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 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); Network Enterprise Services (NES) including the JTRS WNW Network Manager (JWNM), Soldier Radio Waveform 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 Ground Mobile Radio (GMR), the Handheld, Manpack, and Small Form Fit (HMS) radios, the Airborne and Maritime/Fixed Site (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

JTRS GMR; JTRS AMF; JTRS MIDS; JTRS HMS; Single Channel Ground and Airborne Radio System (SINCGARS)

Other Major Interdependencies

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

PROGRAM STATUS

- **FY10:** Legacy WF/SRW final qualification test (FQT) completed
- **1QFY10:** HF FQT completed
- **1QFY10:** WNW FQT completed
- **1QFY10:** SRW Delta FQT on HMS completed
- **2QFY10** JWNM FQT completed

PROJECTED ACTIVITIES

- **1QFY11:** Complete ENS Phase 1 (SoftINC) FQT
- **1QFY11:** Complete SRWNM FQT
- **2QFY11:** Complete MUOS FQT
- **3QFY11:** Complete ENS Phase 1 (TDC) FQT
- **4QFY11:** Complete JENM Phase 2 FQT
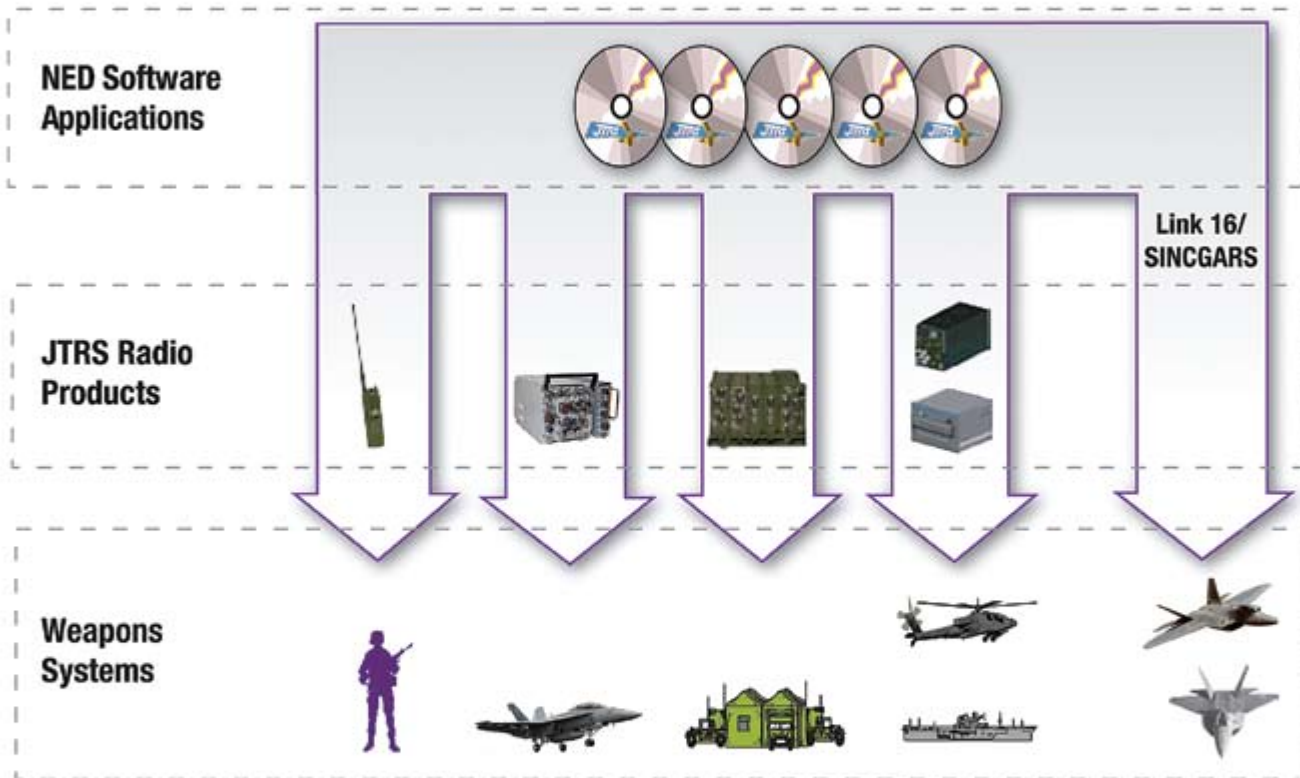- **4QFY12:** Complete JENM Phase 3 FQT

ACQUISITION PHASE

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

FOREIGN MILITARY SALES
None

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