

Network Guard

Rogue Cellular Base Station Detection

World-class Situational Awareness of
**Cellular Communication Surveillance,
Interception, and Attacks**



The CACI | SystemWare **Network Guard** offers a robust capability to detect and combat 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.



For more information, or
to purchase contact:

CACI | SystemWare Sales
(410) 579-1300
swi-sales@sysware.com

CACI | SystemWare
is a CACI Company

For more information about our
expertise and technology, visit:
www.caci.com

A *Fortune* World's Most Admired Company

EXPERTISE AND TECHNOLOGY FOR NATIONAL SECURITY

CACI
EVER VIGILANT

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 **CACI | SystemWare's** Resource Manager 2 software, which offers direct monitoring, configuration, and tasking as a single endpoint solution or part of a larger multi-sensor deployment

The screenshot displays the 'GSM Base Station Details (ROGUE)' window. It features a map on the left showing the location of the base station near Waterloo, VA, with a red '((P))' icon. The right side contains technical parameters for a T-Mobile USA base station, including Band: 1900, ARFCN: 810, Mobile Country Code: 310 (United States), Mobile Network Code: 260, Location Area Code: 26882, Cell ID: 24187, GSM Neighbors: 1900 (810), WCDMA Neighbors: 44, Cell Reselect Offset: 44, Cell Reselect Hysteresis: 6, Minimum RxLev: -102, Maximum Tx Power: 2, Cell Bar Quality: 0, Temporary Offset: 0, Penalty Time: 20, Early Assignment: 0, Location Update Timer: 60, and RSSI: -45.01 dBm. The 'Last Seen' timestamp is 2019/01/10 15:56:17 UTC. Below the map and parameters is an 'Events' table with columns for Description, Referenced, Observed, and Last Seen.

Description	Referenced	Observed	Last Seen
Basestation Changed		1	2019/01/10 15:54:29 UTC
New CellID Found	15103, 15282, 15808, 16301, 16302, 16303, 18931, 22841, 37221	24187	2019/01/10 15:56:16 UTC
New LAC Found	22603, 46134	26882	2019/01/10 15:56:16 UTC
Self Only Neighbor		1	2019/01/10 15:56:16 UTC

How Does it Work?

Network Guard continually surveys all available networks, and performs real-time analysis on the collected data. Anomalous network behavior is detected by in-depth inspection of broadcast information from 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 (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-10. (PR ID317)



EXPERTISE AND TECHNOLOGY
FOR NATIONAL SECURITY

CACI's approximately 22,000 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.

Worldwide Headquarters

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

Visit our website at:
www.caci.com

Find Career Opportunities at:
<http://careers.caci.com/>

Connect with us through social media:

