



CALVERT COUNTY MARYLAND

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PROJECT TIMEFRAME:

2013 - present



PROJECT DESCRIPTION:

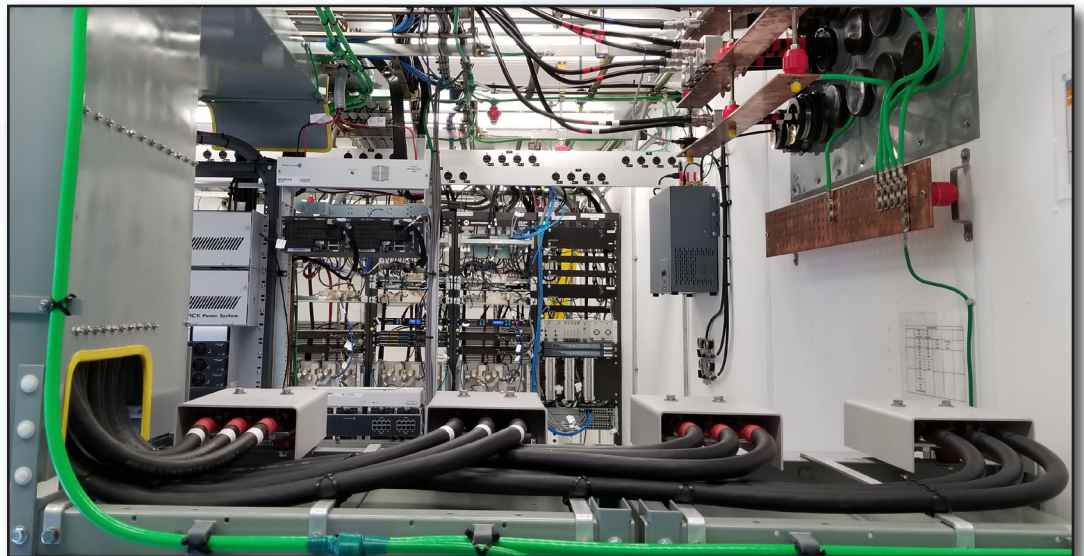
NextGen P25 System Design, Procurement and Implementation, Deployment, Certifications and Acceptance / Planning and Zoning Support

- 15-site, 10-channel 800MHz Motorola APCO Project 25 Phase 2, dual-mode FDMA/TDMA simulcast trunked radio system
- 15-site, 5-channel 800MHz Conventional simulcast system, consisting of the national mutual aid channels
- 10-site VHF fire-station alerting and voice paging system

In 2013, Altairis was awarded a contract to assist the County with the replacement of their 1997-vintage trunked radio system with a NextGen P25 System. Altairis was instrumental in helping to diagnose and resolve a system crippling trunking controller issue that kept the existing system functional until the new system was commissioned. Altairis completed a detailed assessment and conceptual design, developed custom technical specifications, facilitated a competitive procurement process and is currently providing implementation management services for the installation of the following network elements:

NOTABLE PROJECT FEATURES INCLUDE:

- Enhanced Data
- Integrated Voice & Data
- GPS AVL & APL
- OTAP via P25 & Wi-Fi
- Motorola Wave/Critical Connect
- Redundant, Geographically Diverse P25 Cores
- Redundant Distributed Simulcast Prime Sites
- 95% Coverage Guarantee, incl. critical buildings
- Microwave loop/fiber hybrid backhaul designed to provide 99.9999% availability
- 20-year life-cycle system maintenance
- PM & life-cycle upgrades
- Remote site video surveillance and remote shelter access control





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MARYLAND

The procurement process resulted in a complete turnkey project with a price tag significantly less than budget allocations. Altairis provided detailed Quality Assurance/Quality Control for the deployment of nine new greenfield tower sites as well as several co-locations on water tank structures.

Below is a short summary of highlighted services and outcomes for the project.

HIGHLIGHTED SERVICES:	HIGHLIGHTED OUTCOMES:
Adherence to strict coverage specifications and coverage prediction analysis	<ul style="list-style-type: none"> Insured the proper number of RF sites were provided by the vendor in order to attain the targeted radio coverage specification
Coverage design analysis	<ul style="list-style-type: none"> Efficient use of County and commercial assets such as building rooftops, water tanks, towers and power utility structures
Detailed Quality Assurance/Quality Control for the deployment of new greenfield tower sites as well as several co-locations on water tank structures	<ul style="list-style-type: none"> A complete turnkey project with a price tag significantly less than budget allocations
Assisting with commercial cellular carriers collocations on County's newly constructed towers	<ul style="list-style-type: none"> Additional revenue streams for the County to offset the costs for radio system operations and maintenance
Assisting the County Planning & Zoning Department in modifications to its Ordinance	<ul style="list-style-type: none"> Minimizing the number of towers required in the County as well as protecting Public Safety communications systems
Assisting the County with the development of alternative stealthy structures such as flagpoles and artificial trees	<ul style="list-style-type: none"> Protection of landscape esthetics and negative impacts to viewshed
Development of ordinance compliance for special 5G small cell technology deployments on County-owned land and rights-of-way	<ul style="list-style-type: none"> Efficient expansion of commercial wireless technologies throughout their jurisdiction
Ensuring compliance with FCC regulations on RF Radiation Safety and interference to critical communications	<ul style="list-style-type: none"> Health and safety compliance Identification and mitigation of several incidents of destructive interference
Continued assistance to the County with ongoing system management, including the review and oversight of system updates and technology platform upgrades	<ul style="list-style-type: none"> Continuation of all features and functionality throughout technology upgrades over the life of the system



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