



A GOTS Library Powered by EXata

StealthNet

A Cyber Attack Model Library

**Design, test,
analyze & assess
cyber resilience of
tactical battlefield
communications
and networks**



SCALABLE
NETWORK TECHNOLOGIES

List of Models available in JNE:

(* in the Military Wave Library)

Model Name

Wideband Networking Waveform (WNW)
v 4.0.8.1

Soldier Radio Waveform (SRW)
versions 1.01.1 and 1.1.1

Mobile User Objective System (MUOS)

Single Channel Ground and Airborne
Radio System (SINCGARS)

Enhanced Position Location Reporting System
(EPLRS)

Warfighter Information Network-Tactical
(WIN-T): NCW and HNW

Blue Force Tracker (BFT) 1 and 2

Mode 5

Adaptive Networking Wideband Waveform
(ANW2)

* Link-16

* Link-11

* Ultra High Frequency (UHF),
Very High Frequency (VHF)

* Satellite Communications (SATCOM)

JNE In-the-Loop Interfaces

Interface Name

JTRS Enterprise Network Manager (JENM)
Interface

One Semi Automated Force (OneSAF)

C2 Adapter Interface

C3 Driver Interface

Red Side Interface with live radios

Black Side Interface with live radios

Interface to live Mission Command applications

Interface to HLA/DIS Federates

Interface to DRA/DMOD

Interface to live chat, VOIP, streaming video
applications

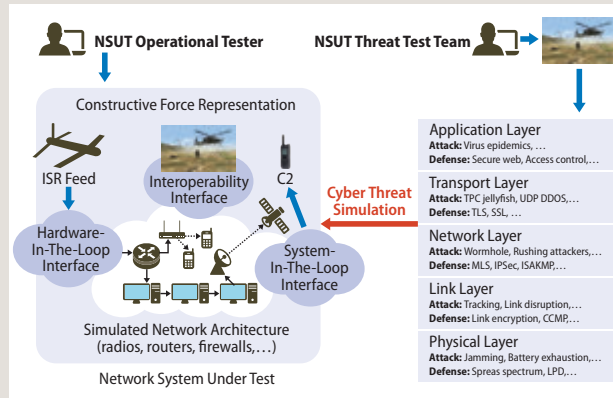
AMIE: Architecture Management Integration
Environment

Joint Network Emulator (JNE)

- JNE is a Government-Off-The-Shelf (GOTS) library that uses EXata as the underlying network simulation platform and leverages its efficient parallel discrete-event simulation kernel and system-in-the-loop interfaces
- Provide military personnel and defense contractors with a high-fidelity LVC modeling and simulation environment to quickly and cost effectively plan battlefield network architectures and mission scenarios, and test new radios in operationally accurate contexts and “at scale” deployments
- JNE leverages the efficient parallel discrete-event simulation kernel provided by EXata to support its ability to run in both ‘faster than real-time’ mode, as well as, in emulation mode when sync’ed with live components. JNE also provides the ability to scale to multi-brigade deployments with ground, air and space based assets

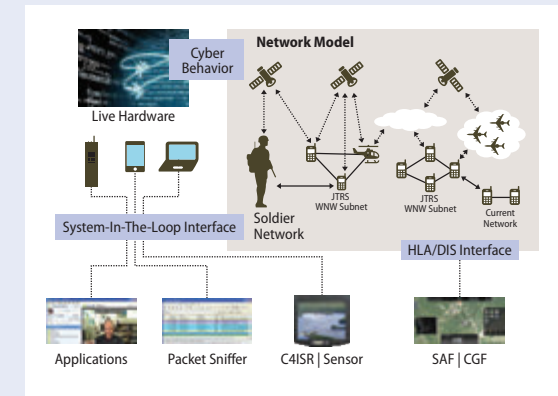
StealthNet Cyber Library

- StealthNet is a GOTS Cyber Modeling Simulation capability developed under a Test Resource Management Center (TRMC) funded S&T project
- StealthNet allows users to represent in simulation a wide range of cyber-attacks operating on tactical and enterprise network architectures and devices



