

# Joint Tactical Radio System Multifunctional Information Distribution System (JTRS MIDS)

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

## MISSION

Provides real-time information and situational awareness to the Joint and coalition warfighter in the airborne, ground, and maritime domains through secure, scalable, modular, wireless, and jam-resistant digital data and voice communications.

## DESCRIPTION

The Joint Tactical Radio System Multifunctional Information Distribution System (JTRS MIDS) is a secure, scalable, modular, wireless, and jam-resistant digital information system currently providing Tactical Air Navigation (TACAN), Link-16, and J-Voice to airborne, ground, and maritime joint and coalition warfighting platforms. MIDS provides real-time and low-cost information and situational awareness. The MIDS

Program includes the MIDS–Low Volume Terminal (MIDS-LVT) and the MIDS JTRS Terminal.

**MIDS-LVT** is the foundation of the MIDS international cooperative program with Joint service participation. MIDS-LVT provides interoperability with NATO users, significantly increasing force effectiveness and minimizing hostile actions and friend-on-friend engagements. Three principal configurations of the terminal are in production and use an open-system, modular architecture. MIDS-LVT(1) provides a Link-16 capability to Navy and Air Force platforms, which were previously unable to use the Joint Tactical Information Distribution System (JTIDS) due to space and weight limitations. MIDS-LVT(2) is an Army variant of MIDS that is a functional replacement for the JTIDS Class 2M terminal. MIDS-LVT(3), also referred to as MIDS Fighter Data Link (FDL), is a reduced-function terminal for the Air Force.

**MIDS JTRS** is a Software Defined Radio (SDR) that is compliant with the JTRS Software Communications Architecture (SCA). MIDS JTRS maintains the Link-16, J-Voice, and TACAN functionality of

MIDS-LVT, but also accommodates future technologies and capabilities. MIDS JTRS improvements over MIDS-LVT include Link-16 enhanced throughput (ET), Link-16 frequency remapping (FR), and programmable crypto. MIDS JTRS accommodates incremental delivery of the advanced JTRS waveforms through MIDS JTRS platform capability packages, such as the Joint Airborne Networking–Tactical Edge (JAN-TE) capability.

## SYSTEM INTERDEPENDENCIES

### In this Publication

Joint Tactical Radio System Airborne and Maritime/Fixed Station (JTRS AMF); Joint Tactical Radio System, Network Enterprise Domain (JTRS NED)

### Other Major Interdependencies

Link-16, TACAN, JAN-TE Waveforms; multiple Joint and coalition airborne, ground, and maritime platforms

## PROGRAM STATUS

- **1QFY10:** MIDS Program Memorandum of Understanding Extension to 2021 signed between the U.S., France, Italy, Germany, and Spain

- **1QFY10:** Milestone Decision Authority approval of MIDS JTRS limited production and fielding of 41 terminals for USN (F/A-18E/F) and USAF (JSTARs)
- **2QFY10:** MIDS-LVT Lot 11 contract award bringing total of MIDS-LVT terminals on contract or delivered to 6,000+
- **2QFY10:** MIDS JTRS receives National Security Agency Type 1 certification
- **3QFY10:** MIDS JTRS developmental test complete
- **3QFY10:** MIDS JTRS operational test readiness review complete
- **4QFY10:** MIDS JTRS initial operational test and evaluation (IOT&E) conducted

## PROJECTED ACTIVITIES

- **1QFY11:** MIDS JTRS IOT&E report issued by commander, operational test and evaluation force
- **2QFY11:** MIDS JTRS IOT&E report issued by director, operational test and evaluation
- **2QFY11:** MIDS JTRS initial operational capability with the USN F/A-18E/F Super Hornet
- **2QFY11:** MIDS JTRS full production and fielding decision

## ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

### Joint Tactical Radio System Multifunctional Information Distribution System (JTRS MIDS)

#### FOREIGN MILITARY SALES

##### MIDS-LVT:

1,881 terminals (internationally)

##### JTRS MIDS:

None

#### CONTRACTORS

ViaSat Inc. (Carlsbad, CA)

##### Data Link Solutions:

Rockwell Collins (Cedar Rapids, IA)

BAE Systems (Wayne, NJ)

EuroMIDS (Paris, France)

Thales (France)

Selex (Italy)

EADS (Germany)

Indra (Spain)



MIDS Core Terminal



MIDS-LVT

