrow **More** \rightarrow **Roam** \rightarrow **Active Search**. Your radio searches for a site.

- If a site is found, your radio displays a message with the site alias and updates the site alias onto Radio Control Widget.
- If a site is not found, your radio displays a temporary error message.

34.3 Accessing Current Site Information

When and where to use: This feature is only available for Capacity Plus and Capacity Max systems.

Procedure:



34.4

Accessing Neighboring Site Information

When and where to use: This feature is only available for Capacity Max system.



Radio Check

If enabled, this feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio.

This feature is only applicable for subscriber IDs.

35.1 Sending Radio Check

- 1 From the home screen, tap **Contact**.
- 2 Perform one of the following actions:

Option	Actions
Sending radio check through saved con- tacts	 a Navigate to the <i><required contact=""></required></i>. b Tap and hold the Quick Action icon. c Tap [*] More → [*] R. Check.
Sending radio check through dialer	 a Tap Floating Action Button → Dialer. b Enter the <required contact="" number="">.</required> c Tap More → Radio Check.

Initiating Transmit Interrupt

Procedure:

An ongoing call is interrupted, when you perform the following actions:

- Press the PTT button.
- Press the Emergency button.
- For non Capacity Max, perform data transmission.
- For non Capacity Max, press the programmed **TX Interrupt Remote Dekey** button.

The receiving radio displays CALL INTER.

Auto-Range Transponder System

The Auto-Range Transponder System (ARTS) is an analog-only feature designed to inform you when your radio is out-of-range of other ARTS-equipped radios.

ARTS-equipped radios transmit or receive signals periodically to confirm that they are within range of each other.

Your radio provides indications as follows:

Table 38:	Auto-Range	Transponder S	Svstem	Indications
10010 00.	/ late i lange	i lanoponaon e		maioationio

Indications	Description
First-Time Alert	A tone sounds.
	• The display shows In Range after the channel alias.
ARTS-in-Range Alert	A tone sounds, if programmed.
	• The display shows In Range after the channel alias.
ARTS-Out-of-Range Alert	A tone sounds.
	The Red LED rapidly blinks.
	• The display shows Out of Range alternat- ing with the Home screen.

Chapter 38

Applications

This section contains information on applications available on your radio. You can access these applications through the Home Screen or swiping up from the bottom of the Home Screen to open Applications Menu window.

Table 39: Appilcations

lcon	Name	Description
*	Calculator	Allows you to perform basic and scientific arithmetic functions.
31	Calendar	Allows you to manage events and appointments.
0	Camera	Allows you to take photos and videos.
0	Chrome	Provides access to the Internet.
Ŷ	Clock	Allows you to set an alarm, stopwatch, or timer.
8	Contacts	Allows you to manage contact information.
4	Drive	Provides access to files anywhere through secure cloud storage and file backup for photos, videos, files and more.
0	Duo	Allows you to make video calls.
0	Files	Allows you to view and manage files.
<u>~</u>	Gallery	Allows you to view photos or videos.
Μ	Gmail	Allows you to send and receive emails.
G	Google	Allows you to find what you need on the web and on your device.
<u>,</u>	Keep Notes	Allows you to create, store, and categorize notes, lists, reminders, images, audio, and many more.
Q	Maps	Allows you to use real-time GPS navigation and locate specific places.
0	Messages	Allows you to send and receive messages.
n	Music	Allows you to play music.
د	Phone	Allows you to make phone calls.
*	Photos	Allows you to access Google smart gallery with unlimit- ed photo and video storage.

lcon	Name	Description
	Play Movies and TV	Allows you to stream movies and TV shows on Google Play.
>	Play Store	Allows you to search, download, and manage applica- tions.
\$	Settings	Provides settings to configure the device.
othe	Sound Recorder	Allows you to record sounds.
	Videos	Allows you to play and manage media files.
()	WAVE	Provides secure Push-to-Talk (PTT) service on the go.
	Youtube	Allows you to watch videos and music.
\bigcirc	YouTube Music	Allows you to listen to music.

38.1 Camera

You can use the Camera application to take photos or record videos.

38.1.1 Taking Photos

Procedure:

- 1 From the menu, tap 🔍 Camera.
- **2** Perform one of the following actions:

Option	Action
Taking photos in normal mode	a Tap Camera on Mode Selection Bar.
	Figure 8: Mode Selection Bar
	b If you want to change camera settings,
	tap 🄁 Settings.
	c Frame the subject on your screen.

