



L3HARRIS

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UTAH COMMUNICATIONS AUTHORITY (UCA)

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

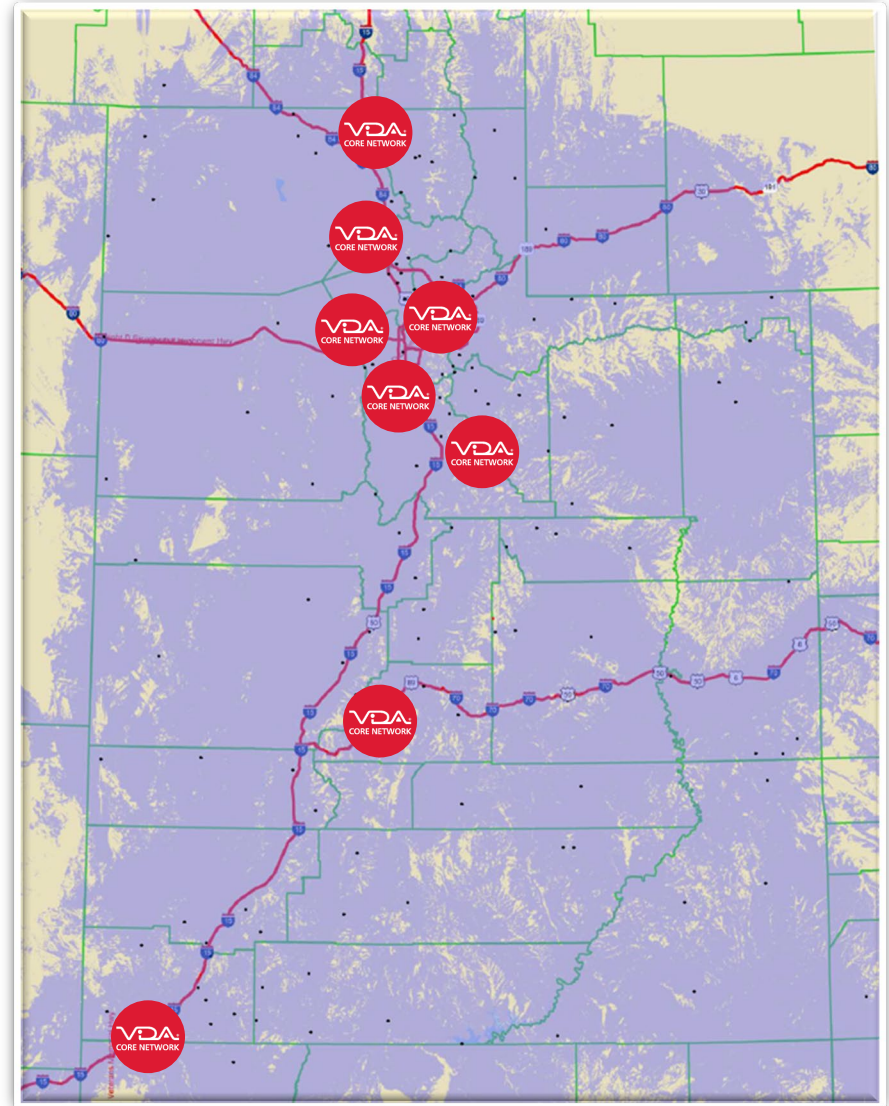
Presented By: L3Harris UCA Program Team

Apr 18, 2023

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
 - 220 active + 4 training/spares
 - 386 conventional (4-wire) interfaces
 - 2 centralized voice logging recorders
 - VIDA Interop Gtwys
- ISSI (Inter Sub System Interface)
- BeOn Gateway Server
- XL-185 and 200 Portable & Mobile radios



2 – Highlights/Recent Status



- L3H Site Grounding as of Apr 13, 2023
 - Sites Completed / Accepted / Total for CY23: 5 / 1 / 8
 - CY23 build season activities would resume in May depending on site accessibility

