



# APX New Feature Brief: SR2023.2- Feature Release

Updated: January 2024

This is a **New Feature Release (NFR)** with incremental changes to the Baseline Release. New orders from the factory must be flagged to use the latest NFR for a radio build. Please reach out to your Motorola Solutions representative to change new orders from the Baseline Release to the New Feature Release.

The SR2023.1 Baseline Release is the major software release and will be the standard firmware shipped from the factory for a 1 year duration.

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To learn more about the features within this release, [visit our SR2023.2 subscriber release training course.](#)

# A - APX STANDARD PORTABLE AND MOBILES

SUBSCRIBER APX R31.00.00

## APX Portable Platforms

APX 8000 APX 8000XE APX 8000H APX 8000HXE	APX 7000 APX 7000L APX 7000XE APX 6000 APX 6000XE APX 6000Li	APX N50 APX 4000 (1&2 knob) APX 4000H APX 3000	APX N30 APX 2000 APX 1000 APX 900 VX-P949 SRX 2200
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## APX Mobile Platforms

APX 8500 APX 8500HP	APX 7500 APX 6500 APX 6500Li	APX 4500 APX 4500Li APX 2500 APX 1500	TXM 2000 VHF TXM 3000 v 2.4
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**New APX firmware version:** R31.00.00

**Previous APX firmware version:** R30.02.00

**APX VR Platforms:** DVR-LX/DVR/VRX1000

**New Version:** R1.85

**Previous Version:** R1.80

Companion Futurecom Repeater Configuration software, FRC 1.35

A.1

## IMPORTANT NOTES

### Abstract: Scheduled Release

- **Description:** N/A



## A.2

# NEW/REPLACEMENT PRODUCTS

### Abstract: APX™ N30 and APX™ N50 VHF Models - 136-174 MHz

- **System Platforms Affected:** All
- **Special Configurations:** N/A
- **Description:** APX N50 and APX N30 are new APX portables that bring key next generation features launched with APX NEXT into different user groups in the single band tiers. They offer a slim, efficient form factor with an updated user interface on a larger front display.
  - APX N50 supports hardware encryption, FIPS 140-3 Level 1 and Level 3, FIPS 197
  - APX N30 supports software encryption, FIPS 140-3 Level 1, FIPS 197. It cannot be upgraded to support hardware encryption.
  - APX N50 and APX N30 both support WiFi and SmartConnect via WiFi
  - APX N50 and APX N30 support ViQi Basic Voice Control, which operates similarly to the ViQi Voice Control on APX NEXT, but with a limited set of specific commands users can use.

## A.3

# NEW FEATURES

### Abstract: Pre-Configured Mode Select for Home in Codeplug

- **System Platforms Affected:** All portable APX radios
- **Special Configurations:** N/A
- **Description:**
  - Allow Preset Channels to be pre-provisioned in the codeplug and provides the option to Enable/Disable Preset Channel programming by the user on the radio.
  - Also, provide the ability to configure the APX radios with the "Home Channel" function adding the option to remove, or disable, the Home Channel touch-screen.

### Abstract: VA Interrupt via Button Press and High Power Indication on Emergency Mode

- **System Platforms Affected:** All APX
- **Special Configurations:** N/A
- **Description:**
  - VA Interrupt via User-Initiated Button Press: The customer should be able to stop the Voice Announcement through a user-initiated button press. The VA will continue to be replayed if it is interrupted by an autonomous response.
  - interrupted by an autonomous response.
  - Display High power indication when entering on Emergency mode: The customer requested the High/Low power icon to match the actual transmit power level while operating in Emergency.



### **Abstract: WiFi per Channel/TG**

- **System Platforms Affected:** All Wi-Fi capable radios
- **Special Configurations:** QA09001/GA09001 WiFi Capability
- **Description:** Provides the ability to allow or block Wi-Fi per channel.

### **Abstract: Editable Recent Call List (RCL)**

- **System Platforms Affected:** ALL APX radios
- **Special Configurations:** N/A
- **Description:** This feature provide more manageable RCL queue using filters and delete options
  - Provides the ability to delete calls from the Recent Calls list.
  - Provides the ability to filter based on call types in the Recent menu.
  - Add Remote Emergencies filter in the Recent menu.

