

## Case Study: Telos Revolutionizes Connectivity at Travis Air Force Base

### Project Highlights:

- Design, install, and operate a private cellular network on Travis AFB flight line
- Leverage CBRS spectrum access to increase mission coverage and network reliability
- Deliver 4G LTE evolved packet core with SIM authentication
- Install high-capacity radio access network upgradable to 5G
- Deliver secure network design with advanced cybersecurity
- Create complete risk management framework (RMF) package
- Perform customer support, system monitoring, and maintenance

### The Challenge: Inadequate Spectrum Coverage Hampering Air Force Flight Line Operations

Flight line communications is a vital capability for the United States Air Force, which relies on technology to enable all aspects of its operational mission. Mission-critical applications across every area—including maintenance, scheduling, logistics, personnel, and security—ensure seamless coordination and rapid response capabilities critical to safeguarding our national security. However, due to geographical, size, or regional considerations, many Air Force bases struggle with inadequate spectrum coverage, impacting their operational efficiency and mission readiness.

The adoption of the Citizens Broadband Radio Service (CBRS) private spectrum addresses such challenges. Through CBRS, airmen on the flightline connect securely to necessary data and applications to perform their missions.

### The Solution: Telos Delivers a Cutting-Edge Private Wireless Network Tailored to Air Force Requirements

In a landmark project at Travis Air Force Base (AFB), Telos has engineered a cutting-edge private wireless network leveraging HPE Aruba's private cellular solution and CBRS, setting new standards for military

operational efficiency, network reliability, and communication security. This pioneering initiative was designed to support the unique requirements of the MXG flight line, enhancing the agility and responsiveness of Air Force operations.

Additionally, the Telos team performed all security configurations/lockdowns and developed NIST-compliant RMF artifacts. These artifacts can be used as a starting point for future Telos customers to reduce timelines related to development and RMF compliance. Such artifacts might also be leveraged to support a stand-alone 4G/5G authority to operate (ATO) or to facilitate the incorporation of 4G/5G capabilities under a pre-existing enterprise ATO.

### Key Project Features:

**Comprehensive Coverage:** The network spans the entire flight line, including the hot load ramp, ensuring maintainers can access critical network resources and perform tasks efficiently anywhere on the flight line.

**High-Speed Connectivity:** With robust private cellular connectivity providing upwards of 200Mbps download speeds and state-of-the-art equipment, the network delivers unparalleled and fully customizable uplink and downlink performance, catering to the demanding needs of flight line operations.

**Advanced Network Design:** Tailored to meet the flight line's specific requirements, the network design incorporates HPE Aruba's leading-edge cellular technology (4G LTE), offering scalable solutions for future expansion and technological advancements.

**Enhanced Security:** The network implements rigorous security measures, including encryption protocols, authentication mechanisms, and access control policies, therefore providing a fortified environment against potential cyber threats.

**Spectrum Efficiency:** Telos has ensured optimal utilization of available frequencies, maintaining high-performance standards without interference by navigating complex spectrum access challenges.

## Project Benefits:

**Operational Efficiency:** The network significantly enhances data transfer speeds and communication reliability, enabling swift decision-making and operational agility on the flight line.

**Improved Maintenance Operations:** Access to maintenance platforms and applications is streamlined, improving the effectiveness and efficiency of maintenance tasks.

**Reliable Security:** The deployment of comprehensive security and authentication measures safeguards sensitive information and ensures network integrity against cyber threats.

**Future-Ready Infrastructure:** The network's scalable design and advanced technology pave the way for future advancements, ensuring the Travis AFB remains at the forefront of military technology.

Through meticulous planning, innovative technology, and a commitment to excellence, Telos is delivering a private wireless network that not only meets today's demanding requirements but also sets the stage for future innovations. This project underscores our dedication to enhancing military capabilities and operational readiness, marking a significant milestone in secure military communications.

## About Telos

Telos is a recognized leader in Cyber Security and Risk Management Framework (RMF) implementation and is the security team of record for thousands of Authority-to-Operate (ATO) projects across the Department of Defense (DOD). Xacta® from Telos is an IT and cyber risk management platform designed to help you meet the complex challenges of managing IT and cyber risk with intelligent workflow, automated control selection and assessment, and continuous compliance monitoring. Telos has 30+ years of experience developing, delivering, and operating mission-critical solutions in support of national defense missions including numerous large-scale unified communications, campus wireless, and base-wide network infrastructure projects. Our expertise encompasses advanced engineering, in-depth cybersecurity support, management of installation teams and subcontractors, fiscal oversight, proficient project management, and adept scheduling across multiple OCONUS base projects.

Recent engagements include Enterprise Non-classified Internet Protocol Router Network (NIPRNet) wireless local-area network (WLAN) and Network Access Control at 165 USAF bases worldwide, including Andersen AB Guam, and voice-over-IP (VoIP) design and implementation at every US Army site across seven landmasses in the Pacific Rim.

## Doing Business with Telos

- Telos GSA Schedule GS-35F-162DA
- Telos ID GSA Schedule GS-35F-0035V
- 2GIT 47QTCA21A0008 BPA
- Alliant 2 47QTCK18D0035 | IDIQ
- ITES-3H W52P1J-16-D-0006

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