





MOTOROLA SOLUTIONS MN007868A01 Portable Two Way Radios User Guide

Home » Motorola Solutions » MOTOROLA SOLUTIONS MN007868A01 Portable Two Way Radios User Guide 🖫



Contents

- 1 MOTOROLA SOLUTIONS MN007868A01 Portable Two Way **Radios**
- **2 Product Information**
- **3 Product Usage Instructions**
- 4 Legal and Support
- **5 Activation Overview**
- 5.1 Wi-Fi Access Point Setup
- 5.2 Activation and Firmware Update
- **6 Initial Activation Process**
- 7 Troubleshooting
- 8 Documents / Resources
 - 8.1 References
- 9 Related Posts



MOTOROLA SOLUTIONS MN007868A01 Portable Two Way Radios



Product Information

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

Product Specifications

• Product Name: MOTOTRBOTM R7 Portable Two-Way Radios

• Activation Guide: May 2024

• Model Number: MN007868A01-AE

Product Usage Instructions

Chapter 1: Activation Overview

MOTOTRBOTM R7 is designed to connect to the RadioCentral Server for activation. The activation process involves enabling software features and services purchased with the radio. Additionally, the radio downloads the latest firmware during activation.

Chapter 2: Initial Activation Process

Follow these steps for the initial activation process:

- 1. Set up Wi-Fi access point for connectivity.
- 2. Initiate the activation process and firmware update.
 - Refer to best practices for a smooth activation process.

Chapter 3: Troubleshooting

If you encounter any issues during activation or usage, refer to the troubleshooting section in the user manual for assistance.

Frequently Asked Questions (FAQ)

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

A: If your radio fails to activate, ensure that the Wi-Fi access point is set up correctly and try initiating the activation process again. If issues persist, refer to the troubleshooting section in the user manual or contact Motorola Solutions support for assistance.

• Q: Can I activate and configure the radio using third-party software?

A: After the one-time activation, you can activate and configure the radio using Radio Management (RM) or Customer Programming Software (CPS) 2.0 provided by Motorola Solutions. The use of third-party software may not be supported and could result in compatibility issues.

Legal and Support

Intellectual Property and Regulatory Notices

Copyrights

The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions. No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Trademarks

MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC, and are used under license. All other trademarks are the property of their respective owners.

License Rights

The purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patents, or patent applications of Motorola Solutions, except for the normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

• Open Source Content

This product may contain Open Source software used under license. Refer to the product installation media for full Open Source Legal Notices and Attribution content.

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 endusers in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.

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

Disclaimer

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

© 2024 Motorola Solutions, Inc. All Rights Reserved.

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 the RadioCentral Server which is a cloud-based application to obtain the specific software
 features and settings for a particular model and region (regional code plug). 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 a software upgradable option 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)
- The recommended download speed per radio is 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.