Option	Action	
	d To zoom in or zoom out, press two fin- gers on the display and pinch or expand fingers. The zoom controls appear on the screen.	
	e To take photos, tap 🖸 Camera.	
Taking photos in panoramic mode	a Tap Camera on Mode Selection Bar.	
	b Tap 🔤 Panoramic.	
	c To start, capture the photo from the left- most edge of the image and move to- wards the rightmost edge.	
	d To stop capturing the photo, tap Stop .	

38.1.2 Recording Videos

Procedure:

- 1 From the menu, tap 💽 Camera.
- 2 Tap Tideo on Mode Selection Bar

Figure 9: Mode Selection Bar

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- 3 If you want to change video settings, tap **E** Settings.
- 4 To start recording, tap Start Record.
- **5** To zoom in or out, press two fingers on the display and pinch or expand fingers. The zoom controls appear on the screen.
- 6 To stop recording, tap **Stop Record**.

38.2 Gallery

You can manage your albums, photos, or videos using the Gallery application.

NOTICE: The device supports the following image formats: JPEG, GIF, PNG, HEICand BMP.

1

You can use Photos to perform the following actions:

- View albums, photos, and videos
- Play videos
- · Perform basic editing on albums, photos, and videos
- · Set photos as a wallpaper
- Set photos as a contact photo
- Share photos and videos

The Gallery application contains all albums, photos, and videos stored on the microSD card and in the internal memory.

38.2.1 Viewing and Browsing in Gallery

Procedure:

- 1 From the menu, tap 🏜 Gallery.
- 2 Perform one of the following actions:
 - Tap an album of your choice.
 - Tap a photo.
 - To view the next or previous photo in the album, swipe left or right.
 - To view controls, tap a photo.
 - To zoom in or zoom out, double tap or press two fingers on the display and pinch or expand fingers on a photo.
 - To view parts that are not in view, drag the photo.

38.2.2 Sharing Items from Photos

Procedure:

- 1 From the menu, tap 🍊 Gallery.
- 2 To share items, tap <required item> \rightarrow < Share \rightarrow <required application>.

38.2.3 Deleting Items from Gallery

Procedure:

- 1 From the menu, tap 🏜 Gallery.
- 2 To delete items, tap *required item>* \rightarrow **Delete** \rightarrow **OK**.

38.2.4 Cropping Photos

Procedure:

- 1 From the menu, tap **Gallery**.
- 2 To crop photos, tap *required photo>* \rightarrow **Edit** \rightarrow **U** Crop. The cropping grid appears.
- **3** Perform one of the following actions:

Option	Actions	
Cropping the photo manually	a To select the portion of the photo to crop, adjust the endpoints.	
Choosing automatic cropping dimen-	a Tap 1:1 .	
sions	 b If you want to view the original photo, tap Original. 	

- 4 To confirm, tap **Yes**.
- 5 To save, tap **SAVE**.

38.2.5 Rotating Photos

Procedure:

- 1 From the menu, tap 🏜 Gallery.
- 2 To rotate photos, tap *required photos* \rightarrow **Edit** \rightarrow **Crop** \rightarrow **Rotate** The photo rotates to 90° clockwise. Each tap rotates the photo to another 90°.
- 3 Tap SAVE to confirm.

38.2.6 Watching Videos

Procedure:

- 1 From the menu, tap A Gallery.
- 2 To watch videos, tap Videos → <required video> → V Play → <required application>.
- 3 To see the video playback or continue where you left off last time, drag the video progress bar.
- 4 To return to the previous screen, tap Back.

38.3 Scanning Barcode or QR Code

Procedure:

- 1 From the menu, tap Asset Tracking Application \rightarrow Asset Tracker Shown.
- 2 Press the programmed Scanner button.

The barcode or QR code is captured and populated in the text field.

^{38.4} Turning On the Flash Light

Procedure:

- 1 To open Quick Settings panel, swipe down the Status bar from the screen.
- 2 To turn on the flash light, tap Torch.

^{38.5} Managing Downloads

You can download, install, view applications, and media files when your radio is connected to the Internet through Wi-Fi or network service provider.

Procedure:

- 1 From the menu, tap **Files**.
- 2 Tap \longrightarrow Menu \rightarrow Files \rightarrow <required file type>.
- 3 Perform one of the following actions:

Option	Actions	
Sharing downloaded item	 a Tap and hold the <required item="">.</required> b To share the downloaded item, tap < Share → Share via → <required application="">.</required> 	
Deleting downloaded item	a Tap and hold the <i><required item=""></required></i> . b To delete, tap \square Delete \rightarrow OK.	

