

MOTOROLA SOLUTIONS MN007868A01-AE Portable Two Way Radios User Guide

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MOTOROLA SOLUTIONS MN007868A01-AE Portable Two-Way Radios



Product Information

Specifications

- Product Name: MOTOTRBOTM R7 Portable Two-Way Radios
- **Device Type:** Land Mobile Radio (LMR)
- Activation Requirement: One-time activation for software features and services
- Connectivity: Wi-Fi for access point setup
- Software Tools: RadioCentral Server, Radio Management (RM), Customer Programming Software (CPS) 2.0

Product Usage Instructions

Activation Overview

MOTOTRBOTM R7 is an advanced cloud-ready Land Mobile Radio (LMR) device. It requires a one-time activation to enable the software features and services purchased with the radio.

Initial Activation Process

- 1. Set up Wi-Fi Access Point: Follow the instructions provided to connect the radio to a Wi-Fi network for initial setup.
- 2. Activation and Firmware Update: Activate the device to obtain specific software features and settings from the RadioCentral Server. Ensure that the radio downloads the latest firmware for updated software features and security patches.
 - Best Practices: Refer to the user manual for best practices during the activation and firmware update process.

Troubleshooting

If you encounter any issues during the activation process or while using the device, refer to the troubleshooting section in the user manual for guidance on resolving common problems.

Frequently Asked Questions

Q: What should I do if my device fails to activate?

A: If your device fails to activate, ensure that you have a stable internet connection and follow the activation steps carefully. If issues persist, contact Motorola Solutions support for assistance.

Q: Can I use the radio without activating it?

A: The radio needs to be activated to access software features and services. Failure to activate may limit the functionality of the device.

Q: How can I update the firmware of MOTOTRBOTM R7?

A: The firmware updates are automatically downloaded during the activation process. Ensure your device is connected to a reliable Wi-Fi network to receive the latest firmware updates.

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European Union (EU) and United Kingdom (UK) Waste of Electrical and Electronic Equipment (WEEE) Directive

- The European Union's WEEE directive and the UK's WEEE regulation require that products sold in EU
 countries and the UK must have the crossed-out wheelie bin label on the product (or the package in some
 cases).
- As defined by the WEEE directive, this crossed-out wheelie bin label means that customers and end-users in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.
- Customers or end-users in EU and UK countries should contact their local equipment supplier representative or service center for information about the waste collection system in their country.

Disclaimer

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

Activation Overview

- MOTOTRBO™ R7 is an advanced cloud-ready Land Mobile Radio (LMR) device.
- R7 requires a one-time activation to enable the software features and services purchased with the radio. The
 radio connects to RadioCentral Server which is a cloud-based application to obtain the specific software
 features and settings for a particular model and region (regional codeplug). The radio also downloads the latest
 firmware (if available) to ensure that your radio has the latest software features and security patches.
- After the one-time activation, your radio can be activated and configured with Radio Management (RM) or Customer Programming Software (CPS) 2.0 software.

Wi-Fi Access Point Setup

• Your radio connects to the secure cloud application through Wi-Fi. All radios come with Wi-Fi as standard or as software upgradable options and are capable of connecting to Wi-Fi for this initial download.

Table 1: Requirements for Preconfigured Wi-Fi Access Point

Item	Description
SSID	MOTOTRBO
Password	Radio Management
Security type	WPA2-PSK
Frequency	2.4 GHz and 5 GHz
Channel	1 to 11 (2.4 GHz)
Recommended download speed per radio	7 Mbps

Activation and Firmware Update

The section explains the typical package size and the duration of the activation process.

Table 2: Activation

Item	Description
Typical package size	0.5 MB
Activation process time	Two to three minutes

Table 3: Activation and Firmware Upgrade

Item	Description
Typical package size	30 MB
Activation process time	Eight to ten minutes

Best Practices

Motorola Solutions offers best practices for the security and operation of the Wi-Fi network for your radio. For more information, refer to the MOTOTRBO™ Best Practices for Device Activation, MN008921A01 at https://learning.motorolasolutions.com.

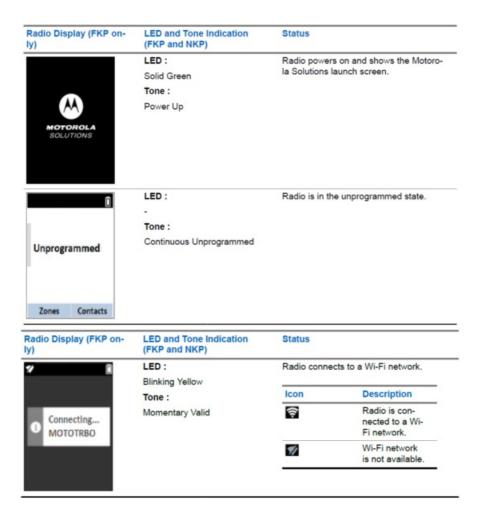
Initial Activation Process

The radio connects automatically to the preconfigured Wi-Fi access point and activates after the radio is turned on.

