

Network Guard 5G

Rogue cellular base station detection

World-class situational awareness of cellular communication surveillance, interception, and attacks

No special authorities required to operate



CACI's **Network Guard 5G** offers a robust capability to passively detect and combat active cellular network monitoring and interception. Network Guard's real-time data correlation and analytics engine rapidly identifies and alerts on cellular radio frequency attacks on GSM, WCDMA, CDMA-2000 and LTE networks. Network Guard is able to detect attacks from simple DIY-built IMSI catchers to the most sophisticated nation-state developed interception systems.

Network Guard provides real-time survey, decoding, and analysis for 2G, 3G, 4G, and 5G NR radio access technologies, offering advanced detection and automated alerts for rogue base stations and cellular exploitation devices. By leveraging edge computing, it delivers significant speed and performance improvements over the previous NG4/NG5 versions, particularly in 5G NR analysis. Network Guard can function as a stand-alone device or be networked with other sensor types for command and control operations and cellular network overlay, enhancing overall situational awareness.

For more information, or to purchase contact:
(410) 579-1300
csw-sales@caci.com

For more information about our expertise and technology, visit:
www.caci.com/spectrum-monitoring

Who needs Network Guard

Vulnerable targets include:

- Government facilities, embassies, and military bases
- Corporate enterprises, financial institutions, and law firms
- Sensitive field and law enforcement operations
- Critical infrastructure

What Network Guard detects

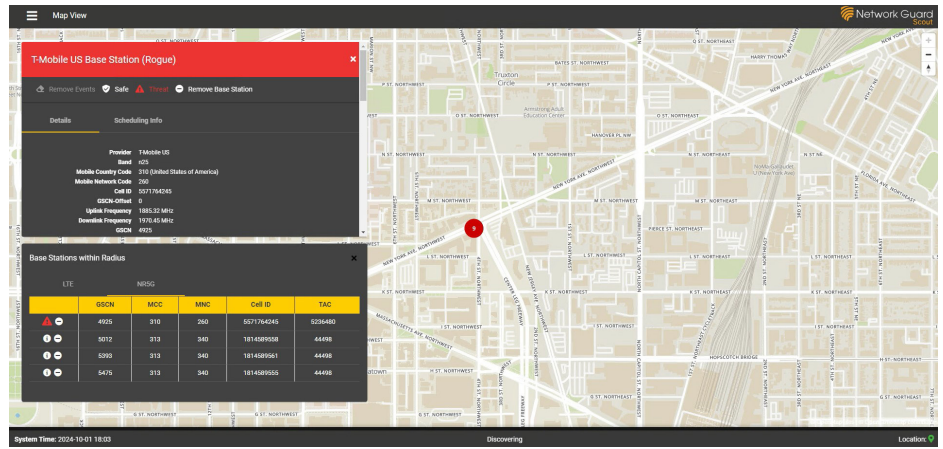
- All types of cellular network surveillance (active, semi-active, and infrastructure) and hacking where bad actors can manipulate numerous variables to exploit mobile communications
- How cellular network surveillance equipment attempts to exploit the official mobile networks

Integration

- Integrated with Resource Manager 2 software, which offers direct monitoring, configuration, and tasking as a single endpoint solution or part of a larger multi-sensor deployment

Specifications

- Size: 8"x10"x5"
- Weight: 14 lbs.
- Power: 100W
- Power supply: 12V DC, 100-240V AC
- Operating temp. range: 0° to 50° C
- Storage temp. range: -20° to 85° C



How it works

Network Guard passively surveys all available networks continuously, enabling it to decode over-the-air broadcast messages and perform real-time network analysis. Anomalous network behavior is detected through in-depth inspection of the publicly available broadcast information transmitted by base stations. This level of inspection allows the system to immediately alert when active cellular systems are in-use. The collected data is also stored for further post-mission analytics. Post-mission analysis is rapid, detailed and can be combined with surveys from previous missions to highlight changes in the mobile networks over time.

The network survey process utilized by Network Guard is designed to detect many different exploitation techniques and signatures used by the various types of devices used for cellular network surveillance.

World-class technology

- Simultaneous scanning of multiple radio access technologies
- Real-time analysis and alerting engine
- Integrated GPS for accurate positional info
- Passive cellular downlink scanning and decoding
- Web-based command and control
- Command and control over Ethernet and Wi-Fi
- Remote out-of-band communication over cellular modem
- Integrated vector mapping
- Multiple export data formats
- System can be operated in an autonomous mode
- Extensible platform to support future mission requirements

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 Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID812)



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for National Security

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Worldwide Headquarters

12021 Sunset Hills Road, Reston, VA 20190
703-841-7800

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