



APX NEXT™

Release Notes R2020.3

SEPTEMBER 2020

Radio Release Notes – Subscriber APX NEXT R02.60.00 – August 2020

APX NEXT Platforms:

New Version: Devices – R02.60.00

Old Version: Devices – R02.41.00

New Products:

APX NEXT Model 4.5 SINGLE BAND

System Platforms Affected: N/A

Special Configurations: N/A

Description: Introduction of new APX NEXT Single Band Model H45TGT9PW8AN, extending the APX NEXT value offer to customers who need only single or dual band configuration at a lower price point. APX NEXT Single Band provides an alternative to current APX 6000 series radio users, by extending capabilities such as Smart Programming, SmartConnect, SmartLocate, SmartMessaging, SmartMapping, and ViQi voice operations.

New Features:

Voice Recording - Instant Recall

System Platforms Affected: All

Special Configurations: APX NEXT Only. Parity with APX

Description: This feature allows APX NEXT radio to store up to 60 seconds of buffered Received audio. Audio Playback can be initiated through the codeplug programmable side button and from the Instant Recall call list in Recent Call menu. All audio files are permanently removed from memory upon power cycle for CJIS compliance.

WiFi Connectivity Check

System Platforms Affected: All

Special Configurations: APX NEXT Only. LTE and WiFi enabled

Description: Allows an APX NEXT radio to automatically switch from WiFi to LTE when a problem with connectivity is detected on WiFi.

FIPS Compliant Password Handling

System Platforms Affected: All

Special Configurations: Hardware AES encryption - Encryption algorithm (AES256) for FIPS 140-2 Level 2 or 3.

H-Options: Q629 - ENH: AES ENCRYPTION AND ADP

Q15 - ENH: AES/DES,DES-XL,DES-OFB AND ADP

Description: When the radio's FIPS Mode of Operation is changed, secure keys must be erased and password is defaulted.

Touchless Key Provisioning (TKP) for E2E Encryption

System Platforms Affected: All

Special Configurations: APX NEXT Only. SR2020.3+.

KMF version R10.00.5xx and later.

KMF CRYPTR version R03.03.05 and later.

AES-256 algorithm must be present in radios and KMF CryptR.

Description: This feature allows APX NEXT radio the option to be provisioned for encryption remotely using KMF.

Touchless operation will work for radios shipping from the factory with 2020.3 firmware. TKP will not work for APX NEXT Radios that shipped prior to factory introduction of the feature.

- The Motorola Solutions Factory will load the device public key information directly to RadioCentral
- The radio system administrator will have to complete the export/input operation with received key information from RadioCentral to KMF
- New proprietary OTAR key management messages between the KMF and Radio have been added to authenticate both devices and transfer the initial key (UKEK)

TKP will support AES-256, DES-OFB, DES-XL and DVP-XL

ADP is not supported by the KMF, so ADP keys will be entered into the codeplug and imported into the radio's hardware security module upon install of the codeplug.

SmartMapping for APX NEXT

System Platforms Affected: All

Special Configurations: APX NEXT Only. Location reported to location services through SmartLocate or IMW (APX). Customer configuration in CCAdmin.

Description: The SmartMapping solution is intended to enhance first responder situational awareness and provide enhanced coordination capabilities through a mapping application that is accessible with the APX NEXT radio.

Changes in 2020.3

- Add and edit Waypoints from map
- Iconography enhancements

SmartMessaging for APX NEXT now available in Canada

System Platforms Affected: Broadband Enabled APX NEXT portable

Special Configurations: APX NEXT Only

Description: A broadband enabled messaging application on APX NEXT enables seamless & discrete communication with key partners and improves situational awareness.

Option 1: SmartMessaging LMR Message Interop allows messaging (individual and group) between APX NEXT and APX devices. Any multimedia content (video, audio, and images) in text messages is not presented to APX subscribers.

Note: ASTRO subscribers may only be provisioned on a single messaging service. Devices provisioned on PremierOne CAD or Flex CAD systems may not be provisioned on SmartMessaging.

Option 2: The Dispatch Client allows a dispatcher to communicate with APX NEXT subscribers, which have the SmartMessaging service, through either 1-1 messages, group messages, multimedia attachments such as images, videos, and audio files.

NOTE: SmartMessaging changes in Command Central admin are not automatically forwarded to the Universal Gateway. Any changes required for SmartMessaging subscribers should be submitted to support email address: waveccfulfillment@motorolasolutions.com

Failsoft Behavior Improvement

System Platforms Affected: All

Special Configurations: N/A

Description: Provides the configurable option in RadioCentral for the Failsoft functionality to revert to the Control Channel (legacy behavior) or to a particular Failsoft Talkgroup.

Role Based Access Control on RadioCentral for APX NEXT

System Platforms Affected: All

Special Configurations: APX NEXT Only.

Description: RadioCentral Role Based Access introduces three different roles that can be assigned to a user. The role assignment allows access control to individuals managing the Device configuration in an agency. New roles:

- A. **Admin:** has full access to create, update, delete configuration elements, licensing and schedule Jobs
- B. **Technician:** can create, update and delete configuration elements (but can NOT schedule Jobs)
- C. **Reader:** can only view the radio fields and configurations.