SCALABLE's Solutions

Live, Virtual, Constructive (LVC) network models facilitate at-scale network representation in operational context

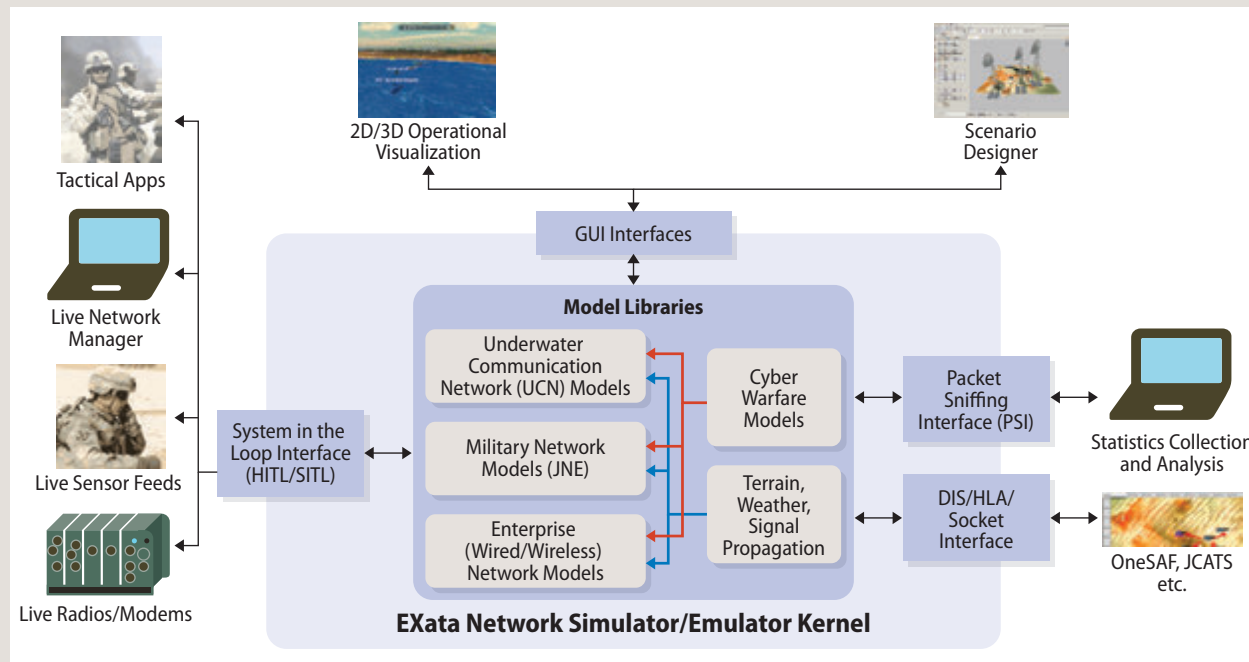


Our LVC models have facilitated the use of real-time network emulations and integrations with live hardware and software to create at scale network representations for in field or lab based use.

- Environment
- Operations
- Live Interactions
- Cyber warfare
- Application Centric

Contract Vehicles

- JNE SBIR Phase III IDIQ (Prime)
 - Joint Network Emulator SBIR Phase III
- CSRETI IDIQ (Sub)
 - Cyberspace Science, Research, Engineering and Technology Integration
- AMCOM EXPRESS BPA (Sub)
 - Multiple Partners



For over 15 years, SCALABLE has been providing network design and analysis tools and cyber training systems that enable customers around the world to develop, test and deploy large sophisticated wireless networks and communications equipment.

Our solutions integrate software virtual networks with physical hardware and applications, allowing users to rapidly test a wide range of highly realistic scenarios for enhanced operational planning, training and communications without the expense of building out physical infrastructure.



SCALABLE Network Technologies

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