



News Release

Joint Program Executive Office, Joint Tactical Radio System

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JPEO JTRS Completes Successful SRW Interoperability Quicklook (SIQ) Field Exercise

Test provided initial validation of SRW's ability to interoperate across multiple radio platforms

SAN DIEGO – The Joint Tactical Radio System (JTRS) Reference Implementation Laboratory (JRIL) recently conducted a Soldier Radio Waveform (SRW) Interoperability Quicklook (SIQ) Field Exercise at SPAWAR System Center (SSC) Pacific Topside and Seaside facilities in San Diego, CA from 6-16 September 2011. With assistance from the JPEO JTRS Technical Director, participating JTRS Program Offices and several commercial vendors, JRIL test engineers from SSC- Atlantic and SSC-Pacific successfully configured, executed, and monitored lab and field tests using the latest version of SRW, SRW Network Manager (SRWNM) and JTRS Enterprise Network Manager (JENM).

The JTRS government test engineers successfully demonstrated the formation of a heterogeneous SRW Island comprised of six unique types of SRW-capable radio platforms including two radios developed under government contract by the JTRS Program: Ground Mobile Radio (GMR) and Handheld, Manpack, Small Form Fit (HMS) Rifleman Radio. Leveraging the JTRS Enterprise Business Model (EBM), the commercial vendors obtained the SRW waveform from the JTRS Information Repository and integrated the waveform into their radio products using internal funding. Commercial radios that participated in the interoperability event include ITT Soldier Radio-Rifleman, ITT Side Hat Radio, Harris AN/PRC-117G, and the Northrop Grumman Freedom radio.

The objective of the field exercise was to evaluate the effectiveness of recent SRW patches and parameter updates on platform interoperability and performance in a field environment. Both static and mobile configurations were examined. Each vendor provided multiple radios, which permitted the formation of networks containing up to 14 nodes. Initial test results indicate that all participating radios were able to form a network and exchange Internet Protocol (IP) data and Combat Network Radio (CNR) voice in an interoperable manner.

This SIQ test provided initial validation of SRW's ability to interoperate across multiple radio platforms. The SRWNM also successfully monitored the configured network throughout the testing, enabling critical insight to the health and status of the heterogeneous SRW network.

The success of these tests continues to highlight the benefit of the innovative JTRS EBM, designed to enable more cost-effective capability growth by accelerating and increasing competition within JTRS capability acquisition. This model is a paradigm shift for defense communications in its move away from sole source, stove-piped, point-to-point proprietary systems to a highly competitive, interoperable, networking environment.

Successful completion of this SIQ event also provides significant risk reduction for the Army's Network Integration Exercise (NIE) 12.1 planned for October/November 2011. Four of the six JTRS radios tested evaluated as interoperable over-the-air using SRW during this event will also be participating in that exercise. Priorities of NIE 12.1 are to extend the network to the individual Soldier, advance mission command on the move and continue to establish an Integration Network Baseline. JPEO JTRS plans to continue partnering with Army and commercial developers to conduct JTRS waveform interoperability testing in support of future NIE events.

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