CACI Secure LTE Cellular Networks
Secure, Seamless Connectivity to the Tactical Edge

CACI’s 4G LTE cellular system delivers tactical, secure wireless connectivity for U.S. military 4G LTE networks. This LTE system provides a single, integrated capability for outdoor private cellular networks with an easy-to-use network management tool that enhances connectivity and security. Our 4G LTE system employs heterogeneous cellular networks (HetNet), a mixture of small- to wide-range LTE and Wi-Fi that connects multiple devices with different operating systems and protocols, to provide a National Security Agency (NSA) Commercial Solutions for Classified (CSfC)-approved voice, data, and video encrypted network solution. CACI’s system supports automatic, seamless handoff between HetNet wireless networks while maintaining secure connection for all mobile devices.

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Visit us online for more information about our Secure Mobility Solution:
www.caci.com/communications/capabilities.shtml
The 4W eNodeB offers a compact 4G LTE base station that can be managed by CACI’s Network Management system.

**LTE and Network Management Systems**

The 4W Evolved Node B (eNodeB) is one of CACI’s 4G LTE base stations, with a compact size that makes it ideal for antenna mast and vehicle mounted deployments. It houses digital baseband and Radio Frequency (RF) components in a compact and ruggedized chassis. The 4W eNodeB is quick, easy to install and operate, and can be locally or remotely managed with CACI’s Network Management system, which is designed for tactical wireless network monitoring and control.

All system components are secured by the CACI Mobility Management System (CMM). The CMM uses only NSA-approved commercial networking components, providing U.S. government users a Secret-approved 4G LTE network.

**3rd Generation Partnership Project (3GPP) Standards Compliant**

This eNodeB complies with global 3GPP LTE standards to ensure interoperability with 3GPP compliant commercial smartphones and tablet PCs.

**Frequency Agile**

The 4W eNodeB supports multiple RF frequencies that are capable of being quickly changed, enabling tactical and mobile deployments to tune the eNodeB to the most interference-free LTE frequency.

**Interference Mitigation**

The 4W eNodeB employs RF-based technology and advanced algorithms to avoid interference with LTE broad-coverage macrocells. This ability also allows the 4W eNodeB to respond to deliberate interference or jamming attempts.

**Location-Based Services**

CACI has developed an Android app that accurately locates a CSfC-approved Android smartphone connected to a CACI LTE base station. This app utilizes the CMM to securely provide “Blue Force” tracking, giving commanders and troops GPS force location information.

**Network Management**

CACI has designed a network management system for monitoring and control of 4G LTE networks. This system yields a complete performance picture of all wireless software and hardware networking components, and enables troubleshooting without compromising performance and security.

**CSfC Standards Compliant**

CACI is a NSA Trusted Integrator under their CSfC program. CACI has designed the CMM to incorporate NSA capability packages enabling users to seamlessly roam between Wi-Fi and 4G LTE networks at the Secret-approved classified level using CSfC approved commercial smartphones and tablet PCs.

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**Highlights:**

- Outdoor stationary and mobile 4G LTE cellular networks
- Support for up to 256 simultaneous users
- Mix of macro, pico, small cellular, and Wi-Fi networks
- Support for location-based services (Blue Force Tracking)
- Network management – monitoring and control
- CSfC-approved hardware and software networking components

**Benefits:**

- Increases the flow of information to the tactical edge
- Enables a comprehensive, up-to-date common operating picture for faster, more informed mission execution
- Reduces training time and simplifies network setup and ease of operation for troops in the field
- Uninterrupted, secure connectivity to tactical and strategic networks
- Increases operational efficiency at reduced cost
- Size, weight, and power (SWaP) optimized