

PUBLIC SAFETY

ALTAIRIS EXPERTISE APPLIED IN THE PUBLIC SAFETY ENVIRONMENT

Altairis Technology Partners focuses on challenges related to applications of wireless communications technologies. We cover the full spectrum of the technology lifecycle, from conducting initial assessments, architecting system designs, facilitating sourcing processes, managing implementations, and providing post-implementation system management services.

Altairis Technology Partners specializes in the engineering of wireless networks. Our team members are seasoned industry experts, most with 20+ years of knowledge and experience. We are known for our exacting attention to detail, with a depth and breadth of resources our clients seek. We are proud of our vendor independence and our ability to foster long-term partnerships with each of our clients. We are large enough to deliver and small enough to care.

Research of an Agency's Communications Needs

Altairis experts will conduct needs assessment including voice, data and video. As a first step, the team will evaluate the abilities of the existing networks to deliver optimal performance, cost, reliability, capacity, and other relevant criteria. Altairis will then perform analysis of the gaps between current and anticipated future needs and the capabilities of the current systems. Finally, Altairis will provide recommendations for enhancement or replacement of the existing systems.

Wireline and Wireless Networks Technical Assessment

Altairis experts will evaluate the status of existing networks including: installation, maintenance, and capability to perform to specifications.

Wireless Architecture Design and System Applications Assessment

When a new system is needed, Altairis experts will develop alternative system architecture/technology concepts including P25, analog, conventional, trunked, multisite, simulcast and broadband network designs and specifications, including coverage and capacity modeling, backhaul design and budgetary estimates.

Sourcing Process Management and Project Management Office (PMO) Services

Altairis experts will develop technical specifications and RFX procurement documents and will facilitate vendor contract negotiations. Altairis will then manage the sourcing process including: assistance with selecting hardware, software and verified service providers. We will act as needed in the roles of a Project Manager, Owner's Agent/Engineer, or Subject Matter Expert. We will also provide site development services including: specification development, zoning/ permitting assistance, third-party facility co-location lease negotiations and construction supervision.

Post-Implementation System Management Services

Altairis experts develop and provide administration of vendor system management, maintenance and support procedures and contracts. This may include negotiation and management of upgrade agreements. Our experts will provide an ongoing technical review to support general system management and optimization, system upgrade services, system expansion and interference analysis. For example, our experts will perform an analysis of existing coverage and performance issues. From the data we collect, Altairis will develop solutions for in-building coverage programs.

Wireless Broadband Feasibility Evaluation

Is a private or public broadband wireless network the right solution for you? That answer depends on many factors. Altairis experts will evaluate the ability of LTE (4G) or 5G to meet your communications needs and identify additional benefits of the potential solutions. Altairis will then formulate high-level functional, technical and other requirements that are appropriate for your needs. Altairis will provide recommendations for optimal implementation of features requiring data transmission.



CAPABILITIES FOR PUBLIC SAFETY

*Regardless of the nature of
your wireless systems'
challenges, you can trust
our hundreds of years of
combined experience
to address them.
Whether you need a
new wireless network
or just help with making
your existing network meet
your current needs,
we are here to help you.*

SYSTEM ASSESSMENT

- Technology Assessment
- Technology/Financial Modeling
- Sensitivity Analysis

SYSTEM PROCUREMENT

- Sourcing/Procurement Specification & Evaluation
- Contract Negotiation & Dispute Resolution

SYSTEM IMPLEMENTATION AND PMO SERVICES

- Comprehensive Technical PMO Services
- Detailed Design Review
- Contract Compliance Management
- Vendor Oversight & Supervision
- Acceptance Testing
- Punchlist Management

MAINTENANCE AND SUPPORT SERVICES

- System Performance Analysis/Optimization/Testing/Troubleshooting
- System Augmentation/Expansion
- Continuity of Operations/Disaster Preparedness Planning
- Contract Management
- System Management

REGULATORY AND SPECTRUM MANAGEMENT

- Spectrum Management
- New Frequency Search
- Channel Planning
- FCC Contour Development & Analysis
- FCC Technical Waivers
- Wireless Regulatory, Zoning & Site Acquisition
- RF Interference Investigation

ENGINEERING DESIGN AND PLANNING

- System Design, Integration & Testing
- Coverage Design & Testing
- Product Development
- Communications Facility & Tower Site Development
- Communication Centers
- Voice Recording Systems
- Network/Fault Management
- Interoperability Switch Systems
- Dispatch Design
- Regional Interoperability Planning & Coordination
- Network Security
- 3rd Party Vendor Integration
- Communications Site Management & Co-Location
- Service Delivery Negotiation, Management & Implementation

SYSTEM MANAGEMENT

- General Management
- Process Improvement
- Technical Leadership
- Lifecycle Management

TECHNOLOGIES

- Wireless & Wireline Telephony Systems
- Microwave/Wireless Backhaul Networks
- Mobile Data Systems
- Satellite Communication
- BDA/DAS/Neutral Host Systems
- Security Systems
- CAD Systems
- 9-1-1
- Network Monitoring

WIRELESS TECHNOLOGIES

- APCO Project 25
- VHF, UHF, 700-800-900 MHz LMR
- Digital & Analog
- Trunked & Conventional
- Simulcast & Multicast
- LTE (4G) & 5G
- Proprietary & Legacy Wireless Technologies

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