**MOTOROLA** SOLUTIONS

# APX ™ Portable Subscriber

**Two-Way Radio**

# APX N70 Release Notes SR2023.3

**Appendix A**

# APX N70 Release Notes

## Subscriber APX N70 R02.02.00

Updated: December 2023

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

**APX N70 Platforms: APX N70**

**New APX Firmware Version: R02.02.00**

**Previous APX Firmware Version: R01.62.00**

A.1

# Important Notes

**N/A**

A.2

# New/Replacement Products

**N/A**

A.3

# New Features

### Abstract: Sorted Long Hunt/Intermediate Hunt List

**System Platforms Affected:** APX N70

**Special Configurations:** N/A

**Description:** Provides a list to enable a dynamically managed list of frequencies while searching for a valid control channel.

### Abstract: Remote Activation of Emergency Enhancements

**System Platforms Affected:** APX N70

**Special Configurations:** Emergency Profile Configuration needs to select the Encode and Decode option. The feature is supported on P25 Conventional and P25 Trunking. Not available on Conventional MDC, Conventional QCII, Trunking Type I or II.

**Description:** Provide an enhanced distinctable icon for Remote Emergency.

## Abstract: Conventional Radio Inhibit Revert

**System Platforms Affected:** APX N70

**Special Configurations:** Trunking support on Codeplug.

**Description:** Provide a power up mechanism for the administrators to force the radio to a mode where it could be disabled, when operating on a conventional system.

## Abstract: Parity – Multisystem OTAR

**System Platforms Affected:** APX N70

**Special Configurations:** Only supported on HW Encryption.

Also Require: GA01620AA/QA07680AA – ADD: MULTI SYSTEM OTAR and H868/W968 – ADD: OTAR and Multikey.

**Description:** Adding the MS-OTAR feature support for APX N70 radios using CPS/RM only.

> **NOTE:** This feature is not supported on RCP or RCMT. Once MS-OTAR is enabled on an APX NEXT device via CPS, that device can not be actively managed by RCP or RCMT. Users must disable MS-OTAR on device before using RCP and RCMT configuration tools.

## Abstract: Support Codeplug OTAP for APX N70

**System Platforms Affected:** APX N70

**Special Configurations:** Require the option G996.

**Description:** This feature provides a parity support for OTAP on the APX N family.

> **NOTE:** Not to use the TTS feature when using OTAP.

## Abstract: CommandCentral Auto-Login

**System Platforms Affected:** APX N70

**Special Configurations:** CC Admin configuration & Codeplug setup.

**Description:** When CommandCentral Auto-Login is properly configured, the radio powers ON & uses a MSI signed certificate to authenticate the user automatically. CommandCentral Auto-Login can be enabled for APX NEXT radios that require authentication to App Services like SmartMapping & SmartMessaging.

CommandCentral Auto-Login cannot be used with ViQi Virtual Partner or any service that accesses CJIS data. CommandCentral Admin (CC Admin) is the portal where CommandCentral Auto-Login is enabled and configured. It allows configuring new single devices, new multiple devices through an imported CSV file, & existing radios through an export/import workflow. CommandCentral Auto-Login requires the codeplug to be updated, too.

## Abstract: SmartMapping – Zoom Out to Turn Units into Small Dots

**System Platforms Affected:** APX N70

**Special Configurations:** Requires SmartMapping to be enabled on the device and the SmartMapping clustering feature to be turned off.

**Description:** In map view, as the user zooms out, the units on the map turn into smaller dots and the unit ID label disappears, for a cleaner view.

## Abstract: Parity – Dynamic Zone Programming

**System Platforms Affected:** APX N70

**Special Configurations:** N/A

**Description:** Allows channel to add, replace, and delete in the channel display slot from selection of zones marked as Dynamic in codeplug configuration.

## Abstract: Parity – Intelligent Priority Scan

**System Platforms Affected:** APX N70

**Special Configurations:** N/A

**Description:** Ability to add or delete conventional channels or trunking talkgroups from multiple systems into priority scan list.

## Abstract: Parity – DVR NAC Linking and Persistent Talkaround

**System Platforms Affected:** APX N70

**Special Configurations:** Require DVRS PSU.

**Description:** Allow NAC Linking, Persistent Talkaround, and FDMA/TDMA Talkaround configuration.

## Abstract: Parity – PSU Conventional Scan (DVRS)

**System Platforms Affected:** APX N70

**Special Configurations:** Required DVRS options.

QA00631: DVRS PSU Activation must be enabled.

HA00677: DVRS PSU Conventional Scan must be enabled.

**Description:** Support PSU Conventional Scan through DVRS.

## Abstract: Parity – Front Panel Programming (FPP)

**System Platforms Affected:** APX NEXT and APX N70

**Special Configurations:** Required FPP options.

Q52/GA00243 – FED FPP (No dongle required) (FED FPP And Zone Cloning).

Q53/G53 – Non-FED FPP (password required) (Non-FED FPP And Zone Cloning).

**Description:** Allows user to configure the radio codeplug via FPP application.

## Abstract: Parity – Radio to Radio and Zone to Zone Cloning

**System Platforms Affected:** APX N70

**Special Configurations:** Required FPP options.

Q52/GA00243 - FED FPP (No dongle required) (FED FPP And Zone Cloning).

Q53/G53 - Non-FED FPP (password required) (Non-FED FPP And Zone Cloning).

**Description:** Ability for APX Portable Radios to copy the zone and channel information from a cloneable zone in one radio to a cloneable zone in another radio.

