



# Tactical Data Links Studio (TDLS)

## Aeronix Tactical Data Links Studio Changes the Game

A flexible studio that decodes, visualizes, and validates multiple standards in one environment meets the demand for multi-protocol testing and certification.

In today's battlespace, success depends on seamless connectivity across multiple domains—air, land, sea, cyber, and space. Yet most tactical data link tools remain fragmented, expensive, and limited to a single protocol or vendor ecosystem.

*The Aeronix Tactical Data Links Studio isn't just software—it's your lab, classroom, and certification partner in one. Whether you're building the next edge gateway, training tomorrow's operators, or preparing for coalition interoperability, our studio ensures you are mission-ready, faster, and with confidence.*

### Value

**Reduce Risk** - Catch errors & incompatibility before deployment.

**Save Money** - Replace multiple expensive, proprietary tools with one flexible solution.

**Move Faster** - Train, develop, & validate at the speed of modern operations.

**Flexible & Future-Proof** - Designed for today's standards and tomorrow's multi-domain fight.

## Unlock the Future of Interoperability, Training, and Testing

### Why Tactical Data Links Studio?

- **One Environment, All Protocols** Decode, generate, and visualize Link 16, VMF, CoT, CESMO, IDM, and more—all in a single platform. No more juggling multiple tools or licensing silos.
- **Accelerated Training & Simulation** From classrooms to test ranges, give operators and engineers a hands-on environment to simulate networks, script traffic, and rehearse scenarios with ease.
- **Faster Development, Smarter Testing** Rapidly prototype new gateways, translations, and custom messages without writing custom code or waiting on hardware. Validate performance in minutes, not months.
- **Compliance & Certification Support** Streamline Joint Interoperability Certification (JIC) prep with tools for message injection, log replay, and error path visualization—cutting test time and cost.
- **Real-Time Insights** See tactical message flows like never before. With graphical sequence diagrams, timelines, and protocol drill-downs, turn raw data into actionable intelligence instantly.
- **Radios Characterization**
  - Measure, log, and analyze VMF radio performance at the message, waveform, and link layer.
  - Identify timing delays, dropped packets, and protocol compliance issues before fielding.
- **Cross-Platform Evaluation**
  - Compare radios from multiple vendors under identical conditions, creating a neutral baseline for acquisition and certification.
- **Track Transmission Mapping**
  - Monitor where, when, and how tracks propagate across networks—Link 16, VMF, CoT, CESMO.
  - Visualize track handoff and correlation in real time.
- **Network Visualization**
  - See tactical nodes, gateways, and radios as dynamic icons on a map, with color-coded track updates and message latencies.
- **Debug & Validate**
  - Prove that track data maintains fidelity and timing integrity as it moves through multi-protocol gateways.

The information in this document is subject to change without notice. Contact Aeronix for latest details.