

Interoperable Statewide Emergency Radio Infrastructure Fund

☐ History:

- 2011, the 82nd Legislature enacted HB-442 which established the fund through a portion of court fees.
- 2019, the 86th Legislature enacted HB-2952 which established the grant program
- In 2020 approximately \$20M in funding was awarded for infrastructure projects. (subscriber radio purchases are not an allowable expense)
 - \$1.16M allocated for statewide interoperability connections (TIRIS)
- In 2022 an additional \$250K was allocated for TIRIS support

TXICC - State Emergency Radio Infrastructure Grant Project

* EARTH COUNTY

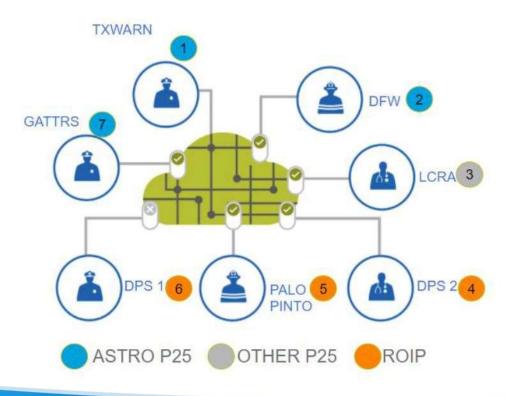
- ☐ Texas Interoperable Radio Interconnect System Phase 1:
- ☐ GOAL: Connect Texas radio systems
 - Better Situational Awareness
 - Statewide Interoperability achieving our System of Systems
- Multi-phased Approach
 - Phase I Connect 5 Major Regional Systems plus 3 test sites together
 - Multiple Vendors, Multiple system types
 - 10+ Statewide Interoperability Talkgroups
 - Phase II+: Additional coverage and system types

Texas System of Systems

* RRIS COUNTY 1010

Texas Department of Public Safety January 15, 2021

Texas System of System - Phase 1



ISSI vs Critical Connect



ISSI STANDARD PROVIDES

- One-to-One Interop
- P25 CAI
- Registration
- Group Call
- Affiliation
- ID/Alias Transport
- Emergency Group Call & Alert

- Announcement Group
- Manual Roaming
- Automatic Roaming
- Messaging
- Encryption

CRITICAL CONNECT DELIVERS MORE

ALL OF THE ISSI CAPABILITIES...

- P25 CAI
- Registration
- Group Call
- Affiliation
- ID/Alias Transport
- Emergency Group
 Call & Alert
- Announcement Group
- Manual Roaming
- Automatic Roaming
- Messaging
- Encryption

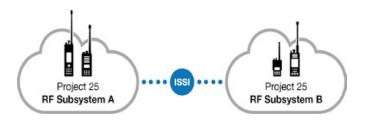
- Many-to-Many Interop
- Private Calling
- Ruthless Preemption
- Grouping/ Regrouping
- Data
 Communications

- Location
- Presence
- Status
- Status/Query Update
- End-to-End LMR Encryption

ISSI vs Critical Connect

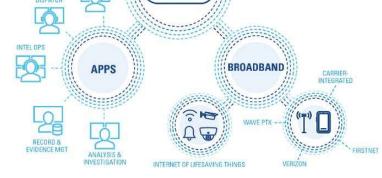


ISSI





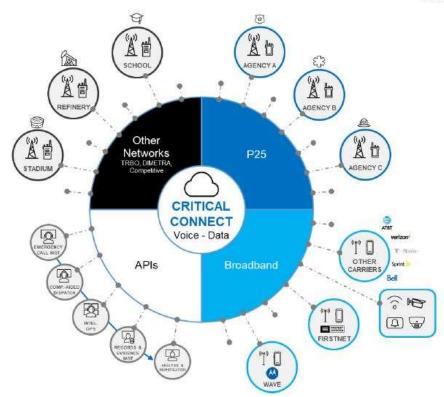
Critical Connect



Critical Connect Concept

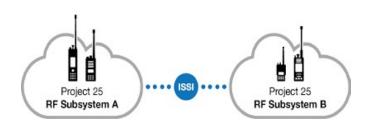
EMPERSAL

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Phase 1 connectivity options