## Abstract: Parity – Multi-PL

**System Platforms Affected:** APX N70

**Special Configurations:** N/A

**Description:** The MPL feature allows the user to modify the current mode's PL/DPL codes by selecting from a predefined list of codes. This can be used to eliminate the need to program multiple channels of the same frequency with different PL/DPL codes (for the purpose of accessing different communication sub-groups, repeaters, and so forth).

## Abstract: Parity – Secure Data through DVRS

**System Platforms Affected:** APX NEXT and N70

**Special Configurations:** Required Secure and DVRS options.

QA00631/QA00631 - DVRS PSU Activation H-option

Q498/G298 - OTAR And Multikey H-option

**Description:** Encrypt PSU Data while MSU is on a P25 trunked system.

## Abstract: Cloning and FPP Enhancements for Wildland Fire (NIFC)

**System Platforms Affected:** APX N70

**Special Configurations:** Required FPP options.

<Q52> - Fed-FPP / Zone Cloning H-option or

<Q53> - NonFed-FPP / Zone Cloning H-option.

**Description:**

1.  Cloning enhancements: Clone any APX Portable to any other APX Portable (including APX NEXT and APX N70), Scan list cloning, separate MPL configuration list for cloning, allows Direct Frequency for non cloneable zones.

2.  Other enhancements: Permanent MPL Alias display, auto create MPL menu..

## Abstract: Additional Voice Control Commands for SR2023.3

**System Platforms Affected:** APX N70

**Special Configurations:** Enabled Voice Control.

**Description:** Additional Voice Commands for Pair Bluetooth and Change to Preset.

## Abstract: On-Device Unit Management

**System Platforms Affected:** APX N70

**Special Configurations:** This feature can be enabled in CC Admin.

APX NEXT or APX N70 Shift Manager. SmartLocate to report locations, SmartMapping and CC Aware to visualize locations, SmartMessaging to send or receive messages.

**Description:** The Shift Manager is enabled to allow field users to update their own Unit ID and Unit On/Off duty status from the device.

**Abstract: ViQi Virtual Partner – Unit Management, Duty Status and Where am I Capabilities**

**System Platforms Affected:** APX N70

**Special Configurations:** Virtual Partner Enabled. ViQi Virtual Partner Subscription Service and enablement.

**Description:** Adding the capability to Virtual Partner to be able to change and query the unit ID and duty status from the radio. Also, the officer can request their location and the location of another officer using their unit ID.

## A.4
# Updates

### Abstract: APX N70 Radio Nationwide Alert Took Priority Over RX Audio

**System Platforms Affected:** N/A

**Special Configurations:** N/A

**Description:** Nationwide emergency test message was received on firstnet and VZW radios (they are not supposed to).

### Abstract: APX Radios May Not Connect to SmartConnect for an Extended Time Period

**System Platforms Affected:** SmartConnect

**Special Configurations:** Multi-System Scan Enabled and a Maximum number of Control Channel Frequencies in Codeplug.

**Description:** Prior to this release, APX radios may not connect to SmartConnect for an extended timer period when Multi-System Scan is active.

### Abstract: APX Mobile Radios May Be Inoperative After Loading Authentication Keys

**System Platforms Affected:** N/A

**Special Configurations:** N/A

**Description:** Prior to this release, APX Mobile radios may become inoperative upon disconnecting the keyloading cable after loading authentication keys. A power cycle will restore normal operation.

### Abstract: APX Radios Rarely Illuminate the Busy LED During Trunking Operation

**System Platforms Affected:** N/A

**Special Configurations:** Trunking Busy LED and Scan must be enabled.

**Description:** Prior to this release, APX radios rarely illuminate the Busy LED during trunking operation while actively scanning.

### Abstract: APX Radios Transmit in a Talkaround Mode when Configured for TPS

**System Platforms Affected:** Conventional Only.

**Special Configurations:** Tactical Public Safety enabled.

**Description:** Before this release, APX radios may transmit with the incorrect Analog CSQ/PL/DPL settings while operating in a Talkaround configuration with TPS enabled.

## Abstract: APX Radios May Not Successfully Complete OTAR Transactions

**System Platforms Affected:** N/A

**Special Configurations:** OTAR and Conventional Scan.

**Description:** Before this release, APX radios may not successfully complete OTAR transactions while conventional scan is active and the Designated Data Member is set to the Selected channel.

## Abstract: APX Radios May Include the Talk Permit Tone as Part of the Receive Audio

**System Platforms Affected:** N/A

**Special Configurations:** Instant Recall.

**Description:** Starting with R31.00.00, APX radios configured with Instant Recall may include the Talk Permit Tone as part of the receive audio.

## Abstract: APX Radios Transmit in a Talkaround Mode when Configured for TPS

**System Platforms Affected:** Conventional Only.

**Special Configurations:** Tactical Public Safety enabled.

**Description:** Before this release, APX radios may transmit with the incorrect Analog CSQ/PL/DPL settings while operating in a Talkaround configuration with TPS enabled.

## Abstract: APX N70 Radios Prompt for Restart Notification due to a Server Update

**System Platforms Affected:** N/A

**Special Configurations:** N/A

**Description:** Devices receive a notification and display it for a device restart prompt. The device will not restart until the user selects the "Restart now" button in the notification prompt. The notification is persistent only for the 1st instance of receiving the update. Any restart type will clear the notification.

The radios that have received a server update notification "Install server updates, restart", and have a firmware Write Job pending. Accepting "install server updates, restart" may interrupt the firmware installation process and they end up in a continuous reset condition.

**MTN-0096A-23**

> **NOTE:** Please see the `APX_CPS_Readme file` and the `CPS HELP` for additional information.