



TCG BOSS®

Battlefield Operations Support System

Key Features

- Multi-link message processing
- Track and message simulation
- Offline and Sim-over-Live scenario generation
- RF and IFF processing
- Record/playback
- Remote client/server support
- Real-time Pseudo Track support
- Terminal Control Wizard (TCW)
- Network Time Reference (NTR)
- Network Enabled Weapons (NEW)
- Desktop, notebook, or rack mount
- Terminal control and emulation
- Dynamic message routing and filtering
- Multi-terminal control

Applications

- Multi-link network simulation
- Tactical situational display
- Terminal emulation and control
- Range training officer support
- Network monitoring, simulation, and testing

DL Network Simulator and Exerciser

Curtiss-Wright's TCG BOSS tactical data link (TDL) testing and platform integration solution allows military end users and prime contractors to verify that the TDL implementations being delivered on aircraft and other military platforms conform to Link 16, Link 11, Link 22, VMF, JREAP, SIMPLE, SADL, DIS, and related TDL standards and interface definitions. TCG BOSS is the worldwide standard for TDL testing and is a powerful TDL network simulator and exerciser capable of creating a complete and highly realistic test environment including virtual command and control (C2) assets, network enabled weapons, targets, threats, and simulated network participants.

Robust Simulation and Scripting

The integrated multi-TDL network simulation capability provides industry leading ease-of-use, allowing for complex test cases/scripts to be created in a matter of minutes versus hours. TCG BOSS provides comprehensive message scripting/generation, network simulation, and real-time and post-test monitoring and analysis from a single system.

Minimize Training

TCG BOSS's familiar Windows 11-based GUI, combined with a comprehensive yet simplified approach to TDL interaction, provides the most time saving and intuitive user experience for TDL testing, minimizing training time.

Ready Now

Over 500 TCG BOSS systems are deployed and in operation worldwide. Certification and testing agencies such as Joint Interoperability Test Command (JITC), Air Force System Interoperability Test (AFSIT), AF DT/OT (461412), Navy (China Lake, SAIL, NELO) use the TCG BOSS as the standard verification, validation, and certification tool. Prime contractors such as Boeing, Northrop Grumman, and Lockheed Martin also use TCG BOSS for platform integration testing.

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.



Additional Features

TCG BOSS can test the entire set of J-series (Link 16), M-Series (Link 11), and F/J Series (Link 22) messages. Additionally, many of the common K-Series (VMF) messages are also supported. With emulation and simulation support of weapon engagement, including pre-launch, launch, handoffs, loiter, redirect/ retarget, engage, abort, and assessment sequences, TCG BOSS provides both direct and simulated weapon generation and control. Automated message interaction is also standard.

Key features include:

- Track and message simulation
- Automatic correlation and decorrelation
- Geographic and data-specific filtering
- Automatic and Manual engagement control
- Offline and Sim-over-Live scenario generation
- Record/Playback
- Remote client/server support

Data Link Standards

- MIL-STD-6016 B, C, D, E, F, G (Link 16)
- MIL-STD-6011 B, C, D (Link 11)
- MIL-STD-6020 (Forwarding)
- MIL-STD-3011C (JREAP-A and JREAP-C)
- MIL-STD-6017 A, B (VMF)
- MIL-STD-188-220 A, B, C, D Ch1
- MIL-STD-2045-47001 A, B, C, D Ch1
- MIL-STD-1553B (1553 Bus)
- STANAG 5602 (SIMPLE)
- STANAG 5516 (Ed 3 and 5)
- STANAG 5522, ATDLP 5.22 (Link 22)
- MTC v2

Specifications

Terminal and Interface Support

- Link 16 MIDS LVT-1
- Link 16 MIDS LVT-2
- Link 16 MIDS LVT-3
- MIDS JTRS
- Small Tactical Terminal (STT)
- TacNet® Tactical Radio (TTR)
- Link 11 ATDS/NTDS
- JREAP-A and JREAP-C
- Socket-J and Serial-J
- VMF
- Link 22 SNC
- SADL
- SIMPLE
- DIS
- ADS-B
- AIS

Ordering Information

Contact [Curtiss-Wright](#) for ordering information.

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