

Utah Communications Authority



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Introduction





- Primary Functions of UCA
- P25 Upgrade
- Challenges

Overview



Primary Functions



- Statewide NG911 Phone System
- Statewide Public Safety Communications Network
- Statewide Public Safety Radio System
- Statewide Interoperability Coordination

Statewide Next Generation 911 Phone System



CALL IF YOU CAN
TEXT IF YOU CAN'T



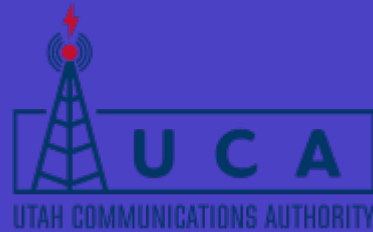


Location Based Routing

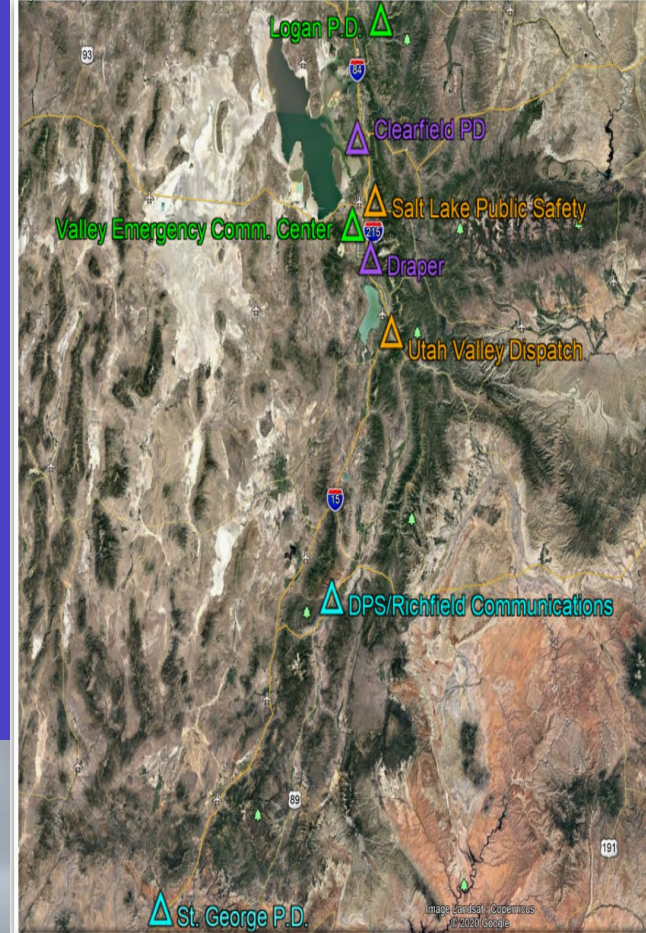


- February, 2023 - Over 15% increase in 911 call volume compared to February, 2022.
- Calls being routed by location vs. cell phone tower
- Location Based Routing - **48% decrease in call transfers.**
- **Time Saved = 12.2 hours in one month**

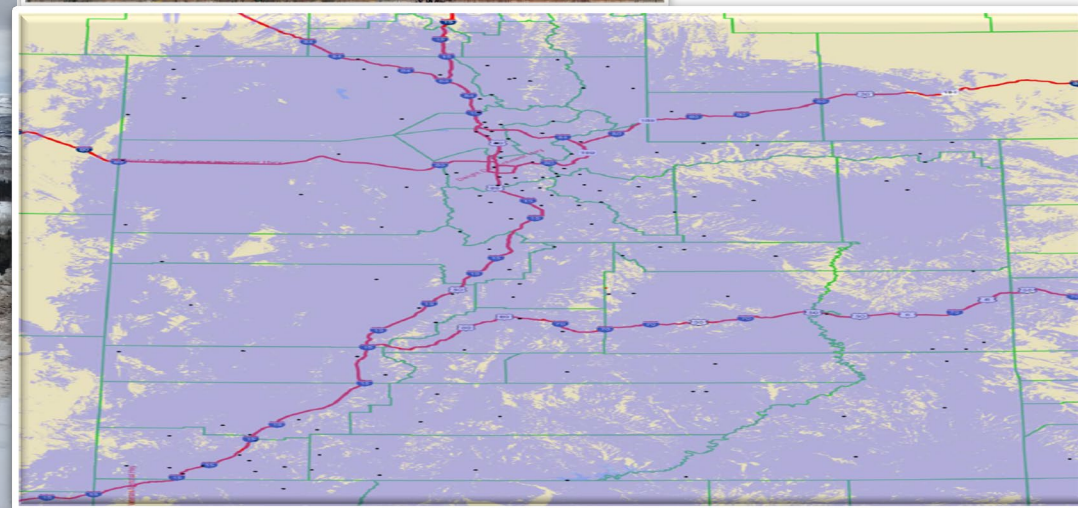
Statewide Public Safety Communications Network