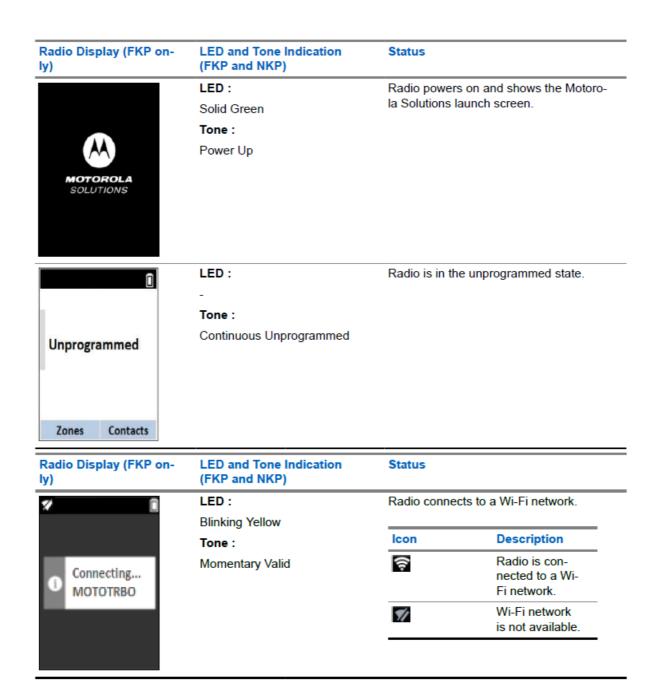
Initial Activation Process

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

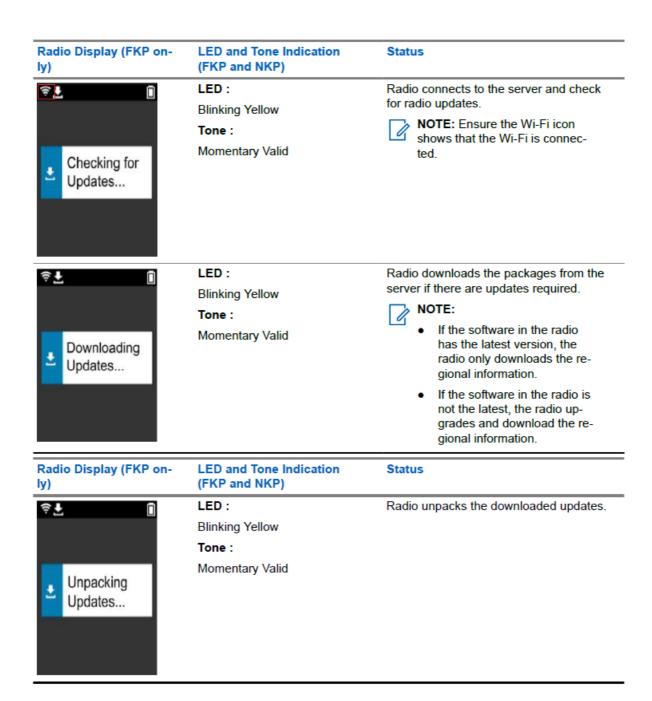
NOTE:

- For full keypad (FKP), you can refer to the Radio Display as well as the LED and Tone Indication column 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

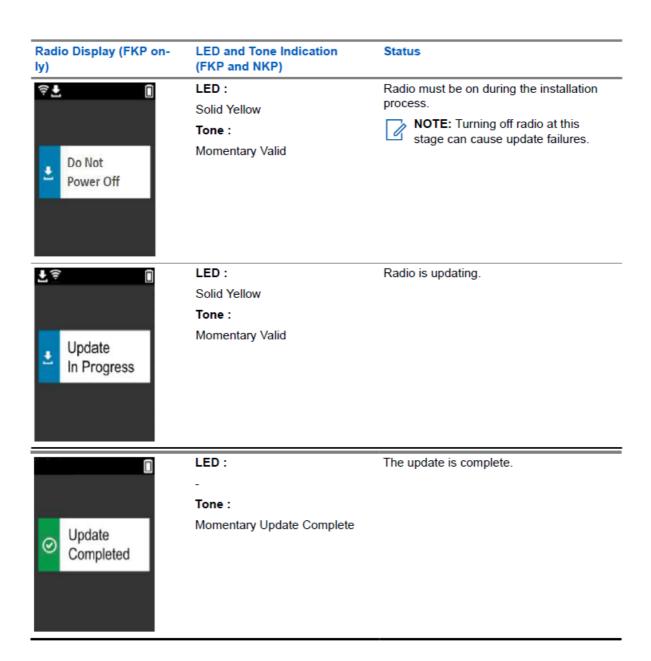


Stage 2: Radio Connects to Server for Package Download



- NOTE: Your radio restarts after the server update process is complete.
- 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 a stable network connection at all times.

