



Information
Technology



Motorola APX Next Radio

City Council Regular Session

March 18th, 2024

Radio Network Overview

The City of Burleson utilizes the Johnson County Radio Network for its primary radio communications.

Throughout May 2023, the Radio System suffered six outages

The outages occurred over one week, lasting anywhere from 30 minutes to the longest being three hours.

Dispatch fielded 72 calls during these outages, with 34 service calls for Police and 13 for Fire.

When the outages occurred the number of active radio channels was significantly reduced for emergency services



APX Next Radios



These outages caused BTX-IT to assess the radio services in the City and find a solution that ensures high availability and redundancy for First Responder communications.

Working with Motorola, BTX-IT selected the APX Next radios as a viable solution to resolve the discovered deficiencies in the Johnson County Radio Network, due to their built-in cellular and Wi-Fi capabilities.

On top of the physical radio hardware and peripherals, there are additional subscriptions that are required to provide additional capabilities, remotely update, and patch the radios.

APX Next Radios

These radios would remain online and functional outside the radio network and in a disaster scenario, using the BTX-IT Mini CRD. (Portable Cell Tower)

Burleson can get special pricing on the radios from the Fort Worth contract (40% savings). However, the pricing is only available until the end of next year.

Implementation is 4 to 6 months from order placement.

The year-one implementation costs are \$1,534,651.92.

The annual recurring subscription cost is \$74,021.76 for Years 1-5 and \$60,099.24 for Year 6.

The total implementation costs for the radios is \$1,890,838.20.



Funding for Radios

The year-one implementation cost of \$1,534,651.92 will be funded by debt issuance.

Initial Debt Capacity: \$8,900,000

Relocation:	PD Expansion Gas Line	
	PD Sally	\$1,200,000
Port:		\$ 700,000
Signal \$	Hidden Creek/Gardens Traffic	
	Public Safety	\$550,000
Radios:		\$1,534,652

Capacity: Revised Debt
\$4,915,348

The remaining funding (\$356,186.20)will be added to the IT Operating Budget over the next six years.



APX Next Radios

Staff Recommendation:

Approval of a contract with Motorola Solutions to purchase radios, peripheral equipment, and six years of subscription services through a cooperative purchase agreement with Fort Worth, TX in an amount of 1,890,838.20



Questions / Comments

