

CITY OF SEGUIN

RADIO INFRASTRUCTURE UPGRADE

Department of Information Technology



**INFORMATION
TECHNOLOGY**

WHY?

- **Previous Seguin radio infrastructure originally deployed in 2006**
 - Hardware production of Seguin's radio infrastructure ceased on 9/30/2011
 - Last ship date of hardware 12/31/2013
 - End of support scheduled for 12/31/2020
- **A study published in March 2011 by AACOG identified the following**
 - Gaps in the existing system
 - No interoperability with regional counterparts
 - Major disaster response concerns



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PROJECT 1 - RADIO INFRASTRUCTURE UPGRADE

- **Assessments began in October 2018; LCRA platform chosen in January 2019**
 - Chosen platform approximately one half the cost of competing quotes
- **Requirements:**
 - Upgrade radio infrastructure to a P25, 700 MHz 5 channel, phase II
 - New radio building behind 123 water tower
 - Extended natural gas line to site for generator back up
 - Cored into tower for interconnect
 - Release previously utilized radio frequencies
 - Region 53 700MHz Public Safety Planning Committee approval November 17, 2020



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PROJECT 2 - END USER RADIO INTEGRATION

- **Purchase, integration, and deployment of 227 handheld, mobile, and base station radios**
 - Took two weeks in August 2020
 - 113 vehicles with mobile radios had to be upgraded (AS/PD/FD/Utilities)
 - 105 portables distributed
 - 7 dispatch radios + 2 base stations (Utilities/PW)



PROJECT 3 - DISPATCH

- **Migrated onto LCRA radio network in August 2020 to allow for Dispatch renovations to take place**
 - Dispatch operated out of Bexar Metro from 8/17 – 9/18/2020
 - 6 New consoles
 - New furniture
 - New battery backups for PD building
 - New city issued refresh computers
 - Collaboration with LCRA, Bexar Metro, Electra Link, and city staff to complete work within short timeframe
 - Renovated the space (Facilities, Electrician, etc)
- **Voice Recording platform upgrade**
- **Established talk and interoperability channels for internal and external comms**
- **Release previously utilized radio frequencies**





VICTORY!

- **Seguin joins a regional consortium of 70 tower sites covering:**
 - 22,237 sq miles of 700MHz radio coverage
 - 18,000+ public safety radios on the LCRA system
- **Regional interoperability opportunities**
 - Cities: NB, SM, Schertz, Selma, Universal City, Cibolo, Marion
 - Counties: Guadalupe, Comal, Hays, Bexar, Gonzales, Wilson, Caldwell
 - Guadalupe County entities: Geronimo VFD, Sand Hills VFD, Marion VFD, New Berlin VFD, York Creek VFD,
 - ISD's: Judson, Hays
 - Other: TLU, SSLGC, GAATRS
- **Future growth**
 - City went from 5 to 6 dispatch consoles to meet projected growth of the city
 - Door is open for future interoperability with regional counterparts
- **LCRA radio services contract stipulates if infrastructure needs to be upgraded it will be covered by LCRA**
- **Project was completed with all associated aspects at two million less than the other primary option**
- **Auction off old radio platform**



SINCE MAY 2020

- **Covid-19**
 - Pivot to remote workforce
 - Council Chambers AV upgrade
 - TextMyGov implementation
 - JustFOIA online open records
 - Added Wi-Fi to the Coliseum parking lot
 - Parks, Main St, and Golf ERP software platform
- **Added to the city's fiber ring**
 - Kingsbury WT
 - 123 WT
 - New LCRA radio shack
 - ESC Region 20 fiber was cut into the library
- **Cybersecurity specific**
 - Citywide security awareness training to meet TX HB 3834 compliance
 - Completed DHS cyber resilience review
 - Second mutual aid ILA across Texas with NB, SM, and Texas State
 - City of Seguin and SSLGC's risk analysis and emergency response assessment for APWA
 - Tyler Tech, Microsoft, Gallagher and TXDoT were hit with cyber incidents
- **Completed SSLGC Nixon Ops building & Golf Pro Shop**
- **Year two/three network infrastructure upgrade**
- **Year one/two systems infrastructure upgrade/migration**
- **Completed FY19-20 5-year computer capital refresh, began FY20-21**
- **SCADA upgrade, long standing project to tie in iPads and display at UOC/WP**
- **Video intercom at the Annex (employee safety)**
- **Integrated Adobe's Large Government Account (LGA) program**
- **Averaging 478 support tickets p/ month**



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KUDOS & THANK YOU'S!

Project would not have been possible without

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Guadalupe County

LCRA

Bexar Metro

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Texas Cutting & Coring

IT Staff



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