

TCG ATR

TCG Adaptable Tactical Data Link Router (ATR) Data Links Simplified

Key Features

- On-demand dynamic Link 16 connectivity and routing
- Link 16 MIDS, JTRS, SADL, STT, and TTR terminal support
- Link 16 JREAP-A, JREAP-C Socket-J, and Serial-J support
- Complete J-series message support and dynamic routing
- Message, geographic, transmit/receive, and track data filtering
- Terminal initialization and control
- Real-time message monitoring (Link Message Analyzer)
- Message traffic record and analysis
- Compatible with TCG BOSS® and TCG GTS®
- Upgradable interface support
- Available in rackmount, laptop, or desktop configuration

Applications

- Airborne, land, space, and maritime tactical routing
- Expanded multi-network situational awareness
- Cross-link TDL support
- Tactical situational awareness display

Full Featured Link 16 Routing

Curtiss-Wright's TCG Adaptable Tactical Data Link (TDL) Router (ATR) is a complete, standards-compliant solution for Link 16 routing that seamlessly bridges multiple Link 16 and JREAP interfaces, enabling interoperable, resilient communications for airborne, land, and maritime operations. Designed to simplify tactical data link connectivity across platforms and networks, TCG ATR dynamically bridges multiple tactical data link interfaces—delivering reliable, on-demand connectivity at critical network nodes. Built on proven Curtiss-Wright software, TCG ATR provides full-featured embedded routing without the cost or complexity of a full data link processor or tactical display.

Affordable Link 16 Routing

TCG ATR fulfills the requirement for a dedicated Link 16 router without requiring a data link processing engine or tactical display. This streamlined design lowers acquisition and lifecycle costs compared to a TCG BOSS® or TCG GTS®, while retaining full routing, filtering, and monitoring capabilities.

System Architecture Overview

TCG ATR can be delivered as a software-only package or a complete hardware and software package, available in rack-mounted, laptop, or desktop configurations. The scalable, modular design supports multiple TDL protocols simultaneously, operating either independently or concurrently. ATR can easily integrate into existing architectures.

Upgradable Interface Support

TCG ATR provides a choice of network interfaces including MIL-STD-1553B, Ethernet, and RS232/422 Serial allowing you to connect any number of interface types and any number of connections per interface type.

Curtiss-Wright is the leading independent supplier of TDL software solutions for military communication systems. Curtiss-Wright's comprehensive portfolio of TDL testing, training, simulation, and battlefield operations solutions provide warfighters with proven multi-link communication capabilities that optimize performance and increase mission effectiveness, and is the leading TDL solution set used by militaries around the globe.

Features

Interface Options

- Link 16, SIMPLE, SADL
- JREAP-A and JREAP-C
- 1553-B:
 - MIDS JTRS
 - MIDS LVT-1
 - MIDS LVT-3
- Ethernet:
 - JREAP-C
 - MIDS LVT-1
 - MIDS LVT-2
 - Small Tactical Terminal (STT)
 - TacNet® Tactical Radio (TTR)
 - SADL
 - Socket J
 - SIMPLE-16
- RS-232: Serial J
- RS-422: JREAP-A

Data Link Standards Compliance

- MIL-STD-1553B (1553 Bus)
- MIL-STD-3011C (JREAP-A and JREAP-C)
- MIL-STD-6016B, C, D, E, F, G, H (Link 16)
- STANAG 5602 (SIMPLE)
- STANAG 5516 (Ed 3 and 5)

Additional Hardware Options

In addition to the standard rack mounted server configuration, TCG ATR can be configured as a laptop or desktop computer with external interface hardware, such as 1553 for Link 16 and/or synchronous serial adapter for JREAP-A. Ruggedized hardware is also available.

Ordering Information

Contact Curtiss-Wright for ordering information.

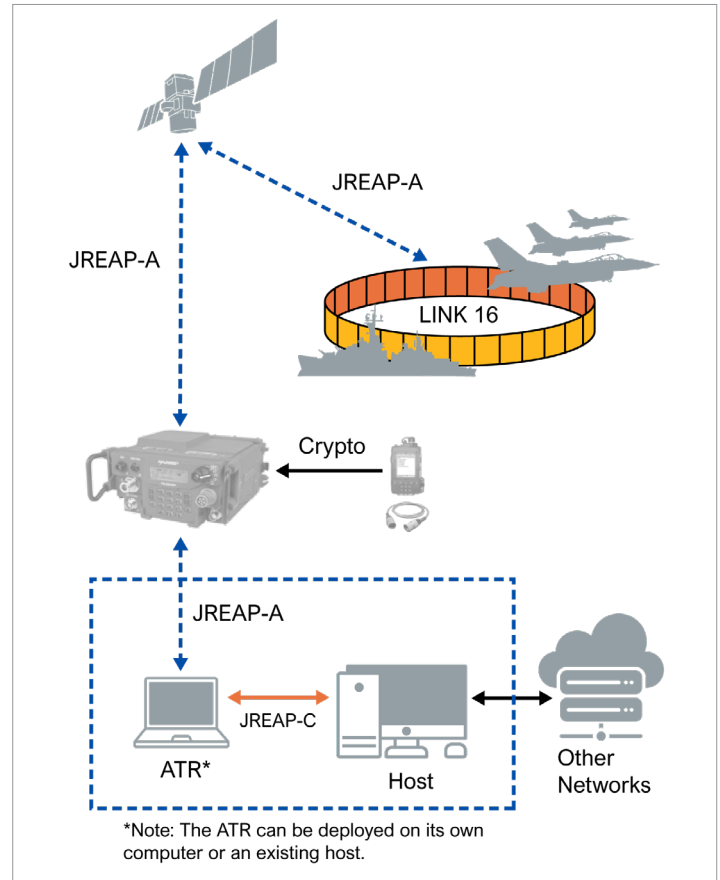


Figure 1: Example TCG ATR JREAP Routing Configuration

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