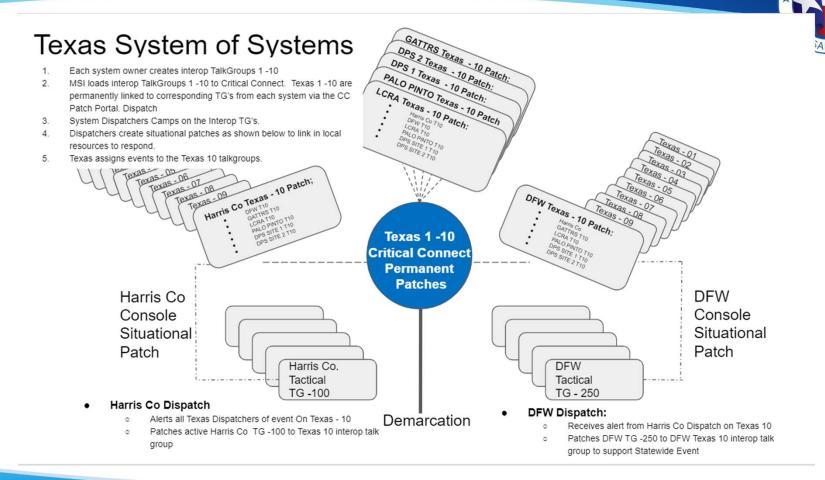




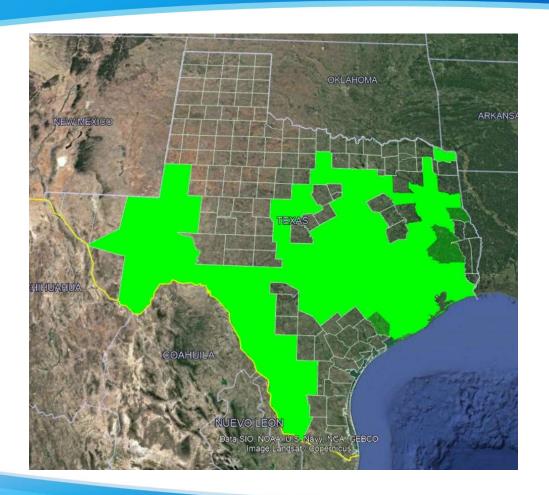




Initial Talkgroup – "Patching"



TIRIS - Phase 1



Trunked Systems:

- TXWARN System
- GATTRS
- LCRA
- NTIRN

Conventional:

- DPS P25 Conventional
- Palo Pinto County Analog

110 Counties Served!

PHASE I - Initial Operational Feedback



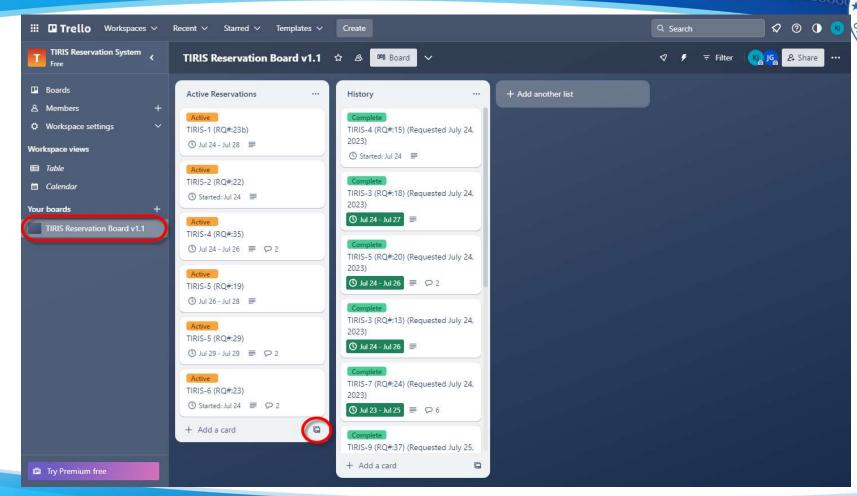
- Deployment Challenges
 - Broadband Access is NOT universal...yet.
 - LTE connectivity isn't everywhere in rural locations.
- Operational Results
 - Audio Quality is exceptional between analog, conventional and trunked systems
 - Critical Connect Portal requires vendor intervention. Several Releases.
- Operational Challenges
 - Local "Patched" talkgroups due to ISSI limitations
 - Manual talkgroup reservation (Call SWIC!)
 - Cabling for Analog / P25 Conventional Systems

PHASE I – First Year Operational Experience



- Deployment Status
 - DPS Dispatch sites all going to GATTRS rather than Vocality
 - Palo Pinto Site exceptionally reliable on JPS-Z2 / direct Internet connection
 - LCRA system upgrade / firewalls complete. Fully integrated.
- Operations
 - LOTS and LOTS of "Can you hear me now?" tests.
 - MS150 in Central Texas
 - Uvalde Eclipse Full Scale Exercise
- □ Operational Challenges
 - Inconsistent CC-backhaul outage reporting.
 - DPS working to deploy a Trello-based Reservations System

TIRIS Reservations Board



Public Safety Technology – Communications

PHASE I – Governance



- Governance Documents
 - TIRIS Governance Committee developed TIRIS Governance Board Agreement
 - DPS Office of General Counsel has approved
 - Final Document reviewed and ready to send to partner agencies
- □ CALL TO ACTION -
 - Provide Partner Signatory Contact information
 - Send to <u>TXSWIC@dps.texas.gov</u>
 - Provide Partner Reservation User List
 - Send to <u>TXSWIC@dps.texas.gov</u>

TIRIS – Use Case: Solar Eclipse 4/8/2024





Phase II and Phase III



- □ Phase II funding Completed
 - Renewal of Network Connectivity
- □ Phase III Planning
 - Additional areas under consideration
 - Lower Rio Grande
 - SETTRS
 - Corpus Christi
 - Victoria
 - Bexar County
 - Additional Conventional System Support
 - Deployable Support for TIRIS (Using re-purposed Vocality boxes)

