



Policy #24-03

June 11, 2024

Cancels:
ECC Policy #20-03

Subscriber Radio Features Policy

I. PURPOSE

This document sets forth the policies governing the Subscriber Radio Features and provides the standards and operating parameters on the St. Louis Area Trunked Emergency Radio (SLATER) system as provided by the St. Louis County Emergency Communications Commission.

II. GENERAL

Agencies should strive to have all of their radios bear the same model numbers and features. Managing a fleet of radios with different model types, features and codeplugs can create a training issue and may cause situations in which a radio does not function as expected creating a possible safety issue for the user.

III. POLICY

The ECC will only allow programming of ECC codeplugs into ECC approved radios listed below, created for that discipline and agency subscriber radios. To set a standard for radios, features and options to operate on the St. Louis County 800 MHz P25 radio system that is managed by the ECC the radios and minimum standards listed below must be adhered to when purchasing a radio that will require access to the system. These standard features do not take into account accessories like microphones, remote speaker microphones, chargers, etc., and/or other items to do installations.

A. Mandatory features for all subscriber radios:

1. 4F2 is set as the Owner System ID
 - a. This is required for St. Louis County subscriber radios that use the SLATER Radio System as its home system, and/or radios owned by outside agencies that only utilize the SLATER Radio System, and whom do not have their own home radio system.
2. ADP Encryption
3. Multi-system capability
4. Advanced System Key Enhanced Operation (ASK) Hardware Key

B. **Fire Departments and Districts in St. Louis County**

APX8000HXE Dual Band Model Number **H91TGD9PW8AN** or Motorola current equivalent model 2.5/3.5 Fire Department radios must be purchased with these mandatory options:

1. H869BW: Multikey
2. QA01648AA: Advanced System Key Enhanced Operation (ASK)
3. Q806CB: ASTRO Digital CAI Operation
4. Q361AN: P25 9600 Baud Trunking
5. QA02006AD: APX8000HXE Rugged Radio
6. QA05509AA: **Delete** UHF Band
7. QA00631 DVRS PSU Activation
8. QA09008AA: Group Services
9. H38BS: SmartZone Operation
10. G996AP: Programming Over P25 (OTAP)
11. Q629AH: AES Encryption and ADP
12. QA0127AG: APX8000HXE Housing Green
13. PMNN4547A: Battery Impres2 LIION TIA4950 R IP68 3100T
14. AN000342A01: V/U/700/800 GPS MHz Whip Antenna

C. **First Responder Mobile Radios**

APX8500 Model Number M37TSS9PW1AN or Motorola current equivalent Dual Band Remote Mount Mobile radio **with 05/E5 control head** radios must be purchased for Police, Fire and EMS vehicles with these mandatory options:

1. W969BG: Multikey
2. QA01648AA: Advanced System Key Enhanced Operation (ASK)
3. GA09008AA: Group Services

4. G996AS: Over the Air Provisioning
5. G51AT: SmartZone
6. GA05509AA: **Delete** UHF Band
7. G843AH: AES Encryption and ADP
8. *GA00631AA: DVRS MSU Activation (if the radio is intended to be used in conjunction with a DVRS. Otherwise, this isn't necessary).
9. G806BL: ASTRO Digital CAI OP APX

**The APX8500 Mobile Radio can be used with the same antennas as the APX7500 with the addition of the following:

- a) EQ000103A02: All Band Multiplexer
- b) CB000091A02: Cable, coaxial QMA plug to QMA plug connector.
- c) CB000091A09: Cable, coaxial QMA plug to mini-UHF jack connector (2) needed – one for VHF and the other for 700/800 MHz antennas.
- d) CB000091A04: Cable, coaxial QMA plug to SMA jack connector (for original GPS antenna style).

The two antennas used for the radio are the following:

- a) HAF4016A: Unity Gain 800 MHz roof mount antenna
- b) HAD4008A: Unity Gain VHF Quarter wave roof mount antenna

Original GPS antenna:

HAG4000

D. Law Enforcement – St. Louis County PD and Municipal Police Departments

APX6000 Model Number H98UCF9PW6BN or Motorola current equivalent Model 2.5 Police Department radios must be purchased with these mandatory options:

1. QA01648AA: Advanced System Key Enhanced Operation (ASK)
2. G996: Over the Air Provisioning
3. Q361AR: P25 9600 Baud Trunking
4. H38BT: Smartzone Operation
5. Q806BM: ASTRO Digital CAI Operation
6. H869BZ: Multikey
7. Q629AK: AES Encryption and ADP
8. QA09008AA: Group Services
9. PMNN4485A: Battery Impres2 LIION IP68 2550T
10. NAF5085 700/800 GPS MHz Whip Antenna

***Prosecuting Attorney's Office**

Everything as above with exception to **QA09008AA: Group Services**.

