

ARCHIVED REPORT

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Joint Tactical Information Distribution System (JTIDS) (URC-107(V)/URC-138/GSQ-239)

Outlook

- Joint Tactical Information Distribution System (JTIDS) is obsolete and not supportable, according to a U.S. Navy FY11 budget document
- Multifunction Information Distribution System (USQ-140) is replacing the JTIDS across U.S. DoD and NATO services, according to the same U.S. Navy FY11 budget document
- No JTIDS production is forecast

Orientation

Description. The Joint Tactical Information Distribution System (JTIDS) is a military communications system that provides jam-resistant digital communication of data and voice.

Sponsor

U.S. Air Force
Electronic Systems Center (ESC)
9 Eglin St
Hanscom AFB
Bedford, MA 01731-5000
USA
Tel: + 1 (781) 377-4441
Web site: <http://www.af.mil>

Status. In service.

Application. Communication of data and voice.

Price Range. Forecast International estimates the price of one Joint Tactical Information Distribution System to range between \$700,000 and over \$4 million. This dollar amount is highly speculative.

Note: *Among other factors, price appears to vary according to the number of systems ordered (the larger the quantity ordered, the lower the price).*

Contractors

Prime

**BAE Systems Electronics,
Intelligence & Support, Electronic
Solutions**

<http://www.baesystems.com>, 164 Totowa Rd, Wayne, NJ 07474-0975 United States,
Tel: + 1 (973) 633-6000, Prime

Joint Tactical Information Distribution System (JTIDS)

| | |
|--------------------------------|--|
| Data Link Solutions LLC | http://www.datalinksolutions.net/dls , 350 Collins Rd NE, Cedar Rapids, IA 52498 United States, Tel: + 1 3(199) 295-4357, Prime |
| Rockwell Collins Inc | http://www.rockwellcollins.com , 400 Collins Rd NE, Cedar Rapids, IA 52498-0001 United States, Tel: + 1 (319) 295-1000, Fax: + 1 (319) 295-5429, Prime |

Comprehensive information on Contractors can be found in Forecast International's "International Contractors" series. For a detailed description, go to www.forecastinternational.com (see Products & Samples/Governments & Industries) or call + 1 (203) 426-0800.

Contractors are invited to submit updated information to Editor, International Contractors, Forecast International, 22 Commerce Road, Newtown, CT 06470, USA; rich.pettibone@forecast1.com

Technical Data

Time Division Multiple Access (TDMA) Network

- 128 Nets Maximum
- 128 Slots/Sec/Net

Message Catalog

- J Series (TADIL J)
- Interim JTIDS Message Standard (IJMS)

Frequency Operation

- JTIDS 969 to 1206 MHz @ 3MHz Channel spacing
- TACAN 962 to 1213 MHz @ 1MHz Channel Spacing

Information Data Rate

- 28.8 to 238 kb/s; Selectable Message Format

Cryptographic Secure Communications

- Two Channels of Digital Voice @ 2.4 and 16 kb/s

Anti-jam Features

- Fast Frequency Hopping
- Direct Sequence Spreading
- Error Detection and Correction

Communications Security (COMSEC)

- External Encryption Device, KGV-8A/B/C
- Embedded Encryption Device, DS-101/-102

Transmit Power

- 200 W TDMA (1000 W with High-Power Amplifier)
- 500 W TACAN

Program Review

In May 2005, Data Link Solutions (DLS) announced that the company had received a contract from the U.S. Air Force to supply its Joint Tactical Information

Distribution System to the U.S. Navy. The contract was worth \$13 million.

Joint Tactical Information Distribution System (JTIDS)

On August 25, 2008, the U.S. Department of Defense announced that the U.S. Air Force had awarded Data Link Solutions a contract to provide spares for the Joint Tactical Information Distribution System. The contract was valued at \$6.2 million.

Contracts/Orders & Options

No recent contracts have been identified.

Timetable

| <u>Month</u> | <u>Year</u> | <u>Major Development</u> |
|--------------|-------------|---|
| | 1990 | Development of modified Class 2 terminal for U.S. Navy (modified for higher power) completed |
| | 1990 | Procurement reduced to fewer than 1,300 terminals |
| Nov | 1991 | Joint service field test conducted |
| Oct | 1993 | Lot IV LRIP; JTIDS OT2 Delta and OT2 Charlie tests begun |
| 1Q | FY95 | Limited User Test of JTIDS Class 2M; low-rate production (35 terminals) |
| Mar | 1995 | JTIDS Class 2 and Class 2H receive Milestone III approval; full-rate production |
| Jun | 1996 | JTIDS Class 2R development program canceled |
| 1Q | FY97 | IOT&E of JTIDS Class 2M |
| Jul | 1997 | JTIDS Class 2M receives Milestone III approval; full-rate production |
| | 1997 | Funding cut for 11 additional JTIDS Class 2Ms for U.S. Army |
| May | 2005 | Data Link Solutions announces receipt of a \$13 million contract from U.S. Air Force to supply its JTIDS to U.S. Navy |
| Aug | 2008 | U.S. DoD announces that U.S. Air Force awarded Data Link Solutions a \$6.2 million contract to provide spares for the JTIDS |

Worldwide Distribution/Inventories

According to Rockwell Collins, the Joint Tactical Information Distribution System is used by nine NATO and allied countries.

Forecast Rationale

The Joint Tactical Information Distribution System or JTIDS is a military communications system that provides jam-resistant digital communication of data and voice.

JTIDS is a time division multiple access (TDMA) communication system operating at L-band frequencies. It operates over line-of-sight ranges up to 500 nautical miles with automatic relay extension beyond. The primary function of JTIDS is to distribute tactical information in digital form.

According to a U.S. Navy FY11 budget document, the JTIDS is obsolete and not supportable. According to the same budget document, the Multifunction Information Distribution System (USQ-140) is replacing the JTIDS across U.S. DoD and NATO services. No JTIDS production is forecast.

Barring further activity, this report will be archived in September 2011.

Ten-Year Outlook

With no production forecast, the **Ten-Year Outlook** chart has been eliminated.

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