

# TCG Adaptable Tactical Data Link Router (ATR)

## Data Links Simplified

### Full Featured Link 16 Routing

Curtiss-Wright's [TCG Adaptable Tactical Data Link \(TDL\) Router \(ATR\)](#) is a technologically advanced, standards compliant Link 16 adapter and routing device. Using proven, mature software and hardware interfaces, TCG ATR seamlessly bridges multiple Link 16 network interfaces, providing dynamic connectivity on-demand at critical infrastructure nodes.

### Affordable Link 16 Routing

TCG ATR satisfies the need for a Link 16 interface router that does not require a data link processing engine nor a tactical display, and therefore can be purchased at a lower price point than a TCG BOSS® or TCG GTS®.

### Top-Level Architecture

TCG ATR is sold as a package that includes hardware (laptop or rack-mounted server) and software. The software consists of components that can function as a router for multiple TDL protocols. The product's highly scalable hardware design provides interfaces and processing for a variety of physical interfaces. All interfaces may be configured to operate together or independently.

### Upgradable Interface Support

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

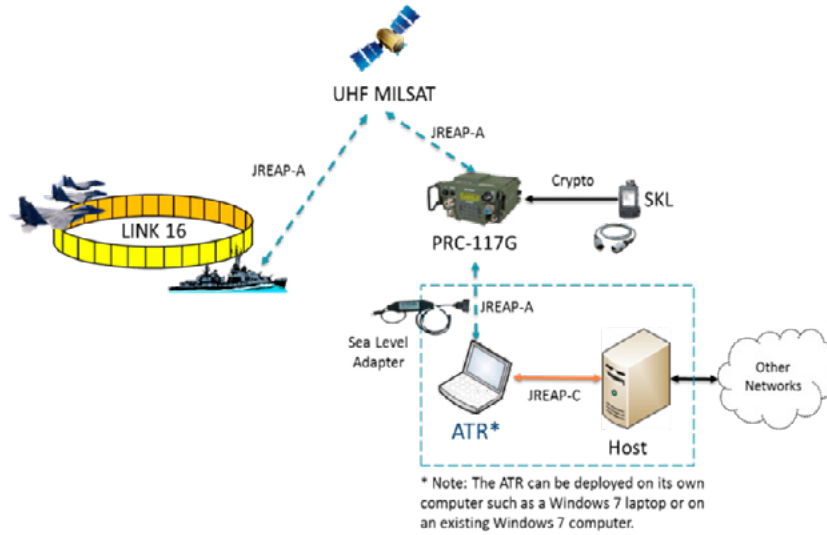
Curtiss-Wright is the leading independent supplier of TDL software solutions for military communication systems. Curtiss-Wright's comprehensive portfolio of TDL testing, training, simulation, and battlefield operations solutions provide warfighters with proven multi-link communication capabilities that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

## 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
- Dynamic interface configuration
- 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)
- Compatible with TCG BOSS® and TCG GTS®
- Message traffic record and analysis
- Upgradable interface support
- Rackmount, laptop, or desktop configuration

## Applications

- Airborne, land, sea-based tactical router
- Expanded situational awareness from multiple networks
- Cross-link TDL support
- Tactical situational awareness display



**Figure 1: TCG ATR JREAP Routing Configuration**

### 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

- MIL-STD-1553B (1553 Bus)
- MIL-STD-3011C (JREAP-A and JREAPC-C)
- MIL-STD-6016B, C, D, E, F, G (Link 16)
- STANAG 5602 (SIMPLE)
- STANAG 5516 (Ed 3 and 5)
- MTC v2

### Data Link Standards Additional Hardware Options

In addition to the standard rack mounted server configuration, TCG ATR can be configured as a laptop or desktop computer – such as a Dell® Precision Notebook or Dell T7920, 16 GB RAM, 500 GB SSD drive, Ethernet, DVD/RW, and 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](http://Curtiss-Wright) for ordering information.

## TCG (ATR)