38.6 Exploring Files

You can view, edit, or create files using the the File Manager application.

Procedure:

1 From the menu, tap **V** Files.

The main screen appears and displays the storage available on your device.

- 2 Tap <required file>.
- 3 To do more actions on files, tap the three dots on the bottom-left corner of the screen.
- 4 Select one of the following options:
 - To view the properties of the selected folder or file, tap **Properties**.
 - To refresh the application, tap **Refresh**.
 - To create new folder, tap **New folder**.
 - To create new file, tap **New file**.
 - To select all of the folder or files in file manager, tap Select all.
 - To deselect all of the folder or files in file manager, tap **Deselect all**.
 - To delete the selected folder or file, tap **Delete Selection**.
 - To add the folder or file to bookmark, tap Add to bookmarks.
 - To add the folder or file as shortcut to the Home screen, tap Add shortcut.

Authorized Accessories List

Motorola Solutions provides approved accessories to improve the productivity of your radio. See *MN006920A01* to know more about the accessories supported by your radio.

For more information visit https://learning.motorolasolutions.com.

Legal and Compliance Statements

Supplier's Declaration of Conformity

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: MSLB-MKZ900

conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a)

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

NOTICE:

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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 or TV technician for help.

For country code selection usage (WLAN devices)

NOTICE: The country code selection is for non-US model only and is not available to all US models. Per FCC regulation, all Wi-Fi products marketed in the US must be fixed to US operation channels only.

Industry Canada WLAN Statement

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CAUTION:

- 1 The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
- 2 The maximum antenna gain permitted for devices in the bands 5250–5350 MHz and 5470– 5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit.
- **3** The maximum antenna gain permitted for devices in the band 5752–5850 MHz shall be such that the equipment still complies with e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate.
- **4** The worst case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2 (3) shall be clearly indicated.
- **5** User should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Notice to Users (FCC)

This device complies with Part 15 of the FCC rules 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.
- Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

Notice to Users (Industry Canada)

The operation of your Motorola Solutions radio is subject to the Radiocommunications Act and must comply with rules and regulations of the Federal Government's department of Industry Canada. Industry Canada requires that all operators using Private Land Mobile frequencies obtain a radio license before operating their equipment.

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 subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

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Important Safety Information

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios



CAUTION:

This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

Any modification to this device, not expressly authorized by Motorola Solutions, may void the user's authority to operate this device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter has been approved by Industry Canada to operate with Motorola Solutionsapproved antenna with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Batteries and Chargers Warranty

The Workmanship Warranty

The workmanship warranty guarantees against defects in workmanship under normal use and service.

All MOTOTRBO Batteries	24 Months
IMPRES Chargers (Single-Unit and Multi-Unit, Non-Display)	24 Months
IMPRES Chargers (Multi-Unit with Display)	12 Months

The Capacity Warranty

The capacity warranty guarantees 80% of the rated capacity for the warranty duration.

Nickel Metal-Hydride (NiMH) or Lithium-Ion (Li- Ion) Batteries	12 Months
IMPRES Batteries, When Used Exclusively with IMPRES Chargers	18 Months

Limited Warranty

MOTOROLA SOLUTIONS COMMUNICATION PRODUCTS

I. WHAT THIS WARRANTY COVERS AND FOR HOW LONG:

Motorola Solutions, Inc. ("Motorola Solutions") warrants the Motorola Solutions manufactured Communication Products listed below ("Product") against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

Portable Radios	Two (2) Years
Product Accessories	One (1) Year

Motorola Solutions, at its option, will at no charge either repair the Product (with new or reconditioned parts), replace it (with a new or reconditioned Product), or refund the purchase price of the Product during the warranty period provided it is returned in accordance with the terms of this warranty. Replaced parts or boards are warranted for the balance of the original applicable warranty period. All replaced parts of Product shall become the property of Motorola Solutions.

This express limited warranty is extended by Motorola Solutions to the original end user purchaser only and is not assignable or transferable to any other party. This is the complete warranty for the Product manufactured by Motorola Solutions. Motorola Solutions assumes no obligations or liability for additions or modifications to this warranty unless made in writing and signed by an officer of Motorola Solutions.

Unless made in a separate agreement between Motorola Solutions and the original end user purchaser, Motorola Solutions does not warrant the installation, maintenance or service of the Product.

Motorola Solutions cannot be responsible in any way for any ancillary equipment not furnished by Motorola Solutions which is attached to or used in connection with the Product, or for operation of the Product with any ancillary equipment, and all such equipment is expressly excluded from this warranty. Because each system which may use the Product is unique, Motorola Solutions disclaims liability for range, coverage, or operation of the system as a whole under this warranty.

