



APX™ Portable Subscriber

Two-Way Radio

APX N70 Release Notes SR2022.2

NOVEMBER 2022

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Chapter 1

Radio Release Notes – Subscriber APX N70 R01.03.00 – November 2022

APX N70 Platforms:

APX N70 R1.0

New APX Firmware Version: R01.03.00

Previous APX Firmware Version: N/A

1.1

Important Notes

N/A

1.2

New/ Replacement Products

Abstract: Initial release of APX N70

System Platforms Affected: ALL

Special Configurations: N/A

Description: Reliable and clear portable radios that are rugged and easy to use, are non negotiable. Advanced features working in a larger public safety ecosystem must deliver actionable intelligence for increased situational awareness. Our APX N70 smart radio is for this purpose. The radio provides police and other first responders mission-critical communications and real-time information they need to stay connected and respond safely in any situation.

1.3

New Features

Abstract: APX N70 - SmartConnect WiFi Support

System Platforms Affected: ALL

Special Configurations: WiFi, P25 9600 Trunking, SmartConnect options, SmartConnect Subscription

Description: Provides the capability to also route SmartConnect over WiFi on APX N70. WiFi will have higher priority than LTE, if enabled.

Abstract: SmartConnect Adjustable Keep Alive

System Platforms Affected: ALL

Special Configurations: CC Admin 2.0 and the New SmartConnect Gateway and Provisioning interface needs to be enabled to configure this feature in the Gateway.

Description: Configurable SmartConnect Keep Alive intervals for both “fast” and “slow” links on the SmartConnect Gateway, allowing 20 second Min time versus the current fixed 60 seconds. This will improve situations when the radio user sees the active SmartConnect banner but the data cannot be passed to the SmartConnect Gateway.

Abstract: SmartMessaging Native App Evolution

System Platforms Affected: ALL

Special Configurations: SmartMessaging enabled

Description: Smartmessaging allows receiving and sharing of video, image and audio files. On this release the application also allows:

- 1 Text of attachments preview
- 2 Copy/paste text from attachments
- 3 Widget activation/provisioning errors feedback

Abstract: Replay Voice Announcements

System Platforms Affected: All APX Portable & Mobile radios

Special Configurations N/A

Description: Today, in all APX products the Voice Announcement (VA) is terminated if interrupted by a tone. To improve the customer experience, an enhancement was added in a previous release to replay the VA if interrupted by a momentary tone.

Abstract: SmartConnect User Experience Update

System Platforms Affected: SmartConnect Radios

Special Configurations: SmartConnect Infrastructure and Subscription

Description: Users of SmartConnect enabled APX Mobiles connected to an MG90 with multiple WAN bearers, including Satellite, will have additional notifications regarding the radio's SmartConnect connection and ability for PTT. Radio will have an indication to show when operating on Broadband (LTE/WiFi) vs Satellite.

Abstract: Adjustable Jitter Buffer for SmartConnect Operation on SAT Links

System Platforms Affected: APX Mobiles that support SmartConnect, and APX Standard, APX NEXT™ and APX N/30/50/70 that support Data Modem Tethering over WiFi.

Special Configurations: Required LMP update - LMP version LMP-02.21.00.40-01.

Supported on ASTRO 25 7.17.3, ASTRO 25 7.18, ASTRO 25 A2019.2, ASTRO 25 A2020.1, ASTRO 25 A2021.1. CC Admin 2.0 and the New SmartConnect Gateway and Provisioning interface need to be enabled to configure this feature in the Gateway.

Description: Smartconnect customers may experience audio drops and choppy audio on both the subscriber and the console when the subscriber is operating on Satellite links. Adjustable Jitter buffer allows for the system admin to improve audio quality.

Abstract: Modification of the PTT Warning Tone

System Platforms Affected: SmartConnect enabled Radios

Special Configurations: N/A

Description: This feature provides new tone selection for PTT warning tone. Standard APX PTT warning tone is a talk prohibit tone which is the same tone as PTT killed, Tx Inhibit, and so on. Users can now differentiate whether radio PTT is killed or in PTT retry state.

Abstract: Disable Fallback to Legacy Bluetooth Pairing

System Platforms Affected: APX Standard, APX NEXT™ and APX N30/50/70

Special Configurations: N/A

Description: This option is designed to block usage of Bluetooth enabled accessory that uses Bluetooth Core Specification 2.0 and earlier which is classified as vulnerable in security.

Offering radio protection against usage of vulnerable accessories. Vulnerable accessories will be rejected with an error message on the menu.

Abstract: Alternative feedback tone after press of RSM volume button/ rocker

System Platforms Affected: N/A

Special Configurations: APX Portable radios using RSMs

Description: The functionality is controlled by a new CPS field, see Radio Wide -> RSM Volume Set Tone. Volume Set Tone 1 corresponds to the existing feedback tone used by newer RSMs. Volume Set Tone 2 selects a lower pitch tone matching the feedback tone used by mobiles and older RSMs, making it more distinguishable from MDC Sidetone. The enhancement will allow newer model RSMs play the older feedback tone.

Abstract: Filtering of received MDC Emergency Alarms by PL/DPL

System Platforms Affected: Conventional Analog MDC systems

Special Configurations: N/A

Description: This enhancement for APX radios is controlled by a new CPS field, see Conventional System -> System Type MDC -> Qualify Alarm Rx Indicator. When enabled, the receipt of incoming MDC Emergency Alarms will depend on matching PL/DPL (Private Line / Digital Private Line). The PL/DPL qualification will be applied in the same manner to both the Emergency Alarms and the Emergency PTT voice calls.



NOTE:

If you enable this feature, the radio will no longer receive Emergency Alarms with non-matching PL/DPL.

1.4

Updates

N/A