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UTAH COMMUNICATIONS AUTHORITY (UCA)



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

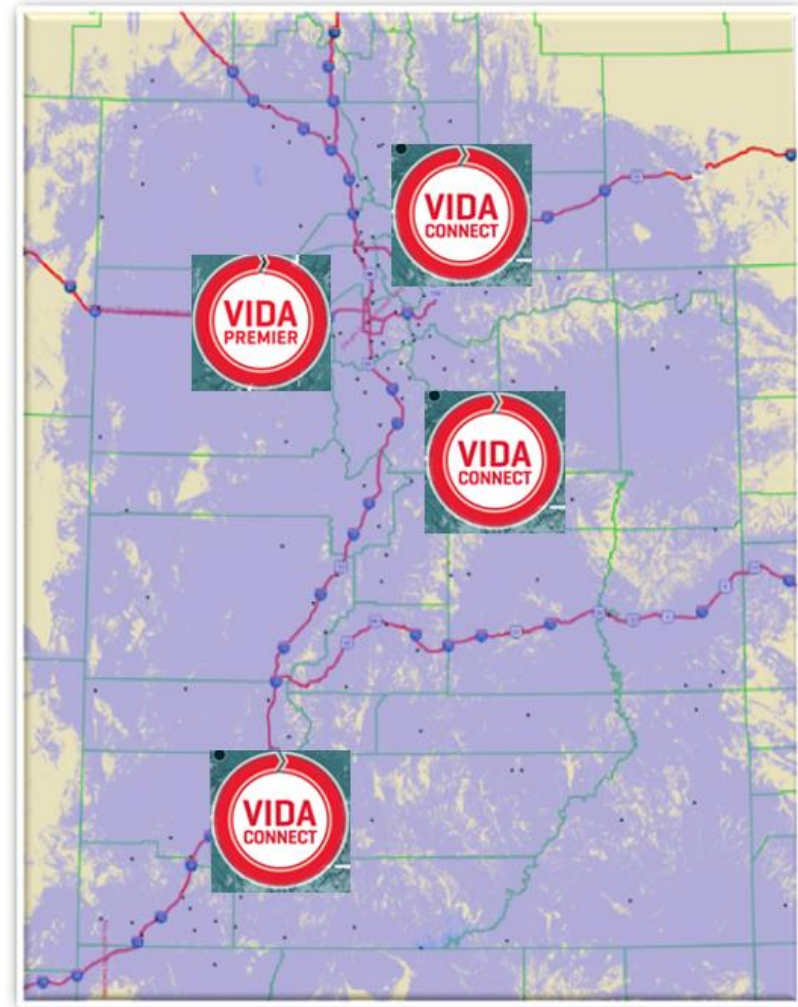
July 20, 2021

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)
 - 7 additional sites completed during the month (through 7/15)
 - 9 out of 10 sites accepted (through 7/15)
- L3H Site Remediation (Round 3)
 - L3H received UCA's formal approval to start work
 - CY21 work started in May by L3H
 - 9 site completed (through 7/15)
 - 1 site visit scheduled & site accepted (through 7/15), remaining site visits to be scheduled
- 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 Nov, NSCs need to have backhaul connectivity for CFAT to take place in L3H factory
- Antenna Installs
 - 17 additional sites completed during the month (through 7/15)
 - Awaiting RF site walkthrough for acceptance
- RF Sites Install
 - 14 additional site installations completed during the month (through 7/15)
 - 6 sites accepted (through 7/15)
- NSC Installs
 - Completed, awaiting backhaul readiness for commissioning/acceptance
 - L3H coordinating Cradlepoint router solution on its own to allow NSC Optimization and CFAT-2 staging tasks to move forward in advance of permanent fiber backhaul solution from UCA

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: Per UCA's request all design packages based on new format submitted by L3H in Jun, these have been reviewed by UCA. UCA is requesting follow up DDR for the packages, L3H proposing 7/22 for design package review
 - 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 resulting in 4 applications being reworked and submitted
- 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



- July 2021 – Dec 2021
 - Site Remediations & Grounding remediations started in May and continue till end of Dec
 - Antenna & RF sites install continue through 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 started in mid-July
- Fall 2021
 - CFAT #2 – being planned around Nov timeframe for 37 RF sites (dependent on backhaul readiness at NSC locations)
 - L3H coordinating Cradlepoint router solution to try to bring in CFAT earlier in schedule

4 – Schedule Overview



- Original contract: updated schedule put in place in Oct 2020
 - To account for 2021 field developments, updated schedule baseline tentatively agreed to by UCA and L3H on July 2nd. The schedule update is being integrated as a Change Order for UCA review and approval
 - Weekly schedule review meetings in progress with L3H scheduling expert to review task level details and analyze schedule
 - Overall project is on track

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 is exploring & implementing Cradlepoint Router solution to allow NSC Optimizations and CFAT 2 staging to be accelerated
 - Cradlepoint router install targeting 7/23 completion
 - NSC Optimization to begin the week of 7/26
- 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

6 – Change Orders



- Schedule baseline update – CO in progress
- Radio aggregation – Draft in progress