

Joint Tactical Radio System Ground Mobile Radios (JTRS GMR)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Develops, demonstrates, certifies, fields, and sustains an affordable, multi-channel networking radio system that meets DoD ground vehicle digitization and tactical communication requirements.

DESCRIPTION

Joint Tactical Radio System Ground Mobile Radios (JTRS GMR) are a key enabler of the DoD and Army Transformation and will provide critical communications capabilities across the full spectrum of Joint operations.

Through software reconfiguration, JTRS GMR can emulate current force radios and operate new Internet protocol-based networking waveforms offering increased data throughput utilizing self-forming, self-healing, and managed communication networks. The GMR route and retransmit functionality links various waveforms in different frequency bands to form one internetwork. GMR can scale from one to four channels supporting multiple security levels and effectively

use the frequency spectrum within the two megahertz to two gigahertz frequency range. The radios are Software Communications Architecture compliant with increased bandwidth through future waveforms. GMR are interoperable with more than four legacy radio systems and the JTRS family of radios (HMS, JEM, and AMF).

SYSTEM INTERDEPENDENCIES

In this Publication

Joint Tactical Radio System Airborne and Maritime/Fixed Station (JTRS AMF); Joint Tactical Radio System Handheld, Manpack, Small Form Fit (JTRS HMS); Single Channel Ground and Airborne Radio System (SINCGARS)

Other Major Interdependencies

Enhanced Position Locating Reporting System (EPLRS), High Frequency (HF), Network Enterprise Domain (NED), Satellite Communications (SATCOM), Soldier Radio Waveform (SRW), Ultra-High Frequency (UHF), Wideband Networking Waveform (WNW)

PROGRAM STATUS

- **2QFY09:** Engineering development model (EDM) radio deliveries began; test readiness review
- **3QFY09:** EDM production and deliveries completed; production qualification test began; security verification tests began
- **3QFY10:** System integration test began; security verification test concluded; production qualification test concluded; NSA approval to enter limited user test

PROJECTED ACTIVITIES

- **1QFY11:** Limited user test
- **2QFY11:** Conclude Milestone C decision approving entry into the production and deployment phase

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Joint Tactical Radio System Ground Mobile Radios (JTRS GMR)

FOREIGN MILITARY SALES

None

CONTRACTORS

Prime:

Boeing (Huntington Beach, CA)

Hardware:

BAE Systems (Wayne, NJ)

Rockwell Collins (Cedar Rapids, IA)

Northrop Grumman (Carson, CA)

