



APX NEXT™ Subscriber

Two-Way Radio

APX NEXT Release Notes

SR2023.1

MAY 2023

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Chapter 1

2023.1 Radio Release Notes – Baseline Release Subscriber APX NEXT R04.71.00 – April 2023

This release baseline is orderable for one year and is intended for customers purchasing new products without requiring new feature content.

APX NEXT Platforms:

APX NEXT R2.0

New APX Firmware Version: R04.71.00

Previous APX Firmware Version: R04.61.00

1.1

Important Notes

APX NEXT radio upgrade to avoid service interruption.

- Due to the rollout of a 3rd party cloud provider's security updates, new SSL/TLS certificates will go into effect during 2023. In order to avoid the possibility of service disruption due to the new certificates, an APX NEXT radio firmware update is required.
- All APX NEXT radios are required to upgrade to version R04.51.00 (SR2022.2) or greater prior to 28-February, 2023.

Please refer to **MTN-0168-22-NA** via <https://learning.motorolasolutions.com>

Abstract: After a firmware update, a momentary message may pop-up stating “SIM Card Locked”.

System Platforms Affected: ALL

Special Configurations: APX NEXT firmware update.

Description: After a firmware update, a message may pop up, momentarily, stating “SIM Card Locked. Contact your IT Administrator.”. The message will not appear upon subsequent power cycles. The SIM is not locked in these instances. There is no need to contact an administrator, unless this message is persistent.

Abstract: APX NEXT programming via CPS and Radio Management utilize zip file format.

System Platforms Affected: ALL

Special Configurations: APX NEXT firmware update via CPS and Radio Management.

Description: The upgrade package for APX NEXT firmware updates via CPS and Radio Management is utilized in .zip format. Please do **not** unzip the firmware package file after you download it from MyView. Use the APX NEXT .zip file in CPS and for importing into the Radio Management database.

1.2

New/ Replacement Products

Abstract: Enhanced XVE500 RSMs with APX NEXT.

System Platforms Affected: ALL

Special Configurations: N/A

Description: New RSM model to support UL Div 1 & 2 compliance, TAA compliance And common RSM across APX NEXT radios. APX NEXT XN, APX NEXT XE, APX NEXT & APX NEXT International.

1.3

New Features

Abstract: SmartConnect Device on Foreign P25 System Support.

System Platforms Affected: APX NEXT customers using non-MSI infrastructure that would like to use SmartConnect for backup PTT.

Special Configurations: SmartConnect capable radios (LTE/ WiFi: APX NEXT family of radios), SmartConnect GW configuration and provisioning application to configure the foreign system on the SmartConnect GW, also support to allow the foreign radio to establish TLS connection and forward all the calls related to the radio. Access to MSI Zone Core via ISSI. CommandCentral Admin 2.0

Description: Enable the Subscribers to establish Smartconnect with the Foreign Gateway when the LMR radio roamed to foreign system via ISSI.

Abstract: SmartConnect Device on Foreign P25 System with Emergency Cancel Support.

System Platforms Affected: APX customers using non-MSI infrastructure that would like to use SmartConnect for backup PTT.

Special Configurations: SmartConnect capable radios (LTE/ WiFi: APX NEXT family of radios), SmartConnect GW support to allow the foreign radio to establish TLS connection and forward all the calls related to the radio under test. Access to Astro Zone Controller via ISSI (A2022.1 and A2021.1).

Description: This feature allows the ISSI enabled LMR radio to support the Harris Style Foreign emergency cancel while operating with foreign Gateway.

Abstract: Remote Activation of Emergency.

System Platforms Affected: ALL

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 a way for any APX radio to remotely activate Emergency on a target radio in both APCO Conventional and/or APCO Trunking.

Abstract: PSU on DVR Busy Channel Lockout.

System Platforms Affected: ALL

Special Configurations: Customer who uses a radio as DVRS PSU.

Description: Allows a DVRS PSU to politely transmit a Voice Request. When the feature is enabled, the DVRS PSU will only transmit a Voice Request in response to a PTT while the channel is idle. If there is audio activity on the channel, then DVRS PSU will either wait until the channel becomes idle. If the Voice Request retry timer expires before the channel becomes idle, then the PTT is aborted without any transmission attempts.

Abstract: Acoustic Feedback Suppressor for APX NEXT and RSMs.

System Platforms Affected: ALL

Special Configurations: Supported on APX NEXT, APX NEXTi (international), APX NEXT XE, APX NEXT XN. Supported RSMs: XV, XVP 830/850, XVE500, XVN500.

Description: Acoustic feedback is generated when a receiver loudspeaker is acoustically coupled to a transmitter microphone, causing a regenerative signal loop to be created that generates an extremely annoying sound (Howling effect). This forces the end user with the receiver to either distance himself from the transmit radio, lower the volume, or cover the speaker in attempts at eliminating the feedback effect. This feature detects this howling and suppresses it.

Abstract: Radio Notification enhancements and SmartConnect UX Update.

System Platforms Affected: ALL

Special Configurations: N/A

Description: Provide feedback to user when:

- 1 Radio is not usable(searching for control channel) – “Searching Site”.
- 2 Radio is connecting to gateway – “Searching Site”.
- 3 Trunking radio busy receiving voice – Yellow LED.

Also, Improved mobility operations:

- 1 Shorter imbalanced coverage holdoff time (30 seconds vs 1–4 minutes).
- 2 Removing Individual FRHOT.
- 3 Holdoff Ranking Change on Low RAW RSSI Value.

Abstract: SmartMessaging Evolution for 2023.1.

System Platforms Affected: APX NEXT family.

Special Configurations: Requires Kodiak CCF and Kodiak Server. Configuration on Radio Central Only for Enablement and Canned Messages.

Description: The enhancements of SmartMessaging on this release are:

- 1 PDF viewer.
- 2 SmartMapping interactions.
- 3 Widget update to show sync in progress.
- 4 Warning while backing out of a quick message.
- 5 Multimedia UI enhancement.