

Topic: N08-225

Scalable Network Technologies, Inc.

Application Traffic Injection into Live Virtual Constructive Link-16 Models

SCALABLE provides network design and analysis tools that enable customers to develop, plan, test and deploy wired, wireless, acoustic and optical networks in a high fidelity, physics-based simulation environment from undersea-to-space. SCALABLE is working with the Multifunctional Information Distribution System (MIDS) Program office to deliver a live/virtual/constructive Link-16 network environment that combines a Joint Range Extension Applications Protocol Version C (JREAP-C) application layer model, standards-compliant external interfaces to live radio hardware, J-series message generation and consumption capability, and functional interfaces to external simulation systems such as the Network Enabled Weapons Control Interface Module (NEWCIM). This will provide a robust, scalable Link-16 network system-in-the-loop capability as part of the Joint Network Emulator (JNE) library of military waveforms to enable predictable communications in all physical and cyber warfighting domains.

Technology Category Alignment:

RF Components for sensing, transmission and communication

Synthesis/Analytics/Decision Tools

Cyber

Collaborative Analysis and Decision-making

Modeling and Simulation Technology

Contact:

Jeff Hoyle

jhoyle@scalable-networks.com

(858) 750-5008

<http://www.scalable-networks.com>

SYSCOM: NAVWAR

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Contact: Jeff Hoyle, Vice President, Federal Programs
jhoyle@scalable-networks.com 858-750-5008