

Wireless Network Infrastructure

END-TO-END WIRELESS NETWORK
DESIGN AND IMPLEMENTATION



CACI is an expert provider of network integration services and technologies for fixed radio sites supporting critical law enforcement operations. Our wireless expertise and technology capabilities include full system integration, radio frequency (RF) modeling, solution design, program management, deployment planning, provisioning, testing, and training.

Our team has deep experience with and understanding of RF technologies, and our engineering expertise helps solve complex problems for customers and their mission critical networks. CACI's long history of integrating and managing complex U.S Government law enforcement networks and communications programs – to include fixed wireless solutions, advanced telecommunications, and data networks – assures fully compliant, secure, and high-functioning mission critical networks for our customers.

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For more information about our solutions, products, and services, visit:
www.caci.com

A *Fortune* World's Most Admired Company

EXPERTISE AND TECHNOLOGY FOR NATIONAL SECURITY

CACI
EVER VIGILANT

Features

- Network design and architecture, to include site survey, RF modeling and planning
- Full, turn-key solutions
- System integration services
- Wireless mesh networks and cellular technology
- Vendor and technology agnostic
- Flexible delivery modes

Benefits

- We provide complete full system integration services, including RF modeling, solution design, program management, and deployment planning, provisioning, testing, and training
- Our flexible deployment process rapidly responds to programmatic and environmental challenges for customers, such as natural disasters or pandemic-affected operations

Case Study - Point to Multi-Point Network Deployment

CACI provided network integration services for fixed radio sites supporting a U.S. Government customer's operations. Our team successfully supported a deployment that featured 15 DTC NETNode Robust Tri-Band radios across four sites that supplied rapidly deployable wireless over a customer-defined 200 square mile area. This deployment also featured:

- Infrastructure nodes supporting DTC NetNode2x2W-5RMT (Robust Tri-Band) radios for rapidly deployable wireless Ethernet transport
- Carrier class U.S. Government X-band microwave equipment that provided the Ethernet backhaul network in a linear, single-hop hub and spoke design
- The installation of a radio management and support server
- Expert system validation and detailed coverage testing

Deep Expertise in Reliable and Secure Land Mobile Radio (LMR) Networks

CACI supports over 20,000 U.S. Government personnel throughout the United States and overseas territories, providing interoperable, encrypted wireless communications systems engineered and maintained for round-the-clock mission operations. Our team sustains a network that can support standard operations, major incidents, disaster communications, and can scale to support additional users.

Custom Capabilities for Critical Missions

CACI also develops custom RF and network integration capabilities that facilitate and secure vital U.S. Government missions. Using tools such as zero trust architecture and Commercial Solutions for Classified (CSfC) capabilities, we provide robust, secure systems that address complex missions. Our **Spectral Vision** capability uses artificial intelligence-based optimization to dynamically and autonomously manage spectrum and network resources, and ensure quality-of-service for mission-critical communications in congested and contested spectrum environments. Spectral Vision delivers frequency-agile operation in multiple bands, and persistent robust wireless connection with immediate communication anytime and anywhere.

- Real time situational awareness of the electromagnetic spectrum (EMS) and efficient evasive response. Spectral Vision features autonomous classification, identification, localization, and response to emitters in the EMS.
- Provides resilient communications with automated, optimized dynamic spectrum management while ensuring low probability of intercept/low probability of detection in support of radio access network operations.

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-10. (PR ID330)



EXPERTISE AND TECHNOLOGY
FOR NATIONAL SECURITY

CACI's approximately 23,000 talented employees are vigilant in providing the unique expertise and distinctive technology that address our customers' greatest enterprise and mission challenges. Our culture of good character, innovation, and excellence drives our success and earns us recognition as a *Fortune* World's Most Admired Company. As a member of the *Fortune* 500 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index, we consistently deliver strong shareholder value. Visit us at www.caci.com.

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