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.

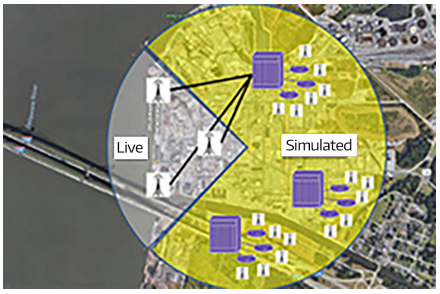
With its ability to make certain mobile network elements live and simulate others, LiveRAN provides a unique environment for testing, training, and creating exercise scenarios for mobile networks used by commercial and government/defense organizations in the following situations:

- 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



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.

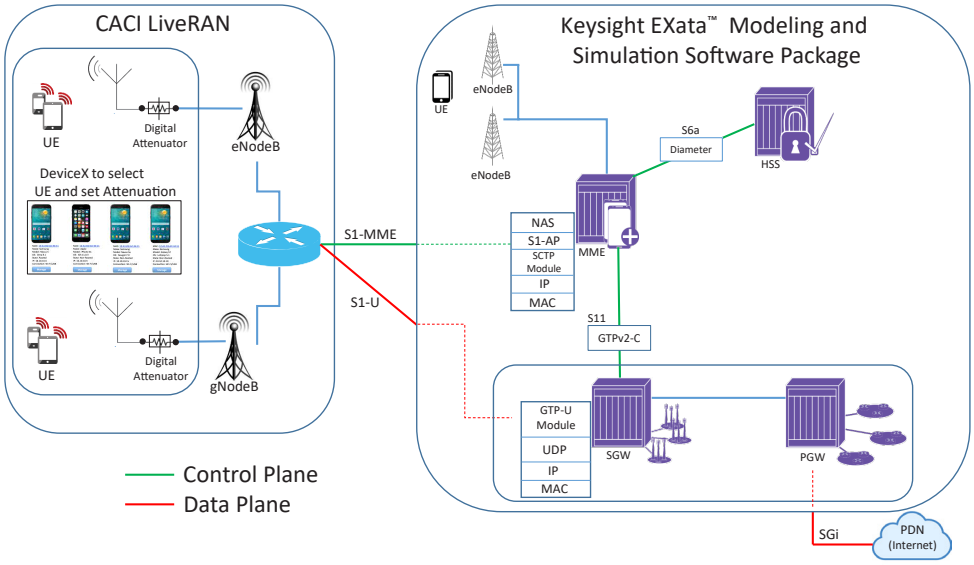
The CACI LiveRAN solution includes the following:

- 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

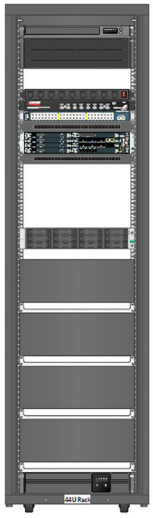
Support services include:

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

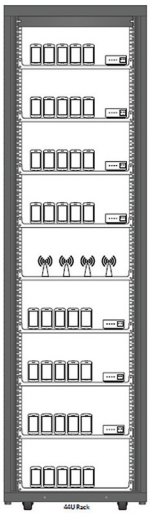
Technical Specifications:



Rack 1 Front



Rack 2 Front



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EXPERTISE and **TECHNOLOGY**
for National Security

At CACI International Inc (NYSE: CACI), our 24,000 talented and dynamic employees are ever vigilant in delivering distinctive expertise and differentiated technology to meet our customers' greatest challenges in national security and government modernization. We are a company of good character, relentless innovation, and long-standing excellence. Our culture drives our success and earns us recognition as a *Fortune* World's Most Admired Company. CACI is a member of the *Fortune* 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index. For more information, visit us at caci.com.

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