



TCG HUNTR

Translation Gateway for Multiple Tactical Data Links Data Links Simplified

TDL Hub and Network Translator

Curtiss-Wright's TCG HUNTR™ tactical data link (TDL) Hub and Network Translator is an intelligent translation gateway for multiple TDLs. Using patented forwarding technology it is the only gateway on the market that addresses all the technical challenges and usability issues plaguing legacy gateways.

The extreme simplicity and automation of TCG HUNTR gives users exactly what they need — fast and easy access to relevant TDL data at the tactical edge of the battlefield and other military environments with minimal personnel, minimal training, and almost no expertise required.

TCG HUNTR supports automatic routing, forwarding, and translation of Link 16 J-Series, Link 22 F/J-Series, Link 11 M-Series, VMF K-Series, Cursor-on-Target, and CESMO messages.

HUNTR also automates processing and translation of multiple, simultaneous Digitally-Aided Close Air Support (DACAS) missions between ground JTAC kits equipped with VMF or CoT radios and air/land/sea Link 16 or Link 22 assets. HUNTR automatically converts VMF 9-lines into multiple Link 16/22 messages and automatically updates and maintains PPLI and surveillance tracks and command and control (C2) messages.

HUNTR provides up-to-date and accurate contextual translations of relevant link data that take bandwidth limitations into account rather than awkward and cumbersome word-by-word translations that can consume high amounts of bandwidth and result in network congestion and information overload. The clear and easy-to-understand interface minimizes complexity and presents pertinent mission information in a highly visible and simplified way. With push-button start up and fully automated TDL network and radio configuration and management, HUNTR is fully operational within seconds with no TDL experts required.

Key Features

- Multilink tactical gateway
- Link 16, Link 22, Link 11, JREAP, SADL, Serial-J, VMF, CoT, CESMO, TAK Server
- Intuitive operator interface
- DACAS, SA, and C2
- Automatic translation and routing

Applications

- Airborne, land, sea-based tactical gateway
- Expanded situational awareness from multiple tactical data links
- Cross-link TDL support



Figure 1: Example usage of the TCG HUNTR gateway

Specifications

Link 16

- J message MIL-STD-6016 C, D, E, F, G
- MIL-STD-6020 Data Forwarding
- JREAP-A and JREAP-C MIL-STD-3011
- SADL/EPLRS
- Serial-J

VMF

- K message MIL-STD-6017 A, B
- MIL-STD-2045-47001 B, C, D CN1
- MIL-STD-188-220 C, D CN1
- ECP-1, ECP-2, ECP-5, ECP-11
- UDP over IP and IP waveforms
- Automatic multi-stack management
- Multi-Channel support

Link 22

- SNC interface, NU, NMU, SNMU

Cursor on Target (CoT)

- CoT v2.0 schema including platform-specific enhancements
 - MIL-STD-6090
 - CoT Protobuf
 - TAK Server
- TCP and UDP Multicast, Unicast

Cooperative ESM Operations (CESMO)

- CESMO AEDP-13
- UDP over IP and IP waveforms
- MIL-STD-188-220 C, D CN1

Supported Radios and Kits

- Link 16 Terminals
 - MIDS JTRS
 - MIDS LVT-1, LVT-2, LVT-3
 - TacNet Tactical Radio (TTR)
 - Viasat MOJO, MOJO Mini, MOJO NEXT

- L3Harris BATS-D (AN/PRC-161)
- L3Harris KOR-24 (STT)
- SADL EPLRS and SADL MicroLite
 - Gateway and Generic Host modes
- Falcon III
 - AN/PRC-117, AN/PRC-152, AN/PRC-158

ARC-210

- Combat Net Radio (CNR)
- Radios that support IP waveforms
- THSv2, A-PASS, ATAK, WINTAK, KILSWITCH, and more

Additional Support

- Geographic and Message-based filtering
- Simultaneous Digitally-Aided Close Air Support (DACAS) missions
- Manned, Unmanned Teaming Hub
- Harris SA
- TSM, TSMX, Silvus, MOVR, Omni

TCG HUNTR™