

TCG GTS®

Ground tactical data link system
Data Links Simplified



Key Features

- Multi-link message processing
- Track and message simulation
- Live-Virtual-Constructive (LVC)
- RF and IFF processing
- Record/playback
- Terminal housing case
- Remote client/server support
- Terminal Control Wizard (TCW)
- Link 16 Voice Control Unit
- External Time Reference (ETR)
- Remote client support
- Network Enabled Weapons (NEW)
- Dynamic message routing

Applications

- Tactical situational display
- Training scenario generation
- Range training officer support
- Battlefield situational awareness & C2
- Network monitoring
- Flight safety

Curtiss-Wright's TCG Ground Tactical Data Link System (GTS) is an affordable, interoperable, and combat-proven solution for tactical data link (TDL) operations. Designed to enhance situational awareness, command and control (C2), and non-C2 information sharing, TCG GTS provides warfighters with a resilient, scalable TDL capability wherever it is needed.

TCG GTS is a modular suite of products supporting a broad range of TDLs and protocols, including Link 22, Link 16, Link 11, VMF, SADL, JREAP-A/C, SIMPLE, ADS-B, AIS, and DIS. Available in multiple cost-effective configurations, GTS is optimized for both fixed and mobile command centers—whether deployed down-range or anywhere a TDL capability is required.

Fully DOD-accredited, TCG GTS has full Authority to Operate (ATO) when connected to SIPRNet and is listed on the U.S. Air Force Approved Product List (APL). The system can function as a net time reference (NTR) and uniquely supports simulation over-live training by generating high-fidelity scenarios with virtual assets, C2 functions, and friendly, hostile, and neutral participants—enabling realistic training at a fraction of the cost of live operations.

In-Theater Deployment: Persistent TDL Connectivity

TCG GTS is a fully operational TDL situational awareness and C2 asset that ensures missions are never constrained by limited data link access. Multiple systems can be affordably deployed across the battlespace to maintain persistent connectivity and coverage wherever required.

A single GTS operator station can control up to 20 remote Link 16 terminals, dramatically reducing operator workload while significantly expanding situational awareness and operational coverage. This centralized control model enables efficient force coordination without sacrificing responsiveness or performance.



Flexible, Modular Architecture

Built on a scalable, modular architecture, TCG GTS allows multiple units to share a single TDL radio or terminal. Multiple client workstations can be deployed per unit, leveraging the system's powerful TDL processing engine to control connected radios and terminals. This approach maximizes resource utilization while optimizing situational awareness and C2 effectiveness across the force.

Advanced Training & Simulation

TCG GTS fully supports “train as you fight” concepts by providing realistic TDL networks populated with virtual C2 assets, targets, threats, and operational traffic tailored to specific tactics, techniques, and procedures (TTPs).

By injecting simulated data into live TDL networks, GTS delivers a high level of realism while reducing dependence on scarce, high-demand assets such as airborne early warning, ISR, and tanker aircraft. Its LVC capability enables routine simulation of assets not typically available for daily training, including AWACS, enemy surface to air missile systems, and other friendly, hostile, and neutral forces.

Scenarios may be pre-scripted and interactively controlled by the operator, enabling robust, repeatable training at the squadron or unit level. Significant cost savings are realized through reduced flight hours, lower operations and maintenance costs, and minimized reliance on live assets.

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.

Ordering Information

Contact Curtiss-Wright for ordering information.

Specifications

Terminal and Interface Support

- Link 16 MIDS LVT1
- Link 16 MIDS LVT2
- Link 16 MIDS LVT3
- MIDS JTRS
- Small Tactical Terminal (STT)
- TacNet Tactical Radio (TTR)
- Link 11 ATDS/NTDS
- TTNT support
- JREAP-A and JREAP-C
- Link 22
- VMF
- SADL
- SIMPLE
- DIS
- ADS-B
- AIS

Hardware Components

- Single, dual, or triple case
- IPS safe mounting option
- Slide-out dual monitors, keyboard, and trackball
- Rack-mounted computer
- Power, cooling, and UPS
- Internal temperature sensors
- MIDS remote control unit with remote reprogramming
- Terminal voice control
- Remote J-voice
- Rolling cart
- Link 16 standing antenna and cables
- SAASM available
- LTTI switch
- 24-port POE 10/100/1G Ethernet
- Crypto zeroize/hold standby
- Crypto fill

TCG-GTS

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