Statewide Public Safety Radio System



REGION 10 CORES	
Primary	Valley Emergency Comm. Center
Secondary	Logan P.D.
REGION 20 CORES	
Primary	Clearfield P.D.
Secondary	Draper
REGION 30 CORES	
Primary	Salt Lake Public Safety
Secondary	Utah Valley Dispatch
REGION 40 CORES	
Primary	St. George P.D.
Secondary	Richfield Communications



New Site/Tower Builds





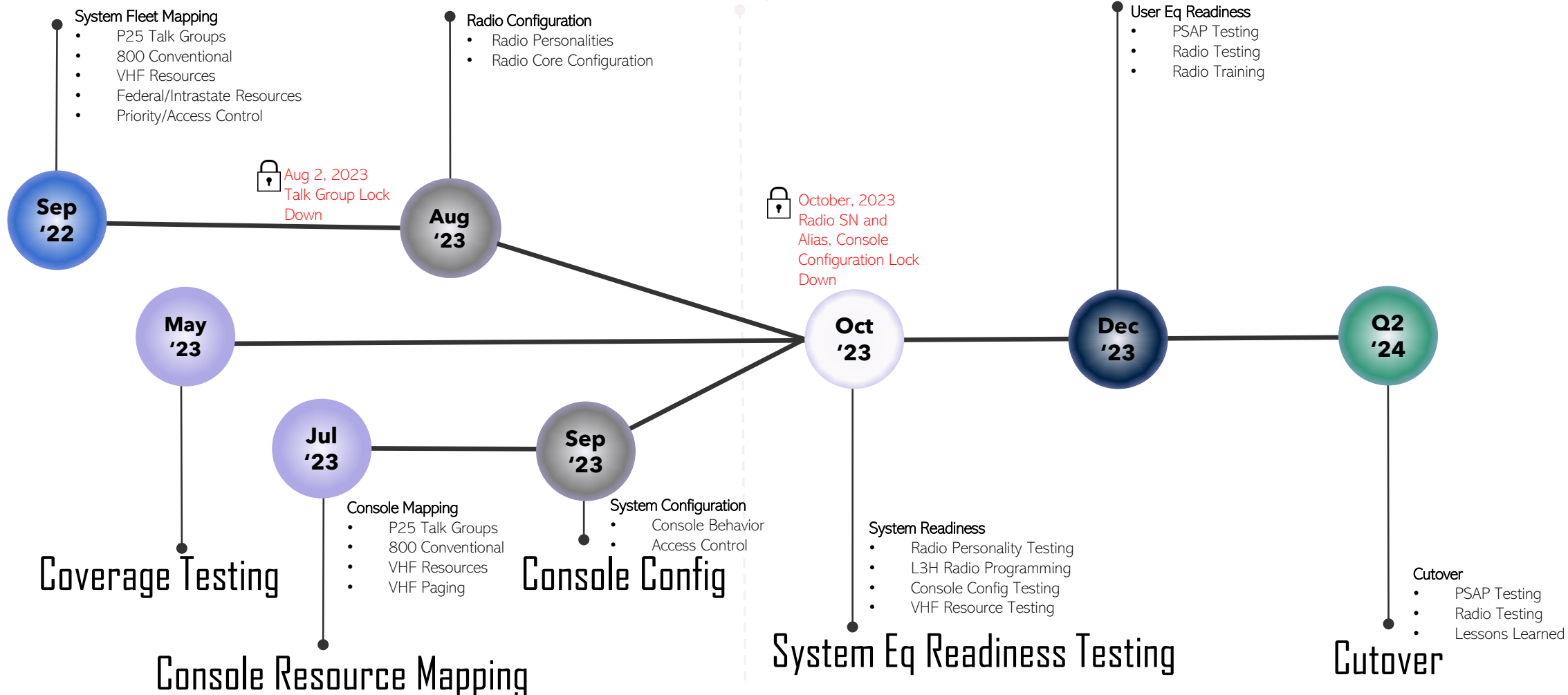
P25 Cutover High-Level Plan

Radio Resource Mapping

Radio Config

Today

User Eq Readiness Testing



Challenges

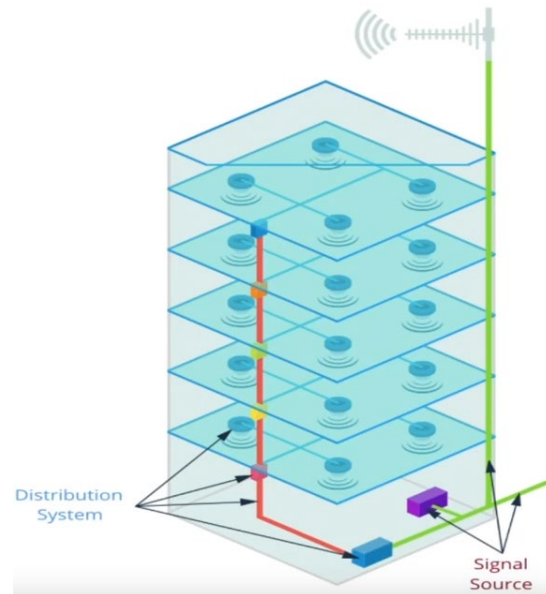


In-building Coverage

SIGNAL STRENGTH IS IMPAIRED BY:



DAS/BDA



Utah Code

- 15A-1-403 - Adoption of State Fire Code

- 15A-5-201 - Statewide Amendments & Additions to International Fire Code Incorporated as part of State Fire Code