II. GENERAL PROVISIONS

This warranty sets forth the full extent of Motorola Solutions responsibilities regarding the Product. Repair, replacement or refund of the purchase price, at Motorola Solutions option, is the exclusive remedy. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER EXPRESS WARRANTIES. IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL MOTOROLA SOLUTIONS BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, FOR ANY LOSS OF USE, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, LOST PROFITS OR SAVINGS OR OTHER INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE SUCH PRODUCT, TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW.

III. STATE LAW RIGHTS:

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY. This warranty gives specific legal rights, and there may be other rights which may vary from state to state.

IV. HOW TO GET WARRANTY SERVICE

You must provide proof of purchase (bearing the date of purchase and Product item serial number) in order to receive warranty service and, also, deliver or send the Product item, transportation and insurance prepaid, to an authorized warranty service location. Warranty service will be provided by Motorola Solutions through one of its authorized warranty service locations. If you first contact the company which sold you the Product (for example, dealer or communication service provider), it can facilitate your obtaining warranty service. You can also call Motorola Solutions at 1-800-927-2744.

V. WHAT THIS WARRANTY DOES NOT COVER

- 1 Defects or damage resulting from use of the Product in other than its normal and customary manner.
- 2 Defects or damage from misuse, accident, water, or neglect.
- **3** Defects or damage from improper testing, operation, maintenance, installation, alteration, modification, or adjustment.
- 4 Breakage or damage to antennas unless caused directly by defects in material workmanship.
- **5** A Product subjected to unauthorized Product modifications, disassembles or repairs (including, without limitation, the addition to the Product of non-Motorola Solutions supplied equipment) which adversely affect performance of the Product or interfere with Motorola Solutions normal warranty inspection and testing of the Product to verify any warranty claim.
- 6 Product which has had the serial number removed or made illegible.
- 7 Rechargeable batteries if:
 - any of the seals on the battery enclosure of cells are broken or show evidence of tampering.
 - the damage or defect is caused by charging or using the battery in equipment or service other than the Product for which it is specified.
- 8 Freight costs to the repair depot.
- **9** A Product which, due to illegal or unauthorized alteration of the software/firmware in the Product, does not function in accordance with Motorola Solutions published specifications or the FCC certification labeling in effect for the Product at the time the Product was initially distributed from Motorola Solutions.
- **10** Scratches or other cosmetic damage to Product surfaces that does not affect the operation of the Product.
- 11 Normal and customary wear and tear.

VI. PATENT AND SOFTWARE PROVISIONS

Motorola Solutions will defend, at its own expense, any suit brought against the end user purchaser to the extent that it is based on a claim that the Product or parts infringe a United States patent, and Motorola Solutions will pay those costs and damages finally awarded against the end user purchaser in any such suit which are attributable to any such claim, but such defense and payments are conditioned on the following:

- 1 Motorola Solutions will be notified promptly in writing by such purchaser of any notice of such claim,
- 2 Motorola Solutions will have sole control of the defense of such suit and all negotiations for its settlement or compromise, and

3 Should the Product or parts become, or in Motorola Solutions opinion be likely to become, the subject of a claim of infringement of a United States patent, that such purchaser will permit Motorola Solutions, at its option and expense, either to procure for such purchaser the right to continue using the Product or parts or to replace or modify the same so that it becomes non-infringing or to grant such purchaser a credit for the Product or parts as depreciated and accept its return. The depreciation will be an equal amount per year over the lifetime of the Product or parts as established by Motorola Solutions.

Motorola Solutions will have no liability with respect to any claim of patent infringement which is based upon the combination of the Product or parts furnished hereunder with software, apparatus or devices not furnished by Motorola Solutions, nor will Motorola Solutions have any liability for the use of ancillary equipment or software not furnished by Motorola Solutions which is attached to or used in connection with the Product. The foregoing states the entire liability of Motorola Solutions with respect to infringement of patents by the Product or any parts thereof.

Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted Motorola Solutions software such as the exclusive rights to reproduce in copies and distribute copies of such Motorola Solutions software. Motorola Solutions software may be used in only the Product in which the software was originally embodied and such software in such Product may not be replaced, copied, distributed, modified in any way, or used to produce any derivative thereof. No other use including, without limitation, alteration, modification, reproduction, distribution, or reverse engineering of such Motorola Solutions software or exercise of rights in such Motorola Solutions software is permitted. No license is granted by implication, estoppel or otherwise under Motorola Solutions patent rights or copyrights.