As an alternative: APX8000 Single Band Model Number **H91TGD9PW6AN** or Motorola current equivalent model 2.5 Police Department radios must be purchased with these mandatory options:

1. H869BW: Multikey
2. QA01648AA: Advanced System Key Enhanced Operation (ASK)
3. Q806CB: ASTRO Digital CAI Operation
4. Q361AN: P25 9600 Baud Trunking
5. QA05509AA: **Delete** UHF Band
6. QA05508AA: **Delete** VHF Band
7. QA09008AA: Group Services
8. H38BS: SmartZone Operation
9. G996AP: Programming Over P25 (OTAP)
10. Q629AH: AES Encryption and ADP
11. PMNN4486A: Battery Impres2 LIION IP67 3400T
12. AN000342A01: V/U/700/800 GPS MHz Whip Antenna

Law Enforcement Agencies Wanting a Dual Band Portable

APX8000 Dual Band Model Number **H91TGD9PW6AN** or Motorola current equivalent model 2.5 Police Department radios must be purchased with these mandatory options:

1. H869BW: Multikey
2. QA01648AA: Advanced System Key Enhanced Operation (ASK)
3. Q806CB: ASTRO Digital CAI Operation
4. Q361AN: P25 9600 Baud Trunking
5. QA05509AA: **Delete** UHF Band
6. QA09008AA: Group Services
7. H38BS: SmartZone Operation
8. G996AP: Programming Over P25 (OTAP)
9. Q629AH: AES Encryption and ADP
10. PMNN4486A: Battery Impres2 LIION IP67 3400T
11. AN000342A01: V/U/700/800 GPS MHz Whip Antenna

E. Local Government, Transportation and Public Works

APX4000 Model Number H51UCF9PW6AN or Motorola current equivalent Model 2.5 Local Government radios must be purchased with these mandatory options:

1. QA01648: Advanced System Key Enhanced Operation (ASK)
2. G996: Over the Air Provisioning
3. QA02756AB ENH: 3600 or 9600 Trunking Baud Single System
4. H869CE Multikey
5. G193: ADP Only
6. NNTN8128C Battery Impres Li-Ion IP67 2000T
7. NAF5085 700/800 GPS MHz Whip Antenna

APX4500 Model Number M22URS9PW1BN or Motorola current equivalent single band mobile radio must be purchased with these mandatory options:

1. H869BW: Multikey
1. QA01648AA: Advanced System Key Enhanced Operation (ASK)
2. Q806CB: ASTRO Digital CAI Operation
3. Q361AN: P25 9600 Baud Trunking
4. H38BS: SmartZone Operation
5. G996AP: Programming Over P25 (OTAP)
6. G193: ADP Only

Sheriff's Dept, Park Rangers, DOJ, Animal Control, Medical Examiner and Security Services

Due to the sharing of some specific policing talkgroups, these divisions will require some features to ensure communications exist in the future with varying encryption methods.

APX4000 Model Number H51UCF9PW6AN or Motorola current equivalent Model 2.5 Local Government radios must be purchased with these mandatory options:

1. QA01648: Advanced System Key Enhanced Operation (ASK)
2. G996: Over the Air Provisioning
3. QA02756AB ENH: 3600 or 9600 Trunking Baud Single System
4. H869CE Multikey
5. Q629AM ENH: AES Encryption and ADP
6. NNTN8128C Battery Impres Li-Ion IP67 2000T

7. NAF5085 700/800 GPS MHz Whip Antenna

APX4500 Model Number M22URS9PW1BN or Motorola current equivalent single band mobile radio must be purchased with these mandatory options:

1. H869BW: Multikey
2. QA01648AA: Advanced System Key Enhanced Operation (ASK)
3. Q806CB: ASTRO Digital CAI Operation
4. Q361AN: P25 9600 Baud Trunking
5. H38BS: SmartZone Operation
6. G996AP: Programming Over P25 (OTAP)
7. Q629AH: AES Encryption and ADP

IV. **MEMORANDUM of UNDERSTANDING**

This policy is covered under the MOU signed previously by each public safety user and outside agency user on the SLATER system.

Approved by the Emergency Communications Commission on: 07-11-2024



Director,
Emergency Communications Network



Chairman,
Emergency Communications Commission