PTT Over Broadband LTE and Wi-Fi

Virtual P25 Radio Application

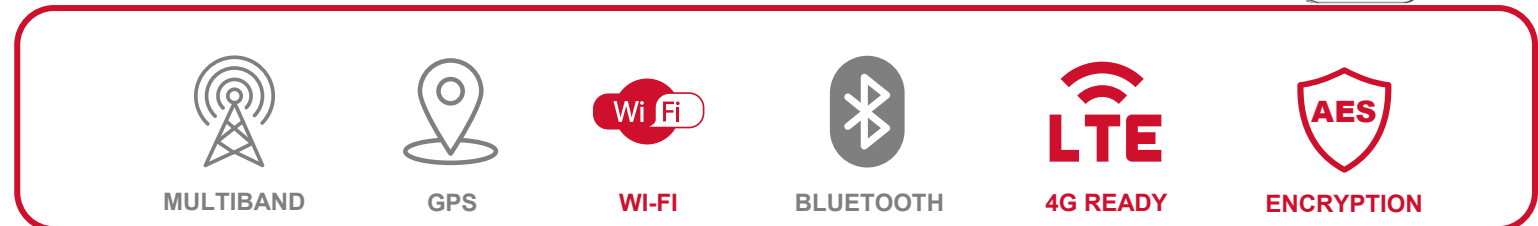
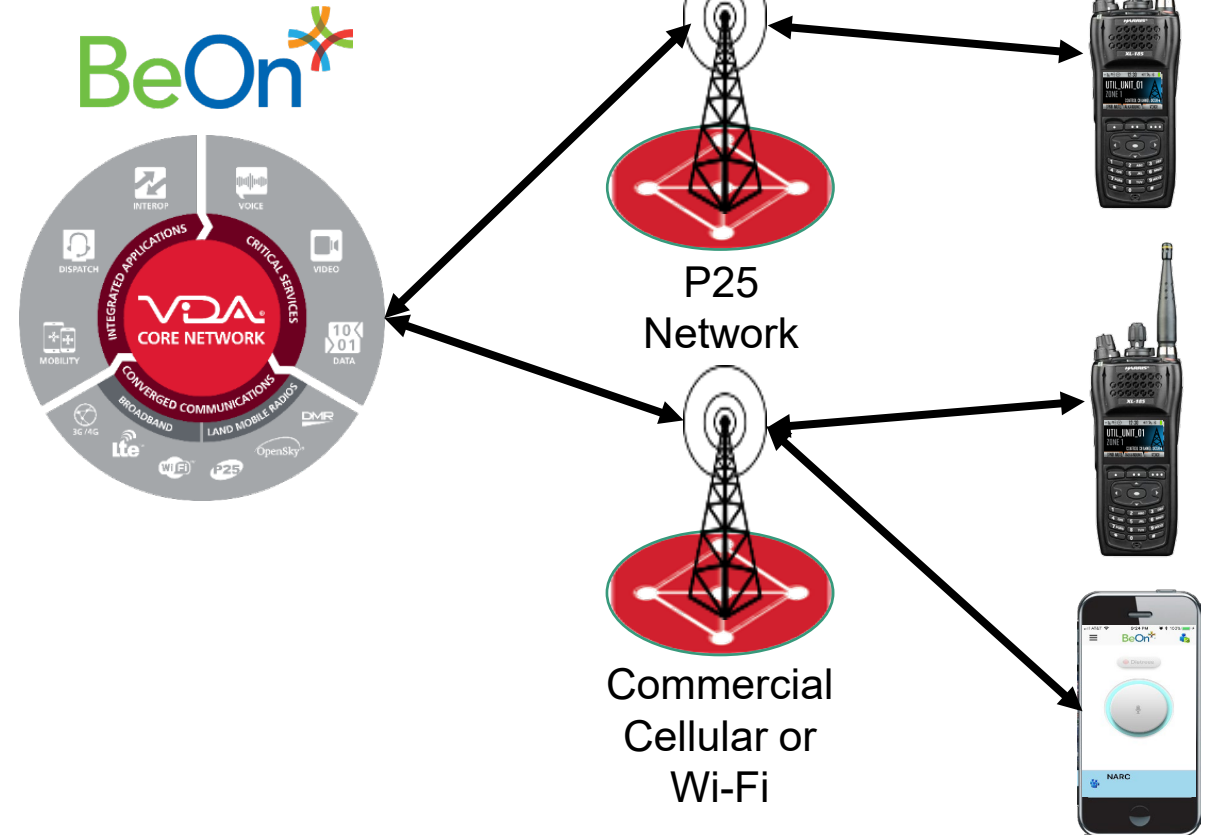
- VoIP based; PTT over LTE & Wi-Fi
- L3H XL platform (Optional Add On)
- Available on Android™, Windows® PC, and iOS™ platforms
- Reduces traffic loading on system
- Supports geographic mapping and utilizes Google® Mapping data

Coverage Enhancement

- Extends coverage outside the traditional LMR footprint
- Economical supplemental coverage
- WiFi in place of BDA's
- PTT encrypted comms between smartphones and XL radios

P25 Based Comms

- End-to-end AES encryption
- Woven into L3Harris system architecture
- IP encapsulated packets
- No reoccurring monthly fees





911 Fee - Past, Present, Future

	LS2017 - SB198	LS2019 - SB154	LS2022 - SB147	Effective Dates re. SB147
Local PSAPs	\$0.71	\$0.71	\$0.73	On January 1, 2025.
Statewide 911	\$0.09	\$0.25	\$0.25	No changes.
UCA O&M	\$0.18	\$0.18	\$0.27	On January 1, 2025 and before July 1, 2033.
P25 Implementation	\$0.34	\$0.34	\$0.00	Before January 1, 2025.
	\$1.32	\$1.48	\$1.25	18.4% Reduction



Utah is the leader throughout the country in public safety communications and interoperability.



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Thank you

