NetGo™
Quickly Deployable Private LTE Networks

Secure, reliable networks are critical to successful government and commercial operations around the world. Whether your operations exist in a remote location or your existing communications infrastructure has been compromised by a natural disaster, terrorist attack, or armed conflict, CACI’s NetGo ensures the connectivity and security of your cellular network won't be interrupted.

A quickly deployable and completely private cellular network system, NetGo’s long-term evolution (LTE) “network in a box” enables secure, high-bandwidth communications anytime, anywhere – regardless of the state of existing telecommunications infrastructure. NetGo is a man-portable system, and can be set up in minutes with minimal training. By simply switching a subscriber identity module (SIM) card on any modern mobile device for an NetGo SIM card, our system provides a fully controllable network that can reach up to a kilometer away.

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For more information about our solutions, products, and services, visit: www.caci.com
CACI’s portable NetGo cellular communication system eliminates the need for extensive cellular expertise for setup and administration of a network. A simplified LTE configuration and NetGo SIM card provisioning means that a secure network can be configured in very little time through an easy-to-use, on-device portal. Simply connect a laptop to the Ethernet port on the NetGo box, and the user is guided through a secure system configuration process that includes SIM card programming.

The NetGo administrator can decide both the size of the network range and who can register on it. NetGo’s sensors will automatically listen to the surrounding RF environment and choose the quietest channel for optimized operations.

NetGo features a complete LTE network inside of a 310 x 310 x 101 mm environmentally-certified enclosure, with numerous optimized features:

- Two by two multiple input multiple output (MIMO) 3GPP Release 14 eNodeB
- A field-programmable network with six common global LTE frequency division duplex (FDD) bands: LTE Bands 1, 2, 3, 5, 7, and 8
- Transmitter output power of 30 dBm per antenna port (two on each system)
- Maximum bandwidth of 20 MHz, resulting in up to 150 Mbps downlink and 50 Mbps uplink to each of 32 end user devices
- Operating temperature range of 0-45 degrees Celsius in an IP67 enclosure
- 12 volt DC power
- Evolved packet core (EPC), running on a low-power single board computer

NetGo’s Consolidated LTE Network-in-a-Box

A full LTE network deployment requires several components and elements, such as an EPC to provide the home subscriber system (HSS), a mobility management entity (MME), a policy and charging rules function (PCRF), a serving gateway (S-GW), and a packet gateway (P-GW).

The diagram below shows how these components in a 4G LTE private network are all consolidated in the compact and portable NetGo network system.