### **Abstract: Short/Long Button Keypress for Features**

- **System Platforms Affected:** All APX portable radios
- **Special Configurations:** Applicable to Radio and RSM.
- **Description:** Provides the ability to adjust the short/long keypress durations for individual buttons instead of global settings.

### **Abstract: Digital Conventional PTT Tone**

- **System Platforms Affected:** Only supported on Motorola Digital Conventional Duplex repeaters.
- **Special Configurations:** APX Standard (BN Models)
- **Description:** This feature enable the radio to sound a standard P25 talk permit tone or talk prohibit tone when PTT is triggered in the Digital Conventional channel

### **Abstract: Smartconnect and Data Modem Tethering (DMT) On New Sierra Wireless XR Series Modem**

- **System Platforms Affected:** All APX that support SmartConnect and Data Modem Tethering
- **Special Configurations:**
  - DMT-GA09011 or DMT over WiFi- GA01545, GA09011,
  - SmartConnect- Portables QA07682, Mobiles GA01630
  - For SmartConnect : Application Service number SSV01S01663A. For additional requirements on your radio or infrastructure, contact your sales representative.
- **Description:** Providing SmartConnect and Data modem Tethering functionalities with the new XR series modems to make it compatible with the complete solution MSI is offering today.



# B - APX NEXT SERIES PORTABLES

SUBSCRIBER APX R04.80.00

## APX NEXT Portable Platforms

APX NEXT  
APX NEXTi  
APX NEXT XE  
APX NEXT XN

**New APX firmware version:** R04.80.00

**Previous APX firmware version:** R04.75.00

B.1

## IMPORTANT NOTES

### Abstract: Scheduled Release

- **Description:** N/A

B.2

## NEW/REPLACEMENT PRODUCTS

N/A



## NEW FEATURES

### Abstract: Pre-Configured Mode Select for Home in Codeplug

- **System Platforms Affected:** All portable APX radios
- **Special Configurations:** N/A
- **Description:**
  - Allow Preset Channels to be pre-provisioned in the codeplug and provides the option to Enable/Disable Preset Channel programming by the user on the radio. (ALL Portables)
  - Also, provides the ability to configure the APX radios with the "Home Channel" function adding the option to remove, or disable, the Home Channel touch-screen. (ALL Portables)
  - Users will be able to use the voice command "change to Preset X" for presets that have been configured in the codeplug or by the user. (APX NEXT/N70 Only)

### Abstract: VA Interrupt via Button Press and High Power Indication on Emergency Mode

- **System Platforms Affected:** All APX
- **Special Configurations:** N/A
- **Description:**
  - VA Interrupt via User-Initiated Button Press: The customer should be able to stop the Voice Announcement through a user-initiated button press. The VA will continue to be replayed if it is interrupted by an autonomous response.
  - Display High power indication when entering on Emergency mode: The customer requested the High/Low power icon to match the actual transmit power level while operating in Emergency.

### Abstract: SIM Invalid or Removed Trigger (SIRT) to Action Consolidation

- **System Platforms Affected:** APX NEXT
- **Special Configurations:** LTE service w/physical SIM card, Remote Inhibit requires Tech Console
- **Description:** This new feature is intended to solve misuse cases of large customers who have conventional RF systems. SIRT or SIM Invalid or Removed Trigger uses the Codeplug to configure a looping action consolidation to help Radio Admins find these misused radios and mitigate that risk remotely. The feature has an on-device alerting system which notifies the user to re-insert the proper SIM card. There is another more covert feature that silently sends a status message every 60 seconds to the Radio Admin through the Tech Console. This status message repeats until the feature is deactivated

### Abstract: WiFi per Channel/TG

- **System Platforms Affected:** All Wi-Fi capable radios
- **Special Configurations:** QA09001/GA09001 WiFi Capability
- **Description:** Provides the ability to allow or block Wi-Fi per channel.



### **Abstract: Editable Recent Call List**

- **System Platforms Affected:** All APX radios
- **Special Configurations:** N/A
- **Description:** This feature provide more manageable RCL queue using filters and delete options
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- **System Platforms Affected:** All APX portable radios
- **Special Configurations:**Applicable to Radio and RSM.
- **Description:** Provides the ability to adjust the short/long keypress durations for individual buttons instead of global settings.