Problem	LED and Tone Indication	Solution		
Radio is unable to connect to Wi-Fi Connecting MOTOTRBO	LED:	Perform one of the following actions:		
	Blinking Yellow	1. Verify that the Wi-Fi feature is enabled.		
	Tone:	NOTE: You are recome Fi modem or router.		re recommended to use a Wi- router.
			Icon	Description
			<u>হ</u>	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 rar of the access point. You can verify by connecting to the MOTOTRBO access point by using a smart phone. 	
		4.	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 Unprogrammed channel



LED:

-

Tone:

Continuous Unprogrammed Perform one of the following actions:

- If the Wi-Fi is connected, check if the access point has internet connection.
- 2. Connect to the access point by using a smartphone.
 - a. If the Wi-Fi is connected, check the Wi-Fi icon in an unprogrammed channel. If the Wi-Fi signal has more than three bars, connect to the SSID by using a smartphone. Go to https://www.motorolasolutions.com/
 - b. If https://www.motorolasolutions.com/ is not accessible through your smartphone, contact your network administrator. This process requires an internet connection.
- 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 stated.
- 4. If the radio shows Checking for Updates, and eventually shows Unprogrammed, perform the following actions:
 - If the Wi-Fi is connected, test the internet connectivity by using a smartphone.
 - b. 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 actions:

 If a job is found, the radio proceeds to the provisioning process.

https://www.motorolasolutions.com/

LED and Tone Indication

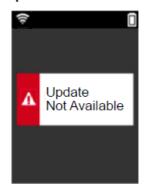
Solution

· If no job is found, power cycle the radio.



NOTE: If the issues persist, contact Motorola Customer Service.

Update Not Available



LED:

Blinking Red

Tone:

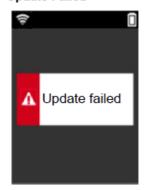
Continuous Unprogrammed Perform the following actions:

- Verify that the Wi-Fi is connected by pressing the 3-Dot Programmable Feature button.
- 2. Check the router firewall configuration.
- To retry the activation process, power cycle the radio



NOTE: If the Wi-Fi is connected, contact Motorola Customer Service.

Update Failed



LED:

Blinking Red

Tone:

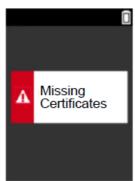
Continuous Unprogrammed Perform the following actions:

- 1. Verify that the Wi-Fi is connected by pressing the 3-Dot Programmable Feature button.
- If there is a low battery alert tone, charge the radio and continue until the tone stops.
- 3. Power cycle the radio and redo the whole process.



NOTE: If the issues persist, contact Motorola Customer Service.

Missing Certificates



LED:

Solid Red

Tone:

Continuous Unprogrammed Contact Motorola Customer Service.



NOTE:

If the radio connects to the Wi-Fi before receiving the error message, the radio shows the Wi-Fi icon.

If you receive the error message before connecting to the Wi-Fi, the radio does not show the Wi-Fi icon.

Device Not Found in RC

LED:

Solid Red

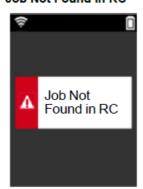
Tone:

Contact Motorola Customer Service.



Continuous Unprogrammed

Job Not Found in RC



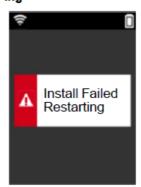
LED:

Solid Red
Tone:

Contact Motorola Customer Service.

Continuous Unprogrammed

Install Failed Restarting



LED:

lid

Wait for the radio to power cycle.

Flashing Red Tone:

Momentary Inva-

Staging Error

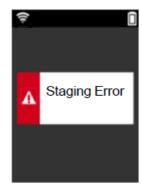
LED:

Contact Motorola Customer Service.

Solid Red

Tone:

Continuous Unprogrammed



Committing Error

Committing Error

LED:

Solid Red Tone: Contact Motorola Customer Service.

Continuous Unprogrammed

Documents / Resources



References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.