

# LiveRAN™

## High-fidelity, affordable, and flexible modeling and simulation for 4G/5G mobile networks



**CACI's Live Radio Access Network (LiveRAN)** - powered by the Keysight EXata™ platform, is a wireless network modeling and simulation solution. It is ideal for testing mobile and network-enabled internet of things (IoT) devices, handsets, supervisory control and data acquisition/industrial control systems (ICS) modems, iOS and Android™ operating systems, and applications that require a high level of fidelity. Testing scenarios include terrain-specific network performance analysis, cyber testbeds and network planning, upgrades, testing, and evaluation.

With its ability to make certain mobile network elements live and simulate others, LiveRAN provides a unique environment for testing, training, and creating exercise scenarios for mobile networks used by commercial and government/defense organizations in the following situations:

- Analyzing resiliency of critical communications in sub-optimal conditions (commercial networks, cyber warfare, kinetic/non-kinetic situations)
- Testing and exercise development for facility and force protection missions such as:
  - Protection of facilities, embassies, and their critical communications
  - Protection of ships while docked
- Coordinating and interfacing with air-enabled cyber operations
- Training for network managers, users, warfighters, and cybersecurity specialists

To purchase or for more information contact:

**CACI Network Modeling and Simulation**  
modsim@caci.com

For more information about our expertise and technology visit:

[www.caci.com](http://www.caci.com)

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LiveRAN allows users to develop, test, train, and exercise force-protection missions and warfighter scenarios, and analyze communications to understand the mission impact of selected scenarios.

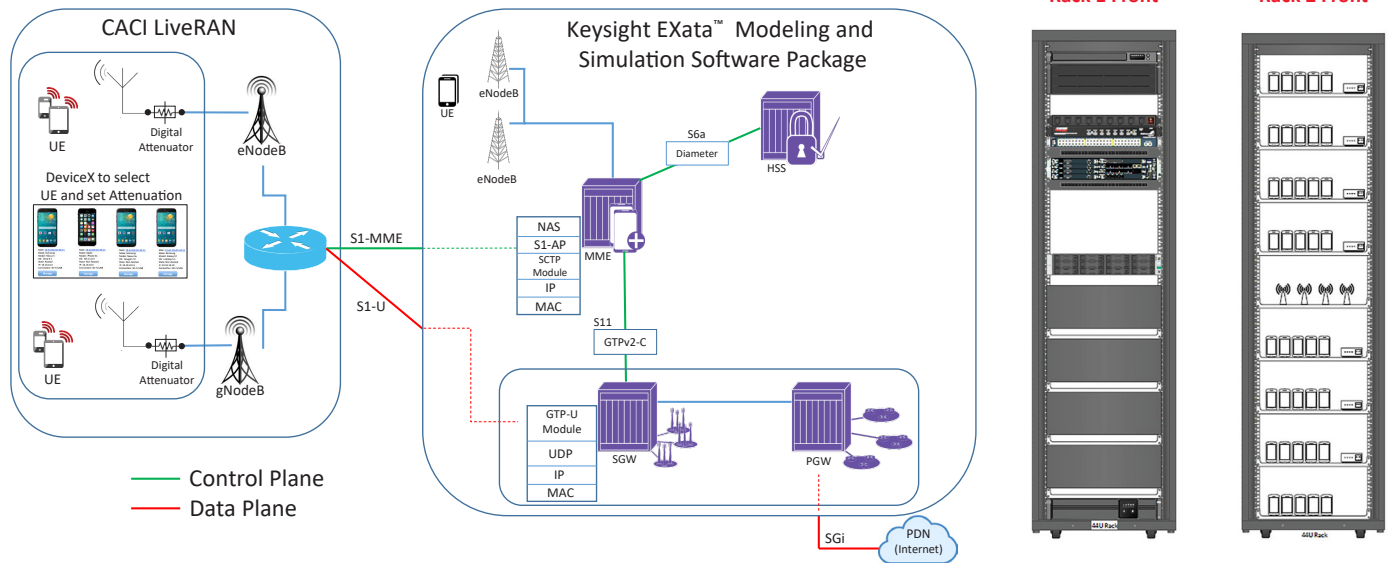
The CACI LiveRAN solution includes the following:

- Consolidated smartphone graphic user interface to control multiple devices from a single touchscreen workstation
- Standard 3GPP eNodeBs and gNodeBs to provide real-world cellular access including hand-off control and functionality
- Integration with commercial evolved packet core (EPC) emulation packages via software modules to simulate the mobility management entity (MME), signaling gateway/PDN gateway (SGW/PGW), and home subscriber server (HSS) network elements and provide access to the internet

**Support services include:**

- Customized hardware configurations and eNodeB/gNodeB selection
- EPC hardware substitution of simulated EPC components for seamless live-to-simulated interaction (LiveEPC-NE)
- Software maintenance

**Technical Specifications:**



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