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UTAH COMMUNICATIONS AUTHORITY (UCA)



Radio System Upgrade to new L3Harris P25 System - Project Monthly Report

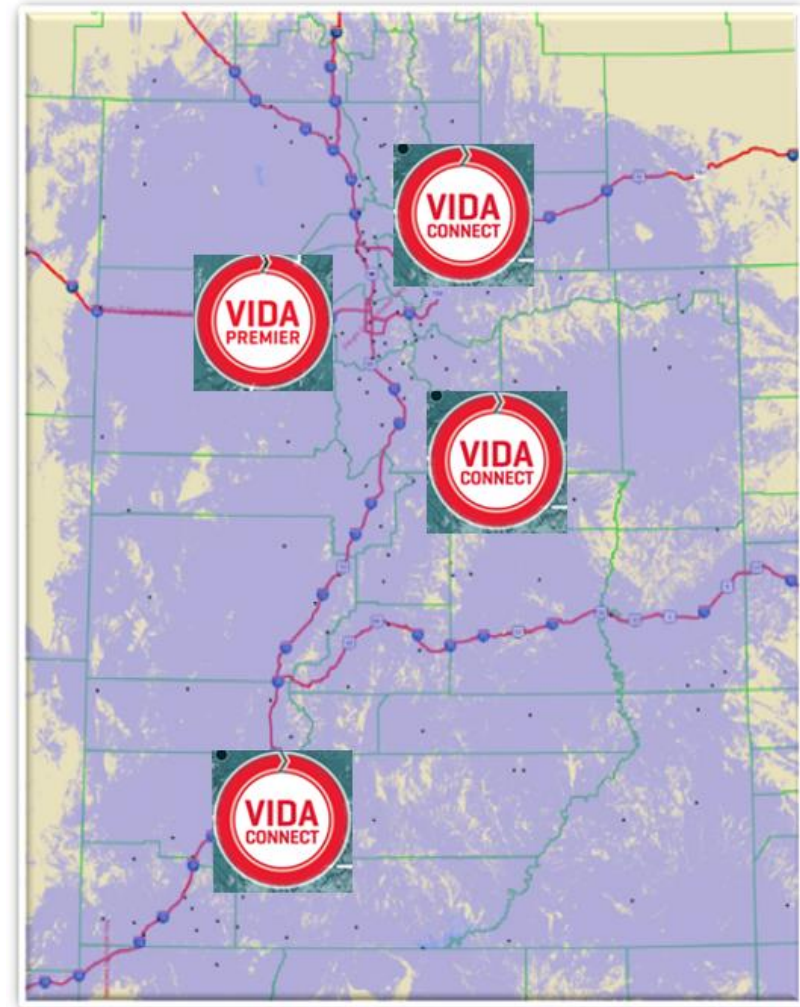
May 18, 2021

Presented By: L3Harris UCA Program Team

1 – UCA Contract Technology Overview



- Design, implement and install P25 Phase-2 IP Trunked System Radio Communications System
- The UCA solution will consist of four (4) IP based VIDA Core Pairs
- 144 MASTR V-based RF sites
- 224 Symphony Dispatch Consoles
 - 221 active + 3 training/spares
 - 560 conventional (4-wire) interfaces
 - 1 centralized voice logging recorder
 - VIDA Interop Gtwys & Encompass Gtwys
- ISSI (Inter Sub System Interface)
- BeOn Gateway Server



2 – Highlights/Recent Status



- Site Grounding
 - Antenna subsystem and site grounding remediation tasks to be combined in field and would be started later this summer. L3H only has 30+ sites left to perform grounding work (this is due to L3H teams continuing work through winter months where weather allowed)
 - L3H submitted antenna subsystem work authorization to UCA for approval in Apr
- Site Remediation (Round 3)
 - CY21 work being planned to start in May (depending on weather/site access)
 - L3H awaiting UCA's approval to start work on the authorization letter submitted
- CFAT (Customer Factory Acceptance Test) #2 – Scheduling
 - 37 additional approved sites for equipment ordering are being built at L3H factory
 - CFAT 2 currently scheduled for Sep, NSCs need to have backhaul connectivity for CFAT to take place in L3H factory
- Antenna Installs
 - Antenna installs started in Apr
 - 12 Sites Completed (through 5/18)
 - Awaiting final site walkthrough for acceptance
- RF Sites Install
 - RF sites delivery from SLC warehouse to final site location started in Apr
 - 15 site equipment delivered (as of 5/7)
 - 3 site installations completed (through 5/18)
 - Awaiting final site walkthrough for acceptance
- NSC Installs
 - Completed, awaiting backhaul readiness for commissioning/acceptance