- UCA Site Grounding as of Apr 13, 2023
 - Sites Completed / Total for CY23: 0 / 2
 - CY23 build season activities would resume in May depending on site accessibility

- L3H Site Non-Grounding Remediation as of Apr 13, 2023
 - Sites Completed / Accepted / Total for CY23: 0 / 0 / 1
 - CY23 build season activities would resume in May depending on site accessibility

- UCA Site Non-Grounding Remediation as of Apr 13, 2023
 - Sites Completed / Total for CY23: 0 / 5
 - CY23 build season activities would resume in May depending on site accessibility

- L3H Antenna Installs as of Apr 13, 2023
 - Sites Completed / Total for CY23: 0 / 6
 - CY23 build season activities would resume in May depending on site accessibility

- L3H RF Sites Install as of Apr 13, 2023
 - Sites Completed / Accepted / Total for CY23: 3 / 0 / 12
 - CY23 build season activities would resume in May depending on site accessibility
 - UCA Warehouse have been added to the total count

2 – Highlights/Recent Status...cont'd



- L3H PSAP Console Installations as of Apr 13, 2023
 - PSAP Consoles Installed / Accepted / Total Consoles: 207 / 163 / 220
 - Region 20 and 30 PSAP consoles installation are completed & accepted
 - Region 10 and 40 PSAP consoles installation are in progress
 - Region 10 has 3 locations and 49 Consoles
 - Region 20 has 9 locations and 66 Consoles - Completed
 - Region 30 has 5 locations and 57 Consoles - Completed
 - Region 40 has 13 locations and 48 Consoles
 - There are 4 additional training consoles for UCA's use

- UCA RF Sites Backhaul Readiness as of Apr 13, 2023
 - Backhaul sites Released to L3H / Total: 110 / 119
 - UCA would continue to work on backhaul in winter months with target to complete all remaining backhaul work till end of Apr 2023

- L3H RF Sites Optimization as of Apr 13, 2023
 - RF Sites Optimized by L3H / Temp Ineligible / Scheduled / Total: 67 / 41 / 2 / 119
 - Build season formally ended for CY22, CY23 activities would resume in May this year

- L3H Tower Remediations as of Apr 13, 2023
 - Sites Completed / Accepted / Total for CY23: 2 / 0 / 2
 - All passing SAs & remediation close out packages shared with UCA for review in CY22, UCA has approved all except 2 towers for which a field visit in summer is planned before providing approval

- UCA Tower Remediations as of Apr 13, 2023
 - Sites Completed / Total for CY23: 0 / 0
 - UCA has provided updated passing SA for Clear Creek and now negotiating the lease agreement with site owner

2 – Highlights/Recent Status.. cont'd



- UCA Radios Fleet Map
 - UCA sent the updated fleet map to relevant agencies and stakeholders for their final feedback before locking in the plan
- Coverage Test Detailed Package Approval & Authorization To Proceed
 - UCA reviewed and approved the detailed documentation furnished by L3H in order to commence field testing starting May
- Interop Gateway Installs Equipment
 - Interop gateway equip installs are continuing in parallel to console equip installs at PSAPs
- Frequency Plan Applications
 - Freq. applications prepared and submitted by L3H team. These are going through final regional approval phase on UCA's end with only one application left to be approved for first 119 RF sites
- 25 Expansion Sites DDR
 - For first 9 sites out of 25, as per previously provided info by UCA, L3H conducted the DDR (Detailed Design Review). The packages are going through punch list items identified and would be resubmitted to UCA for formal approval.
 - Once DDR approval is received from UCA, L3H would place the equip order. Long lead times could be an issue which L3H would look to mitigate
 - For the remaining sites (10-25) out of 25 expansion sites, L3H is looking forward to receiving more info from UCA to conduct more DDRs & finalize the schedule
- Radio orders configuration finalization and deliveries
 - Deliveries continue for first round UCA radio orders (Dec 2022) & second round orders (Feb 2023)
 - UCA is preparing to submit new orders in Apr where order configuration details have been finalized