### **Abstract: Digital Conventional PTT Tone**

- **System Platforms Affected:** Only supported on Motorola Digital Conventional Duplex repeaters.
- **Special Configurations:** N/A
- **Description:** This feature enable the radio to sound a standard P25 talk permit tone or talk prohibit tone when PTT is triggered in the Digital Conventional channel

### **Abstract: Smartconnect and DMT On New Sierra Wireless XR Series Modem**

- **System Platforms Affected:** All APX that support SmartConnect and Data Modem Tethering
- **Special Configurations:**
  - DMT-GA09011 or DMT over WiFi- GA01545, GA09011,
  - SmartConnect- Portables QA07682, Mobiles GA01630
  - For SmartConnect : Application Service number SSV01S01663A. For additional requirements on your radio or infrastructure, contact your sales representative.
- **Description:** Providing SmartConnect and Data modem Tethering functionalities with the new XR series modems to make it compatible with the complete solution MSI is offering today.



# C - APX N70 SERIES PORTABLES

SUBSCRIBER APX R01.61.00

## APX N70 Portable Platforms

APX N70

**New APX firmware version:** R01.61.00

**Previous APX firmware version:** R01.41.00

C.1

## IMPORTANT NOTES

N/A

C.2

## NEW/REPLACEMENT PRODUCTS

### Abstract: APX N70 Div1 + Div 1 Battery Support

- **System Platforms Affected:** APX N70 700/800MHz
- **Special Configurations:** Must select "TIA-4950 (UL)" in CPQ field "Hazardous Location"
- **Description:** Support for UL DIV 1 Certification of APX N70 7/800 Radio
  - Support for the DIV 1 Battery - 3650mAH (PMNN4818)
    - UL: DIV 1, Class I (C,D), Class II (E,F,G), Class III Hazardous Locations, Class I, Division 2, Groups A, B, C, D
  - Support new Hybrid Holster for DIV 1 battery solution

**Note: Available in October**

### Abstract: APX N70 7/800 Stubby Antenna

- **System Platforms Affected:** APX N70 700/800MHz, APX N50 700/800MHz, APX N30 700/800MHz
- **Special Configurations:** Must select "Stubby" in CPQ field "Antenna Type"
- **Description:** New 10 cm shorter antenna (AN000418A01) for the 7/800Mhz APX N70/50/30 models

**Note: Available in September**





## NEW FEATURES

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- **Special Configurations:** N/A
- **Description:**
  - Allow Preset Channels to be pre-provisioned in the codeplug and provides the option to Enable/Disable Preset Channel programming by the user on the radio. (All Portables)
  - Also, provides the ability to configure the APX radios with the "Home Channel" function adding the option to remove, or disable, the Home Channel touch-screen. (All Portables)
  - Users will be able to use the voice command "change to Preset X" or "switch to Preset X" for presets that have been configured in the codeplug or by the user. (APX NEXT/N70 Only)

### Abstract: VA Interrupt via Button Press and High Power Indication on Emergency Mode

- **System Platforms Affected:** All APX
- **Special Configurations:** N/A
- **Description:**
  - VA Interrupt via User-Initiated Button Press: The customer should be able to stop the Voice Announcement through a user-initiated button press. The VA will continue to be replayed if it is interrupted by an autonomous response.
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# D - DEVICE MANAGEMENT

**CPS New Version: R31.00.01**

**CPS Previous Version: R30.00.00**

**RadioCentral New Version: 2.140.125.0**

**RadioCentral Previous Version: 2.136.189.0**

D.1

## IMPORTANT NOTES

### Abstract: ASTRO RM-CPS Operating Systems Support

- **System Platforms Affected:** ALL
- **Special Configurations:** N/A
- **Description:** Starting with version R29.00.00, APX RM/CPS is only supported on 64 bit versions of the following operating systems:
  - Windows 11
  - Windows 10 (from 1607 version)
  - Windows Server 2016

### Note:

Please see the APX\_CPS\_Readme file and the CPS HELP for additional information.