VII. GOVERNING LAW

This Warranty is governed by the laws of the State of Illinois, U.S.A.

VIII. For Australia Only

This warranty is given by Motorola Solutions Australia Pty Limited (ABN 16 004 742 312) of Tally Ho Business Park, 10 Wesley Court. Burwood East, Victoria.

Our goods come with guarantees that cannot be excluded under the Australia Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Motorola Solutions Australia's limited warranty above is in addition to any rights and remedies you may have under the Australian Consumer Law. If you have any queries, please call Motorola Solutions Australia at 1800 457 439. You may also visit our website: http://www.motorolasolutions.com/XA-EN/Pages/Contact_Us for the most updated warranty terms.

Déclarations juridiques et de conformité

Déclaration de conformité du fournisseur

Déclaration de conformité du fournisseur

Règlement CFR 47, partie 2, section 2.1077(a) de la FCC



Partie responsable

Nom : Motorola Solutions, Inc.

Adresse : 2000 Progress Pkwy, Schaumburg, IL. 60196

Numéro de téléphone : 1 800 927-2744

Déclare par les présentes que le produit :

Nom du modèle : MSLB-MKZ900

est conforme aux réglementations suivantes :

Partie 15, sous-partie B, section 15.107(a), 15.107(d) et section 15.109(a) des règlements de la FCC.

Appareil numérique de classe B

En tant que périphérique d'ordinateur personnel, cet appareil est conforme aux dispositions de la partie 15 des règlements de la FCC. Son utilisation est assujettie aux deux conditions suivantes :

- 1 Cet appareil ne doit pas causer d'interférence nuisible, et
- 2 Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.

AVIS:

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Cet équipement a fait l'objet de tests et a été déclaré conforme aux limites établies pour un appareil numérique de classe B, conformément à la section 15 des règlements de la FCC. Ces limites sont fixées afin d'offrir une protection suffisante contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé ou utilisé conformément aux instructions, il peut provoquer un brouillage nuisible aux communications radio. Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière.

Si cet appareil cause une interférence nuisible à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en allumant l'appareil, l'utilisateur est encouragé à remédier à la situation en prenant l'une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne réceptrice.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'appareil dans une autre prise sur un circuit différent de celui du récepteur.
- Consulter le détaillant ou un technicien de radio ou de télévision qualifié pour obtenir de l'aide.

Pour un usage en fonction de la sélection du code de pays (appareils WLAN)

AVIS:

1

La sélection du code de pays est pour les modèles non américains seulement et n'est pas disponible sur tous les modèles américains. Conformément à la réglementation de la FCC, tous les produits Wi-Fi commercialisés aux États-Unis doivent être fixés sur des canaux fonctionnant aux États-Unis uniquement.

Déclaration relative au WLAN (Industrie Canada)

MISE EN GARDE:

- 1 L'appareil fonctionnant dans la bande 5 150 à 5 250 MHz est uniquement destiné à une utilisation à l'intérieur afin de limiter les risques d'interférences avec les systèmes mobiles satellites dans un canal commun.
- 2 Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5 250 à 5 350 MHz et de 5 470 à 5 725 MHz doit être conforme à la limite de puissance isotrope rayonnée équivalente (p.i.r.e).
- 3 Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour les dispositifs utilisant la bande de 5 752 à 5 850 MHz doit être conforme à la limite de p.i.r.e spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas.
- 4 Les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de p.i.r.e applicable au masque d'élévation, et énoncée à la section 6.2.2 (3), doivent être clairement indiqués.
- 5 Les utilisateurs devraient aussi être avisés, d'une part, que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) des bandes de 5 250 à 5 350 MHz et de 5 650 à 5 850 MHz et, d'autre part, que ces radars pourraient causer du brouillage ou des dommages aux dispositifs de RL-EL.

Avis aux utilisateurs (FCC)

Cet appareil est conforme à la partie 15 des règlements de la FCC d'après les conditions suivantes : s

- Cet appareil ne doit pas causer d'interférence nuisible.
- Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.
- Toute modification apportée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser cet appareil.

Avis aux utilisateurs (Industrie Canada)

Le fonctionnement de votre radio Motorola Solutions est assujetti à la Loi sur la radiocommunication et doit se conformer aux règles et règlements du ministère Innovation, Sciences et Développement économique Canada du gouvernement fédéral. Industrie Canada exige que les utilisateurs de fréquences mobiles terrestres privées obtiennent une licence avant d'utiliser leur équipement.