

APX™ Portable Subscriber

Two-Way Radio

APX N70 Release Notes

SR2024.1

JUNE 2024

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Appendix A

APX N70 Release Notes

Subscriber APX N70 R03.06.00

Updated: June 2024

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

APX N70 Platforms: APX N70

New APX Firmware Version: R03.06.00

Previous APX Firmware Version: R02.02.00

A.1

Important Notes

N/A

A.2

New/Replacement Products

Abstract: APX N70 UHF R1/R2 Model

System Platforms Affected: All

Special Configurations: N/A

Description: The APX N70 is a new portable platform initiative designed to bring the APX portable high tier single band Smart devices into the next generation. The APX N70 UHF R1/R2 is a Band Split Variant in the form factors of APX N70 7/800 MHz model that was launched in late 2022. The entire UHF range (380–520 MHz) frequencies will be offered in a single device. The device will be certified to Div I HazLoc standard (TIA 4950) and will be launched at the same time.

A.3

New Features

Abstract: Digital Tone Signaling Encode/Decode Balancing

System Platforms Affected: APX N70

Special Configurations: Requires QA09000- ADD: DIGITAL TONE SIGNALING

Description: Extends the legacy feature (P25 ASTRO® Alerting/P25 Tone Signaling) by allowing all 100 tones in the tone signaling list to be configured for decode.

 **NOTE:** There will be no change to the OMAP radios and they will continue to be able to decode only the first ten tones in the tone signaling list.

Abstract: Voice Announcement for ChannelFallback

System Platforms Affected: APX N70 radios.

Special Configurations: Customers who use a radio as both a DVRS PSU and a trunking subscriber.

Requires QA09028 – ViQi Voice Control or QA08715/QA08715 – Basic Voice Control (for Text-to-Speech only).

Description: Enhancement of ChannelFallback functionality to include Voice Announcements.

Separate voice announcement audio may be selected to play for toggling on and off of the feature.

To use Text-to-Speech voice announcements instead of audio files, the Voice Control option must be available on APX N70 radios.

Reference ChannelFallback: Seamless portable radio user operation and automatic switching from a DVRS mode to a Trunking or SmartConnect mode (LTE or WiFi) when users leave the coverage area of the DVRS.

Abstract: MS-OTAR-ADP-Keyloading

System Platforms Affected: APX N70

Special Configurations: OTAR and MSOTAR for Hardware ADP Key Loading from Secure Profile (Q498/G298 and QA07680/GA01620).

OTAR for Hardware ADP Key Loading from Secure Wide (Q498/G298).

OTAR and ADP for Software ADP Key Loading from Secure Wide (Q498/G298 and Q667/G193).

New PCI MACE ADP Key Loading Capable is present.

Description: This feature allows Hardware and Software ADP Keyloading from Secure Wide Encryption Key List and Hardware ADP Key Loading from Secure Profile Encryption Key List.

Abstract: LTE Configurability

System Platforms Affected: APX N70

Special Configurations: Only applicable for devices purchased with QA08887: Enabled LTE

Description: This feature allows you to turn LTE On or Off using configuration tools.

Abstract: Inclusive Language Refresh – Man Down Text Changing to Fall Alert

System Platforms Affected: All Radios

Special Configurations: N/A

Description: In support of Motorola Solutions Inc. inclusivity, “Man Down” text is being removed from the radio user interface, programming software, and replaced with “Fall Alert” text.

Abstract: Decode Key ID Multikey – Parity

System Platforms Affected: Adding support on APX N70

Special Configurations: Requires H869: ENH: MULTIKEY

Description: This parity feature is to decode the secure key ID over the trunking system when it is received in the radio.

Abstract: Use VP for Location Query and Unit Management when Auto-Login is Enabled (US Only)**System Platforms Affected:** APX N70 (US only)**Special Configurations:** QA09028: VIQI VC RADIO OPERATION.

Subscription to support ViQi Virtual Partner.

Description: Enabling CommandCentral Auto-Login (DBA device certificate-based login) requires the CPS flag to disable the ability to enable ViQi Virtual Partner as DBA is not considered CJIS compliant. Now the ViQi VP has introduced independently enabled functions such as unit management, status query, and location query that do not require CJIS compliance. Customers can now use the new ViQi VP query features with CommandCentral Auto-Login.**Abstract: Support WPA3-SAE****System Platforms Affected:** APX N70**Special Configurations:** Only Wi-Fi Connections**Description:** Supports new configuration for WPA3-Personal or WPA3-SAE. When configured for WPA3-SAE, fallback to WPA2 is disabled. When configured for WPA2, automatic promotion to WPA3-SAE occurs if AP is supporting WPA3.**Abstract: RSSI and dBm on Top Display****System Platforms Affected:** APX NEXT**Special Configurations:** This feature is dependent upon the **Conventional RSSI Display** setting being enabled.**Description:** This feature displays the RSSI/dBm value (signal strength detected by the radio) on the top display.**A.4**

Updates

Abstract: Smart Mapping Connection Does Not Work Properly when a User is Connected to Wi-Fi with No Internet.**System Platforms Affected:** APX NEXT and APX N70.**Special Configurations:** The radio is connected to Wi-Fi without internet.**Description:** If the radio is connected to Wi-Fi without internet, it might not be able to auto switch to LTE for Command Central or Smart Mapping update that might result in degradation of the smart features.

Abstract: In Some Situations, APX N70 Radios May Display an Intermittent Fail 001 Error Message Accompanied by an Audible Tone.

System Platforms Affected: N/A

Special Configurations: N/A

Description: Before this release, APX N70 radios may display Fail 001 error message with an audible tone that alerts the user when the radio has failed to lock on the requested RF channel. Typically this will only be seen as a single momentary alert that is automatically cleared as the radio successfully locks following an immediate retry. In some rare situations, the failure may persist, requiring a channel change or power cycle to resolve.

<https://learning.motorolasolutions.com/motorola-technical-notice-mtn/88512enus>

Abstract: APX N70 Radios Operating on a Type II Trunking System May Not Provide an Emergency Hot Mic Tx Duration.

System Platforms Affected: Legacy Type II Trunking Analog Systems.



NOTE: SmartX Type II Systems are not impacted.

Special Configurations: Emergency at Invalid Sites.

Description: Starting with R32.03.00, APX radios operating on a Type II Trunking System will not transmit for the configured Emergency Hot Mix Tx Duration after an Emergency event is triggered by the radio.

Abstract: APX N70 Radios Operating on a Trunking System May Not Provide an Emergency Hot Mic Tx Duration.

System Platforms Affected: APCO Trunking Systems.

Special Configurations: Emergency System Revert.

Description: Before this release and starting with R02.02.00, APX N70 radios operating on an APCO Trunking system will not transmit for the configured Emergency Hot Mic Tx Duration when an emergency event is triggered by the radio.

Abstract: APX N70 Radios Being Upgraded to the 2024.1 Release through an OTA Upgrade Rarely Encounter a “Network Error”.

System Platforms Affected: N/A

Special Configurations: OTA Upgrades.

Description: Before this release and starting with R02.02.00, APX N70 radios being upgraded to the 2024.1 release through an OTA upgrade may encounter a “Network Error” upon the first power up following the upgrade. As a result of this issue, the top display will show Network Error and the front display will show Initializing. A subsequent reboot may be observed after the upgrade.