Joint Tactical Radio System Network Enterprise Domain (JTRS NED)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Develops portable, interoperable, mobile ad-hoc networking waveforms/applications, providing the combatant commanders with the ability to command, control, and communicate with their forces via secure voice, video, and data media forms during military operations.

DESCRIPTION

The Joint Tactical Radio System Network Enterprise Domain (JTRS NED) is responsible for the development, sustainment, and enhancement of JTRS interoperable networking and legacy software waveforms. NED's product line consists of: 14 legacy waveforms (Bowman VHF, COBRA, EPLRS, Have Quick II, HF SSB/ALE, HF 5066, Link-16, SINCGARS, UHF DAMA SATCOM 181/182/183/184, UHF LOS, VHF LOS); three mobile ad-hoc networking waveforms (Wideband Networking Waveform [WNW], Soldier Radio Waveform [SRW], and Mobile User Objective System [MUOS]–Red Side Processing); and Network Enterprise Services (NES) including the JTRS WNW Network Manager (JWNM), SRW Network Manager (SRWNM), JTRS Enterprise Network Manager (JENM), and Enterprise Network Services (ENS).

JTRS NED manages the development of software waveforms targeted to operate on platforms such as the Mid-Tier Networking Vehicular Radio (MNVR), the Handheld, Manpack, and Small Form Fit (HMS) radios, the Airborne and Maritime/Fixed Station (AMF) radios, and the Multifunctional Information Distribution System (MIDS) radios. The JTRS NED software development and sustainment efforts leverage commercial technology and employ open-system architecture to better ensure interoperability and portability of each waveform. JTRS NED develops networking waveforms to support wireless networking with Global Information Grid connectivity for deployed warfighters at the tactical edge. In addition, NED provides network management and network services software for the planning, execution, configuration, and monitoring of the JTRS radios and networks, including route and retransmit services between networking and legacy waveforms.

SYSTEM INTERDEPENDENCIES

In this Publication

None

Other Major Interdependencies

Enhanced Position Location and Reporting System (EPLRS), MUOS, Link-16

PROGRAM STATUS

- **1QFY12:** SRW facilitated the successful completion of the Rifleman Radio Initial Operational Test & Evaluation (IOT&E)
- **1QFY12:** SRWNM evaluated as Operationally Suitable & Effective in Rifleman Radio IOT&E
- **3QFY12:** SRW operating in either the lower UHF band or L Band, supported both dismounted and mounted platoon operations during Network Integration Evaluation (NIE) 12.2, while JENM 1.2 loaded and managed over 1100+ SRW capable radios in 42 subnets
- **3QFY12:** Supporting both 173rd Airborne Brigade Combat Team and the 2nd battalion of 75th Ranger Regiment fielding of JTRS
- **4QFY12:** Complete MUOS Formal Qualification Test (FQT)

PROJECTED ACTIVITIES

- **1QFY13:** Support the continued deployment of JTRS throughout the Army and other service components
- **1QFY13:** Complete JENM FQT
- **1QFY13:** The JTRS NED becomes the Joint Tactical Networking Center (JTNC) Joint Tactical Networking (JTN) Program Management Office
- **1QFY15:** OH-58F KW Limited User Testing
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ACQUISITION PHASE

Technology Development | **Engineering & Manufacturing Development** | Production & Deployment | Operations & Support

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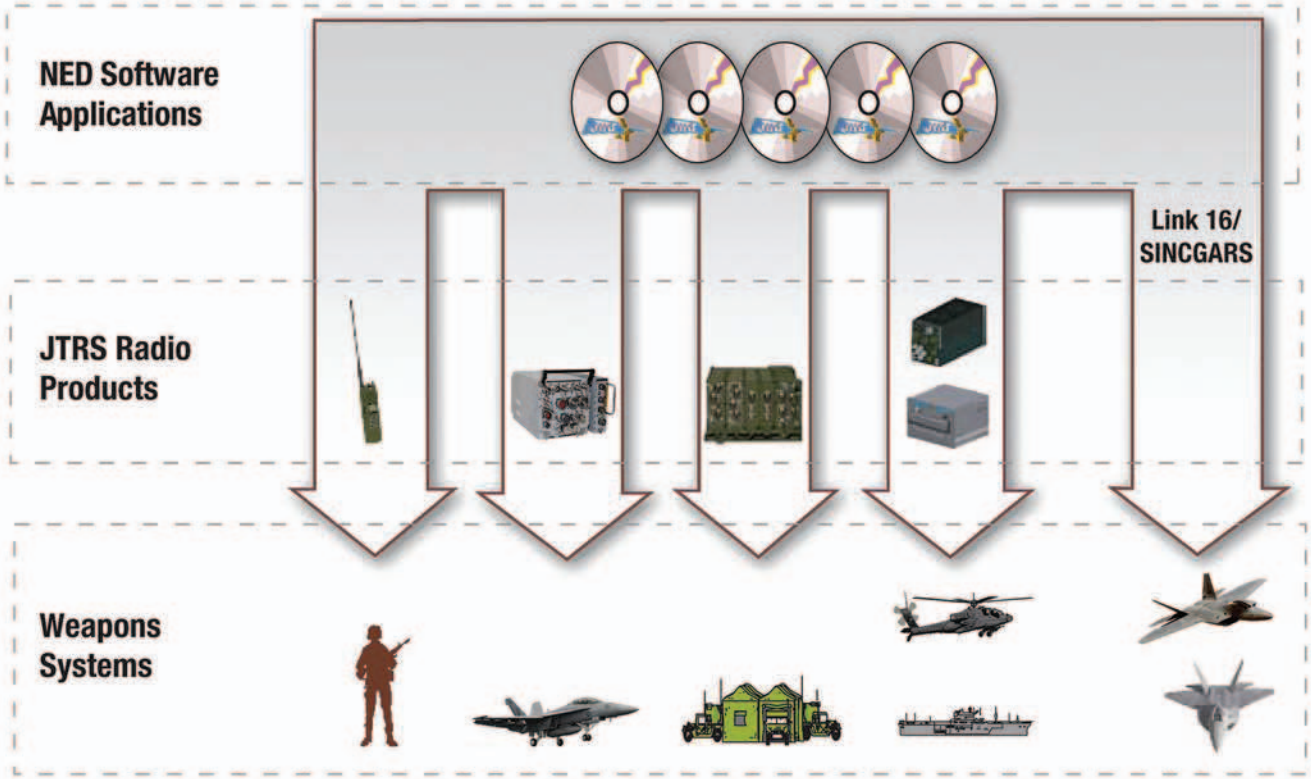

FOREIGN MILITARY SALES
None

CONTRACTORS
MUOS:
Lockheed Martin (Sunnyvale, CA)
SRW, SRWNM, ENS Phase 1 (SoftINC):
ITT Corp. (Fort Wayne, IN)
PM Support:
SRA (Fairfax, VA)
JWNM, WNW, JENM:
Boeing (Huntington Beach, CA)
ENS Phase 1 Tactical Data Controller (TDC):
Rockwell Collins (Cedar Rapids, IA)