MOTOROLA SOLUTIONS

APX™ Portable Subscriber

Two-Way Radio

APX N70 Release Notes SR2024.2

MN009853A07

Appendix A

APX N70 Release Notes

Subscriber APX N70 R04.02.00

Updated: September 2024

This Feature Release is intended for customers requiring the latest release feature content.

APX N70 Platforms: APX N70

New APX Firmware Version: R04.02.00

Previous APX Firmware Version: R03.06.00

A.1
New Features

Abstract: APX Zone Cloning Tool Support

System Platforms Affected: APX N70

Special Configurations: Radio needs to have Q52 or Q53 enabled.

Description: The firmware will add support for the APX Zone Cloning Tool - a standalone zone cloning tool that provides the ability for the wildfire and disaster response community to build a zone template in a simple PC application and clone to radios. This significantly reduces opportunities for errors and speeds up the radio zone cloning process of large quantities of radios with high accuracy.

Abstract: APX Initial Trunking Affiliation Tone

System Platforms Affected: All radios

Special Configurations: N/A

Description: P25 Trunking radios play a series of three quick beeps upon initial successful affiliation upon power up or channel change (LMR or SmartConnect Site).

Abstract: Range Extension Enhancements for DVR-LX/VRX1000- Voice solution

System Platforms Affected:: All APX portables which support PSU operation, APX8500, APX6500 BN

Special Configurations: SmartConnect QA07682/GA01630 (mobiles), DVRS MSU GA00631 (mobiles),DVRS PSU QA00631, SmartConnect QA09276AA/HKVN4963A (DVR-LX), SmartConnect QA09568AA/HKVN4979A (VRX1000).

Description: This feature enables the customers to use SmartConnect and DVRS without any loss in trunked features for their PSUs. Trunked features will operate the same whether the MSU communicates over LMR or broadband and will now use the portable radio ID instead of the MSU ID.

Abstract: WM800 XV Wireless RSM with ASTRO radios

System Platforms Affected: APX N70

Special Configurations: Requires QA00583: Bluetooth

Description: Support for WM800 wireless RSM.

Hardware availability Q4'2024.

Abstract: ViQi VC from BT SCBA Masks and BT ViQi VC Config (including WM800)

System Platforms Affected: APX N70

Special Configurations: ViQi VC from BT SCBA Masks and BT ViQi VC Config (including WM800)

Description: This feature shall allow the mic from the BT SCBA Mask to be utilized for ViQi Voice Control or Virtual Partner. This feature shall also allow a user to configure both the Radio and the RSM ViQi VC/ VP active microphone to be remapped to one of three devices (RSM, Radio, or Wireless). This is done via the radios codeplug, with certain exceptions: target remap device set in codeplug must be present, and must have wideband microphone.

Abstract: Programmable Link Failure Holdoff Timer- SmartConnect

System Platforms Affected: All SmartConnect Capable radios

Special Configurations: SmartConnect Subscription, Infrastructure

Description: Add a configuration for the "SmartConnect Fail Hold timer" in the SmartConnect Gateway configuration and provisioning tool, instead of the hard coded 60 second major link failure time; this is configured by LMR System ID.

Abstract: SmartIncident with PremierOne support

System Platforms Affected: APX N70

Special Configurations: CAD on APX NEXT/N70, SmartLocate, SmartMapping

Subscription to support ViQi Virtual Partner.

Description: CAD-client Application Service running on APX NEXT devices, integrated with the App Services, CommandCentral and PremierOne CAD.

Abstract: Support Application Session Lock

System Platforms Affected: APX N70

Special Configurations: Require SmartMapping, SmartIncident, SmartMessaging and/or ViQi VP Common Queries

Description: When the device becomes idle and reaches a timeout, the device will require the field user to type a PIN to unlock SmartMapping, SmartIncident, SmartMessaging and ViQi VP Common Queries, which may carry sensitive data.

Abstract: MultiFactor Authentication PIN

System Platforms Affected: APX N70

Special Configurations: Application services like SmartMessaging, SmartMapping, ViQi VP, SmartIncident

Description: Allow users to enroll their radio to use MFA and login by entering a pin on that radio which is tied to their existing CC Admin account.

Provides enhanced User authentication experience to login through Shift manager, that is faster and more secure by using an authenticator which is validated at the server (Public Key Cryptography).

Abstract: Parity feature work for CPS

System Platforms Affected: CPS with N70 radios

Special Configurations: The customers currently using new web-based RadioCentral

Description: The new web-based RadioCentral customers can customize the power-up image and radio inhibit image for the N70 radios. The way is to 1st enable the settings in the CPS '"Radio Wide" for the radios, and then use RCP to assign the specific image to the corresponding devices. Please note that the customers who are not using the new RadioCentral still can see these fields in the CPS view, but can not utilize this feature since there's no new RadioCentral to assign the specific image.

The new web-based RadioCentral customers can utilize the TKP (Touchless Key Provisioning) feature for the N70 radios. The way is to enable the settings in the "OTAR Profile" in CPS. Please note that the customers who are not using the new RadioCentral still can see these TKP fields in the CPS view, but can not utilize this feature since there's no new RadioCentral to support the TKP feature.

A.2
Updates

Abstract: SmartConnect Wifi Issue

System Platforms Affected: N/A

Special Configurations: SmartConnect On WiFi

Description: Prior to this release, customers may experience Out-of-Range (OOR) on the APX NEXT devices while roaming between WiFi access points on the same network.

Abstract: MACE Version Update

System Platforms Affected: N/A

Special Configurations: N/A

Description: The new MACE software version included in SR2024.2 release has been updated to meet the production code signing requirements as specified in the NIST Digital Signature Standard. This new MACE software version has NO functional changes.

Abstract: "IPC Error" Message display

System Platforms Affected: N/A

Special Configurations: N/A

Description: In rare cases at power up the front display will briefly turn on, but fails to generate the display; the top display shows "IPC Error," which may be accompanied by a recurring alert tone.

Abstract: Radio may reset while operating in a fringe condition

System Platforms Affected: P25 Trunking

Special Configurations: TDMA enabled channels

Description: While operating in a fringe coverage condition, users may experience a brief radio reset, which may be accompanied by tones that resemble a car horn bonk.

Abstract: Unable to clear the emergency talkgroup status from a Harris dispatch console

System Platforms Affected: Only Harris systems

Special Configurations: Emergency Exit Control set to Subscriber Only, Supervisor, or Both Subscriber and Console

Description: Starting with SR2023.3 and prior to this release, users cannot clear the emergency status on their talkgroup following a long press of the orange emergency button.

Abstract: Intermittent Delayed Talk Permit Tone after initiating a call request

System Platforms Affected: P25 Trunking

Special Configurations: TDMA enabled channels

Description: Prior to this release, the radio may exhibit a delayed talk permit tone after initiating a call request exhibits. The user may experience a 3-5 second delay before hearing the grant tone.

Abstract: Radios may intermittently stop transmitting mid-conversation

System Platforms Affected: P25 Trunking

Special Configurations: TDMA enabled channels

Description: Prior to this release, radios may intermittently stop transmitting mid-conversation while the PTT is still being pressed. Transmissions may stop prior to Time Out Timer expiration.