



3M™ Scott™ Vision C5 with Radio Direct Interface Land Mobile Radio Configuration Instructions

For Motorola Solutions APX™ Family Customer Programming Software (CPS)



This guide includes information to assist in the configuration of internal settings of Motorola Solutions Inc. (MSI) APX Series of Land Mobile Radios (LMRs) for use with the 3M™ Scott™ Vision C5 with Radio Direct Interface (C5 RDI) Facepiece.

Programming of any MSI LMR needs to be performed by MSI Trained Personnel and in accordance with the Authority Having Jurisdiction (AHJ) requirements.

The information contained in this document was obtained from 3M Scott Fire & Safety and MSI product documents including user instructions, technical manuals, release notes and software help files.

Settings marked with an asterisk (*) are required for proper operation of the facepiece, all others are recommendations and should only be implemented after consultation and approval by your LMR Network AHJ.

Codeplug Configuration

Radio Information

- General
 - Firmware Version:
 - R30.04.00 (R04.08.00 for APXNext/N) – Minimum required*
 - R09.03.00 – ViQi Voice Control for APX Next
 - R37.01.00 (R37.03.00 for APXNext/N) – Voice Amp Feature Release

Radio Wide

- Bluetooth®
 - Bluetooth Enable: Checked*
 - Bluetooth Tones: Checked
 - Radio Speaker Microphone (RSM) Bluetooth LED: Checked
 - Standard Pairing: Checked*
 - Secure MPP Pairing: Checked*
 - Bluetooth Re-Pair Timer: Infinite*
 - Bluetooth Drop Timer: 5 min
 - Bluetooth Replace Pairing Info: Checked*
 - Bluetooth Device Search Duration (sec): 30
 - Bluetooth Radio Visibility Duration (min): 2
 - Legacy Bluetooth PIN Pairing: Unchecked*
 - Bluetooth Audio Backwards Compatibility: Unchecked*

Radio Ergonomics Configuration

- Radio Ergonomics Wide
 - Advanced
 - Active Mic for Radio PTT: Wireless Mic*
 - Active Mic for RSM PTT: Wireless Mic*
 - Active Mic for Bluetooth PTT: Wireless Mic Only*
 - Active Mic for Indirect PTT: Wireless Mic*
 - Bluetooth Receive Audio: Bluetooth Speaker¹
 - Voice Amplifier Speaker: Wired RSM Speaker

¹ For C5 RDI with Bone Conduction Headphone (BCH) this is the preferred setting. If you have not purchased the optional BCH, then you need to set this to RSM/Internal Speaker.

Controls

- Buttons and Accessory Buttons
 - **Bluetooth On/Off**² – Allows for the LMR Bluetooth radio to be enabled or disabled with the single press of a button.
 - **Bluetooth Inquiry On/Off**³ – This button-press allows you to activate or deactivate Bluetooth Inquiry mode. When activated, the radio sends out requests in search of all Bluetooth devices within its range.
 - **Bluetooth Inquiry Audio Reroute** – This button-press allows you to cycle active speaker audio between a portable radio's internal speaker or external (RSM/DRSM) speaker, and a Bluetooth accessory's wireless speakers. This **will not** affect the Bluetooth accessories microphone; it will still remain the active microphone unless the Bluetooth accessory is disconnected.
 - **Voice Amplifier** – This button-press allows you to amplify your voice from a Bluetooth SCBA mask through a supported Wired RSM or the internal radio speaker.
- Menu Items
 - **Bluetooth (BT)*** – Allow access to the Bluetooth status, information, and options of the LMR when Bluetooth is enabled on the radio.
 - **Radio Profiles (PRFL)** – Allows access to stored radio noise filter profiles programmed in the LMR.
 - **Voice Amplifier (Vamp)** – Allows users to turn on/off the voice amplifier from a menu button on the front display of the radio.
- Radio Profiles

We recommend creating a radio profile specific for the Vision C5 RDI or setting the “Default” profile with the following settings so that Motorola’s noise filtering protocol does not interfere with the one we have in our facepiece.

- [Profile Name]
 - Audio Settings
 - Microphone/TX Settings
 - Noise Reduction
 - Radio: Normal*
 - Accessory: Normal*
 - Intelligent Accessory: Normal*
 - Gain/Sensitivity
 - Radio: Normal*
 - Accessory & Intelligent Accessory: Normal*
 - Audio Equalization
 - Radio: Normal*
 - Accessory & Intelligent Accessory: Normal*
 - Speaker/RX Settings
 - Volume Control
 - Voice Amplifier Volume: 175 – 230*
 - Audio Equalization: Normal*

² One button has to be programmed to this function when using any single display only APX LRM*

³ One button has to be programmed to this function when using any single display only APX LRM*



Personal Safety Division

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3M PSD products are occupational use only.

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