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UTAH COMMUNICATIONS AUTHORITY (UCA)



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

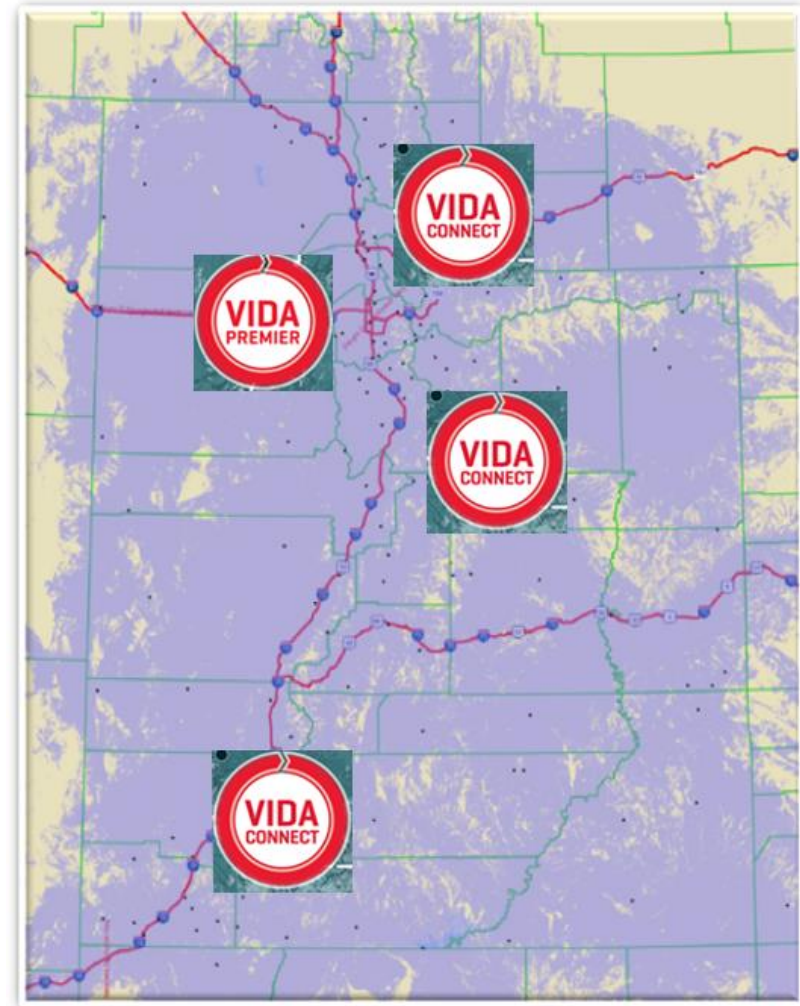
Aug 17, 2021

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 20+ sites left to perform grounding work in 2021
 - 2 additional sites completed during the month (through 8/13)
 - 9 sites accepted (through 8/13)
- L3H Site Remediation
 - CY21 work started in May by L3H to finish 21 total sites remediation work
 - 9 site completed (through 8/13)
 - 4 site accepted (through 8/13)
- 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
 - L3H's interim CradlePoint Router solution in progress that may allow mid-Sept 2021 CFAT 2 dates, potentially
- Antenna Installs
 - 1 additional sites completed during the month (through 8/13)
 - Awaiting RF site walkthrough for acceptance
- RF Sites Install
 - 10 additional site installations completed during the month (through 8/13)
 - Awaiting RF site walkthrough for acceptance
- NSC Installs
 - Completed, awaiting backhaul readiness for commissioning/acceptance
 - 6 out of 8 NSC Site Installations have been accepted during the month (through 8/13)

2 – Highlights/Recent Status.. cont'd



- Design Reviews
 - 106 DDR packages approved by UCA out of first 119 sites
 - Dugway site & 1 site package rework (Shawshank) remain, where site location changed after completed DDR (Pt. of the Mountain)
 - 11 Solar sites packages: CDR3 Completed on 8/2 and awaiting UCA review of updated packages per Punchlist incorporated
 - 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 & second round sites are going through final regional approval phase on UCA's end

- UCA New Fleet Map Approval
 - UCA board approved the new fleet map structure.
 - L3H continuing conversations with UCA system administrator to collect info on new 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



- Aug 2021 – Dec 2021
 - Site Remediations & Grounding remediations started in May and continue till Dec
 - Antenna & RF sites install continue through Nov
 - Site by site UCA visits and approvals being 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 and finishing up in Aug

- Fall 2021
 - CFAT #2 for 37 RF sites
 - L3H coordinating Cradlepoint router interim solution to try to bring in CFAT earlier in schedule by mid Sept
 - UCA expressed concern about build season & need to finish all inspections in time for build season

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



- COVID-19 Impacts
 - Project team members got Covid-19 in Aug which could have a short term impact on schedule, may affect CFAT scheduling
 - During CY21 remaining install phase, personnel Covid-19 exposures have to be monitored
 - In general, L3H and UCA are experiencing long material lead times which are being mitigated as much as possible

- 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 has implemented Cradlepoint Router solution to allow NSC Optimizations and CFAT 2 staging may be accelerated into mid-Sept
 - Cradlepoint router deployment across 8 locations completed in Aug
 - All 8 NSCs up & running on Cradlepoint solution as of early Aug

- 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, L3H requesting UCA to escalate while recognizing approval is L3H responsibility

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 has restarted the conversations
- 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 continue to reach out to involved individuals/parties
- Onsite meetings
 - Potential health concerns with travel
 - For now, UCA & L3H restricted travel advisory in place
 - No onsite monthly meeting with UCA, could resume in the future