3 – Upcoming Milestones - Next Quarter Outlook



- Apr 2023 – Jun 2023
 - CY23 Build Season (May – Oct)
 - Build season ended for CY 2022 and would resume in May 2023 depending on site accessibility
 - Tower Remediation
 - All L3H assigned remediation work completed with the exception of one tower for which some additional work would be performed in summer. UCA also intends to inspect another tower remediation work performed before formally approving the work
 - Coverage Testing
 - L3H has received approval from UCA. Work to be performed in summer starting May
 - UCA Backhaul work completion
 - UCA continued working through winter months to complete all remaining backhaul work by Apr end
 - Interop Gateway Installs
 - Equip, installs underway with target completion by end of Apr
 - Provo and Orem Interop Consolidation solution needed from UCA
 - PSAP Console Installs
 - Two regions (20 and 30) completed & accepted as of April
 - Rest of the two (2) regions install underway with target completion by end of Apr, VECC site readiness to be discussed with UCA as it would push out to June
 - 25 Expansion Sites
 - DDR completed in Apr for first 9 sites, equip to be ordered next
 - Radio Orders #3 from UCA (expected in Apr) and deliveries by L3H from Round #1 & 2 placed orders
 - Round #1 (Dec orders) deliveries underway and making good progress
 - Round #2 (Feb orders) deliveries started

4 – Schedule Overview



- Original contract: updated schedule put in place in Dec 2020
 - To account for 2022-23 field developments, updated backhaul completion dates and follow-on optimization work completion, forecast dates have been updated
 - Following updated schedule review and approval by UCA, updated forecast dates were integrated in the schedule and it became effective in Dec 2022 via contract amendment
 - Weekly schedule review meetings in progress with L3H scheduling expert to review task level details and analyze overall schedule
 - Overall project is on track

5 – Implementation items to monitor



- UCA Backhaul Readiness
 - RF sites readiness, RFC tests, MW vendor timelines
 - UCA progressing on RF sites backhaul readiness through winter months
 - UCA backhaul target completion dates have been updated, new target completion date for all remaining backhaul would be Apr end 2023.
 - This risk should go away by May assuming all backhaul work gets completed
 - Site Optimization & Drive Test in parallel for 2023
 - Site optimization, Coverage test & system software refresh window would overlap for a while during next summer which would require detailed field tasks planning & execution from L3H
 - This risk should go away with planning put in place and by mid summer when optimization wraps up
 - Approval from Tower/Shelter Owners – 3rd party co-located sites
 - Getting 3rd party responses/agreements in general have been a tough challenge from beginning of the project due to non-responsiveness from most of 3rd party owners/managers. As of now last couple of sites remain for which install approval needs to be secured (Clear Creek, American Fork)
 - This risk would be mitigated once approvals are secured by May
 - 25 Expansion Sites Development / Site Civils Completion
 - UCA continues to work on site acquisition and site development. Since overall site development schedule for remaining sites (10-25) is not known yet so challenges remains for downstream integration & follow up tasks in late 2023/24
 - UCA advised that expansion sites effort is lower priority for them than the 119 original sites when it comes to migration and should not impact migration
- Radio orders configuration finalization in time to meet delivery schedule before year end
 - Equip lead time challenges
- Snow Melt/Flooding
 - With unprecedented snow in UT this past winter flooding and site accessibility would be a concern

6 – Change Orders/Amendments



- Recently Completed
 - Amendment #9 (Dec 2022)
 - Radios Order
 - Change Order #5 (Jan 2023)
 - Terms governing use of L3H P25 site for Utah demos
 - Change Order #6 (Mar 2023)
 - Reconciliation of December 2022 state radio order configurations

- Currently Active
 - None