2 – Highlights/Recent Status.. cont'd



- Design Reviews
 - 106 DDR packages approved by UCA out of first 119 sites
 - Dugway & 11 Solar sites remain + 1 site location changed (Pt. of the Mountain/New Prison) which would require rework & approval
 - Solar sites packages revisited with new formatting and additional info integration, UCA & L3H teams found a path forward in Apr to complete the design needs
 - L3H submitted 2 templates per the revised/final packages layout request and UCA requested additional changes.
 - All additional sites order placement completed, with only Dugway, solar and tower remediation sites now left to be ordered
- Frequency Plan Applications:
 - Freq. applications prepared and submitted by L3H team for first round sites are going through final regional approval phase on UCA's end
 - 2nd round sites Freq application submissions completed by L3H in late Apr with 4 applications needing extra work
- UCA New Fleet Map Approval
 - UCA board approved the new fleet map structure. L3H continuing conversations with UCA system administrator on fleet mapping & talk-group details
- 25 Expansion Sites
 - Schedule needs to be refreshed in light of site construction completion timelines by UCA
 - UCA commenced uploading some site information but L3H waiting for more & all required information to process and prepare for DDR design packages

3 – Upcoming Milestones - Next Quarter Outlook



- May 2021 – Nov 2021
 - Site Remediations & Grounding remediations begin May (weather dependent) and continue till end of Dec
 - Antenna & RF sites install started mid-Apr and would continue till Nov
 - Site by site UCA visits and approvals would be coordinated
 - L3H has site managers and vendors working throughout the state
 - 25 Expansion sites:
 - Some site development info provided to L3H, L3H would need more info & expected site build out dates to start integrating into design packages - following which DDR date could be scheduled
 - Tower Remediation field studies/geo-techs work begins in June/July

- Mid-Late Summer 2021
 - CFAT #2 – being planned around Aug timeframe for 37 RF sites (depends on backhaul readiness at NSC locations)

4 – Schedule Overview



- Original contract: updated schedule put in place in Oct 2020
 - Weekly schedule review meetings with L3H scheduling expert to review task level details and analyze schedule
 - Overall project on track
 - Previously, updated schedule baseline is to be updated in next Amendment or change order
 - UCA working to improve backhaul readiness schedule which needs to be integrated into master schedule
 - Previously, UCA provided solar sites development schedule which was incorporated, however final solar site design packages may change this schedule
 - Previously, UCA provided site remediation schedule (for sites that UCA is working in CY21) which was incorporated

5 – Challenges/Risks



- UCA Backhaul Readiness
 - Unexpected Fiber delays for NSC sites slowing down NSC install acceptance, sites connectivity to cores work and installation acceptance
 - RF sites readiness, RFC tests, MW vendor timelines
 - L3H provided couple of interim work around options for UCA to consider
 - UCA evaluating options and would advise L3H on target backhaul completion date
- SA (Structural Analysis) completion
 - Dugway (USAF & Army) is the last site that remains, formal UCA meeting with all parties held in Mar & Apr to secure permission for new P25 equip install and develop MOA between USAF, Army & UCA
 - L3H provided inputs to UCA which in turn sent a formal letter to Dugway with all details and suggested options to proceed. We are currently awaiting response back from USAF
- 25 Expansion Sites Development
 - UCA has to finish grounding remediation work & any remaining site development work
- Approval from Tower/Shelter Owners – 3rd party co-located sites
 - Getting 3rd party responses/agreements have been a tough challenge from beginning of the project due to non-responsiveness from most of 3rd party owners/managers
 - L3H has been regularly reaching out to involved individuals
 - UCA supported in the past by sending out formal letters on UCA's letterhead

5 – Challenges/Risks – cont'd



- 30+ PSAPs required info collection / Agencies preferences, TG affiliation info etc.
 - L3H Engg. has questions on existing UCA system that need to be clarified/understood to better plan for new P25 system Cutover and migration plans
 - In the past, L3H has been contacting directly each of the individual PSAP location supervisors and would restart the conversation later this year

- COVID-19 Impacts
 - In general, L3H experiencing material lead times which are actively being mitigated
 - During CY21 install phase personnel Covid-19 exposures have to be watched (but with vaccinations becoming available this risk exposure should become limited over summer install phase)

- Onsite meetings
 - Potential health concerns with travel
 - For now, L3H restricted travel advisory in place
 - No onsite monthly meeting with UCA, can resume in near future.