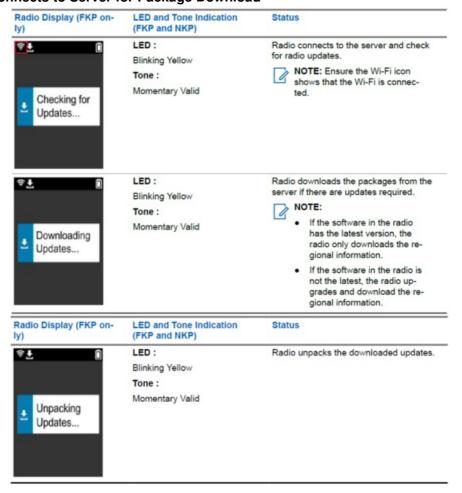
NOTE:

- For full keypad (FKP), you can refer to the Radio Display as well as the LED and Tone Indication columns in the following tables.
- For non-keypad (NKP), you can refer to the LED and Tone Indication column in the following tables.
- You can also check the Wi-Fi status announcement by pressing the 3-Dot Programmable Feature button.

Stage 1: Wi-Fi Connection

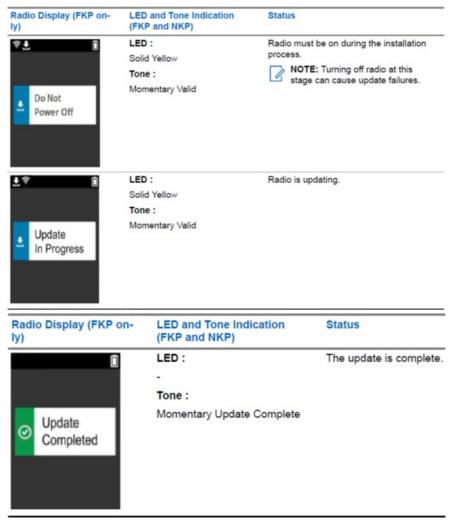


Stage 2: Radio Connects to Server for Package Download



IMPORTANT: Ensure a stable network connection at all times.

Stage 3: Installation



Troubleshooting

This section explains the basic troubleshooting process.

NOTE:

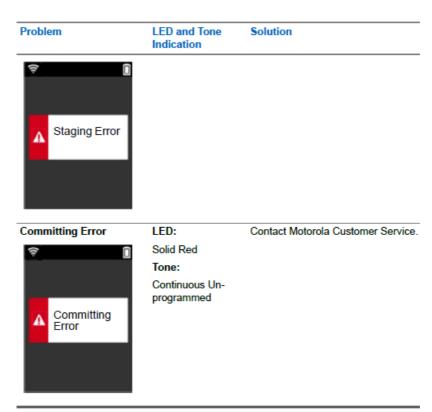
- You are recommended to start the troubleshooting steps with a full keypad radio.
- The maximum number of concurrent radios supported depends on the number of active clients that your access point supports but it is recommended to troubleshoot 20 radios at a time.
- In case of a power failure, the radio resumes at the previous stage.
- IMPORTANT: Ensure stable network connection at all times.

Problem LED and Tone Solution Indication Radio is unable to con-LED: Perform one of the following actions: nect to Wi-Fi Blinking Yellow 1. Verify that the Wi-Fi feature is enabled. NOTE: You are recommended to use a Wi-Fi modem or router. Tone: Icon Description Connecting... MOTOTRBO ङ्ग Your radio is connected to a Wi-Fi network. 1 Wi-Fi network is not available. 2. Check if the access point is configured correctly: Item Description SSID MOTOTRBO Password Radio Management Security Type WPA2-PSK 3. Ensure that the radio is powered on within the range of the access point. You can verify by connecting to the MOTOTRBO access point by using a smartphone. Proble LED and Tone Check the distance of the radio and the access point. Check the signal of the SSID by using a smartphone NOTE: Ensure that the sleep feature is turned off for iPhone access point. Enable maximum compatibility. Radio remains in Un-programmed channel LED: Perform one of the following actions: 1. If the Wi-Fi is connected, check if the access point has internet connection. Tone: 2. Connect to the access point by using a smartphone. Continuous Una. If the Wi-Fi is connected, check the Wi-Fi icon If the vivi-f is connected, cases are error to the Wi-Fi signal has more than three bars, connect to the SSID by using a smartphone. Go to https://www.motorolasolutions.com/ Unprogrammed If https://www.motorolasolutions.com/ is not accessible through your smartphone, contact your network administrator. This process requires an internet connection. Zones Contacts If the radio shows Connecting, and eventually shows Unprogrammed, perform the following actions: a. Check the access point and password. If the Wi-Fi is unavailable, use your smartphone to connect to the SSID using the password sta-ted. If the radio shows Checking for Updates, and eventually shows Unprogrammed, perform the following actions If the Wi-Fi is connected, test the internet con-nectivity by using a smartphone. If the internet connection is working properly, power cycle the radio to restart the provisioning process. 5. If you hear these tones: Continuous unprogrammed tone Momentarily valid tone wait for one to two minutes for the radio to find the Update Job and perform one of the following

. If a job is found, the radio proceeds to the provi-

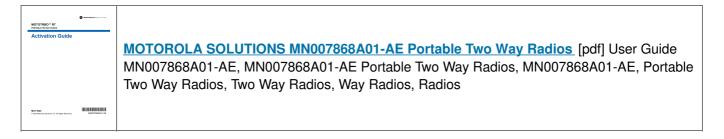
sioning process





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Documents / Resources



References

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