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SCALABLE Releases JNE Version 4.6.1

- Joint Network Emulator focuses on Underwater Communications modeling and increased scalability for tactical battlefield communications -

Culver City, CA (26 September 2017) - SCALABLE Network Technologies, Inc. (SCALABLE), a leader in wireless network, design and optimization tools, announced today the availability of version 4.6.1 of the Joint Network Emulator (JNE). A GOTS library to model tactical communications and networks, JNE runs on EXata, SCALABLE's COTS modeling and simulation software that provides military personnel and defense contractors with a high-fidelity, live- virtual-constructive (LVC) modeling and simulation environment for battlefield networks. The user is able to work with an accurate, high performance end-end "virtual" environment that can be analyzed through a series of realistic scenarios to identify performance gaps or failure modes that can be mitigated prior to deployment. This allows for a lab-based risk reduction capability that is repeatable, verifiable and highly cost effective. Analysts and testers can also use the available cyber library with its rich set of cyber threat models, to test for vulnerabilities and cyber resilience of the battlefield networks and mission command systems,

"As the needs of our defense customers change, it is necessary to advance our software to prepare for future warfare including cyber and underwater communications," stated Rajive Bagrodia, CEO of SCALABLE. "Our newest release of JNE focuses on the evolving need to implement large-scale models that can execute in hard real-time to interface with live applications and hardware, incorporate underwater communications modeling, and improved visualization and analysis capabilities. We aim to continuously provide solutions that leverage the latest innovations in modeling & simulation technology to our warfighters."

The JNE 4.6.1 release includes increased functionality, scalability, visualization and network models. Significant new features include:

- Underwater Communications Networks (UCN) Model Library with PHP and MAC models for underwater acoustics and optical communications
- Simulated traffic flows can be individually selected for visualization
- Support for multiple 3D file formats including Collada(.dae)
- Added visualization for layer 2 receptions
- Added support for rectangular Cartesian terrain

JNE 4.6.1 is available now and includes the Blue Force Tracker (BFT), SINCGARS, EPLRS, WNW, SRW, WIN-T, MUOS, Mode 5, and other waveforms, as well as interfaces to OneSAF, other constructive simulations and live hardware and applications in the loop. StealthNet, a GOTS library that works in conjunction with JNE, features cyber threat models for adaptive and coordinated attacks, scalability to test attacks on large communication networks, and

cyber test and analysis metrics to quantify the information and the operational impact of cyber offense and defense strategies. It enables an environment and methodology for testing blue systems against cyber attacks in order to discover and validate vulnerabilities and to assess mission impact.

JNE is supported on 64-bit platforms running the development installations of CentOS and RHEL 6.x, CentOS and RHEL 7.x, Ubuntu 14.04 LTS and Ubuntu 16.04 LTS. The C++ 11 API is now used (instead of pthreads) for multi-threading.

About SCALABLE Network Technologies

Based in Culver City, California, SCALABLE provides network design, modeling and analysis tools, cyber training and assessment solutions and engineering support services to commercial enterprises, government and defense agencies, research organizations and educational institutions around the world.

SCALABLE solutions integrate simulated virtual network models with physical hardware and applications, allowing users to reduce the time, cost and risks of developing, testing and deploying large, sophisticated wired and wireless networks and new communications equipment, and train personnel on cyber defense.

More information on the company is available at scalable-networks.com.

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