

# Purchasing Recommendations



Mobile and Portable Radios  
Going Forward  
WCCCA Technical Staff  
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RDP

# Where are our Regional Systems Headed

- City of Portland – 800/700 MHz P25 Phase I (long term to P25 Phase II)
- TriMet – 700 MHz P25 Phase I
- Clark County – 800/700 MHz P25 Phase I
- Washington County – 800 MHz P25 Phase II with limited Phase I support
- Clackamas County – 800 MHz P25 Phase II with limited Phase I support
- City of Salem – 800 MHz P25 Phase I&II
- State of Oregon – 700 MHz P25 Phase I

# WCCCA/C800 System Direction

- WCCCA/C800 intend to implement Phase II P25 systems with all of our physical channels TDMA (Time Division Multiple Access). This will allow 2 users to simultaneously use a single physical channel. This will effectively increase our capacity by 2X without increasing the number of channels we have in service today.
- We will support “Dynamic Dual Mode” on a subset of our channels to support guest radio users that are only capable of P25 Phase I.

# Regional Law Communications Changes

- The City of Portland is implementing a new encryption capable Phase I/II system and many key Law Channels will be encrypted in the future (current understanding)
- CRESA and Salem are also considering encryption for some talk groups.
  - To have the ability to interoperate with the some of the adjacent Law personnel on encrypted Talk Groups your radio must have P25 Phase I capability with the encryption option installed and enabled.

# Purchasing Options – Portable Radio

- WCCCA Staff recommends the following Portable radios by model and use.
  - APX4000 for administrative or non-public safety personnel
  - APX 6000 for all public safety users who do not need dual band capabilities
  - APX7000 for all public safety users that require multiband (dual band) capabilities to support interoperability with UHF or VHF systems in addition to the 700/800 band supported by the APX4000 and APX6000.

# Purchasing Options – Mobile Radio

- WCCCA Staff recommends the following Portable radios by model and use.
  - APX4500 for administrative or non-public safety personnel
  - APX 6500 for all public safety users who do not need dual band capabilities
  - APX7500 for all public safety users that require multiband (dual band) capabilities to support interoperability with UHF or VHF systems in addition to the 700/800 band supported by the APX4500 and APX6500.

# Features and Option to Consider

- WCCCA Staff does not have a clear vision of what may be possible over the next 3 to 5 years as technology evolves.
- Our assumptions are as follows:
  - Integrated Voice and Data on the hip and in the vehicle
  - GPS (for AVL both on the hip and in the vehicles)
  - Encryption for law enforcement
- Additional features will be department specific but will need to be aligned with the overall infrastructure design... and that has yet to be fully defined at this early date.

# Budgetary Costs APX4000/4500

## Non-Public Safety / Administrative

### Single Band (700/800)

#### APX 4000 Portable

	List Price Each	WSCA Price Each
Basic Model (w/charger)	\$ 1,819.00	\$ 1,365.00
Smart Zone Analog	\$ 1,100.00	\$ 825.00
Blue Tooth	\$ 0.00	\$ 0.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 650.00	\$ 488.00
P 25 Trunking	\$ 475.00	\$ 357.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00



#### APX 4500 Mobile (Dash Mount, 02 Control Head)

	List Price Each	WSCA Price Each
Basic Model	\$ 1,971.00	\$ 1,479.00
Smart Zone Analog	\$ 1,100.00	\$ 825.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 650.00	\$ 488.00
P 25 Trunking	\$ 475.00	\$ 357.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00



# Budgetary Costs APX6000/6500

## Public Safety User Community

### Single Band (700/800)

#### APX 6000 Portable (Model 2.5 with front & top display)

	List Price Each	WSCA Price Each
Basic Model (w/charger)	\$ 2,713.00	\$ 2,035.00
Smart Zone Analog	\$ 1,200.00	\$ 900.00
Blue Tooth	\$ 0.00	\$ 0.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 515.00	\$ 387.00
P 25 Trunking	\$ 300.00	\$ 225.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00



#### APX 6500 Mobile (Dash Mount, 05 Control Head)

	List Price Each	WSCA Price Each
Basic Model	\$ 2,625.00	\$ 1,969.00
Smart Zone Analog	\$ 1,200.00	\$ 900.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 515.00	\$ 387.00
P 25 Trunking	\$ 300.00	\$ 225.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00

# Budgetary Costs APX6000/6500 Public Safety User Community Dual Band (700/800/UHF or 700/800 VHF)

## APX 7000 Portable Dual Band (700/800 & VHF, front & top display)

	List Price Each	WSCA Price Each
Basic Model (w/charger)	\$ 4,430.00	\$ 3,322.00
Smart Zone Analog	\$ 1,500.00	\$ 1,125.00
Blue Tooth	\$ 0.00	\$ 0.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 515.00	\$ 387.00
P 25 Trunking	\$ 300.00	\$ 225.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00



## APX 7500 Mobile Dual Band (Dash Mount, 700/800 & VHF 05 Control Head)

	List Price Each	WSCA Price Each
Basic Model	\$ 3,486.00	\$ 2,614.00
Smart Zone Analog	\$ 1,500.00	\$ 1,125.00
GPS	\$ 150.00	\$ 113.00
AES/ Encryption P25	\$ 475.00	\$ 357.00
P25 Digital	\$ 515.00	\$ 387.00
P 25 Trunking	\$ 300.00	\$ 225.00
P 25 TDMA	\$ 450.00	\$ 338.00
Integrated Voice and Data	\$ 0.00	\$ 0.00