



News Release

Joint Program Executive Office, Joint Tactical Radio System

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JTRS Network Enterprise Domain Demonstrates Wideband Networking Waveform

Senior officials review largest battlefield networking demonstration

SAN DIEGO – The Joint Program Executive Office Joint Tactical Radio System (JPEO JTRS) today announced that the Wideband Networking Waveform (WNW), a critical capability of the JTRS, successfully demonstrated its validated design and tactical utility June 3 and 4 during a multi-node demonstration with senior service and Department of Defense officials at the Space and Naval Warfare Systems Center, Charleston, S.C. Thirty ground mobile radios were used in the largest demonstration of the capability to date.

“The Wideband Networking Waveform overcomes many mobile networking challenges,” said Navy Capt. Jeffrey Hoyle, Program Manager, JTRS Network Enterprise Domain. “We’ve now demonstrated this capability successfully scales to tactically useful numbers of nodes in an operationally relevant environment and is on track to meet joint warfighter requirements to provide a flexible and pervasive networking capability to address the challenges of modern battlefields.”

The event demonstrated how the WNW, operating on JTRS ground mobile radios, can effectively network 30 mobile and static nodes, sharing data and video across multiple sub-networks in a challenging, heavily forested suburban environment with significant multi-path propagation effects.

“During this field demonstration testing, WNW performed as expected, and we were able to validate laboratory performance improvements from recent waveform algorithm enhancements in the field,” added Hoyle. “The ability to integrate waveform enhancements rapidly while testing in the field (3 times in as many weeks) thoroughly demonstrated a significant advantage that JTRS provides - the ability to upgrade warfighter communications and networking capability while deployed through software only updates in fielded radios. This is an important accomplishment, and this capability that has now been successfully demonstrated in a field environment can be leveraged continuously throughout the WNW product lifecycle”

WNW is a networking waveform that enables connections between vehicles, planes and ships utilizing mobile networking technologies. WNW offers the ability to transit more information with greater security and provide new capabilities to seamlessly route and retransmit information. Performance results measured during this demonstration indicate a significant new networking capability that will continue to improve as the data collected are thoroughly analyzed to enable additional waveform software upgrades, as well as through processor and power amplifier improvements inherent with the improved Ground Mobile Radio Engineering Development Model hardware being delivered now and the Airborne/Maritime/Fixed Station hardware in the future.

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About JPEO JTRS

The Joint Tactical Radio System, headquartered in San Diego, Calif., was initiated in early 1997 to improve and consolidate the Services' pursuit of separate solutions to replace existing legacy radios in the Department of Defense inventory. The JTRS program has evolved from separate radio replacement programs to an integrated effort to network multiple weapon system platforms and forward combat units where it matters most – the last tactical mile. JTRS will link the power of the Global Information Grid to the warfighter in applying fire effects and achieving overall battlefield superiority.

JTRS is developing an open architecture of cutting edge radio waveform technology that allows multiple radio types (e.g., handheld, aircraft, maritime) to communicate with each other. The goal is to produce a family of interoperable, modular software-defined radios which operate as nodes in a network to ensure secure wireless communication and networking services for mobile and fixed forces. These goals extend to U.S. allies, coalition partners and, in time, disaster response personnel.