Aerospace TSN Training

Comprehensive hands-on training for industry professionals

Immersive 2-day training for industry professionals with and without previous experience. Designed from a system integrator perspective covering all aspects of time-sensitive networking including standards, design principles, configuration, instrumentation, evaluation, and hands-on experimentation.

Session 1: Comprehensive TSN Tutorial
- Introduction to time-sensitive networking
- Technical deep dive into IEEE 802.1 TSN standards
- Review of aerospace TSN standards
- 4 hour on-site or virtual session

Session 2: TSN Configuration Training
- Overview of relevant TSN configuration standards
- Chronos configuration tool tutorial
- Chronos hands-on training with realistic examples
- 4 hour on-site or virtual session

Session 3: Hardware Demonstration
- TSN implementation over a multi-vendor testbed
- Network engineering and configuration
- Instrumentation and performance evaluation
- 4 hour on-site session

Session 4: Customized User Training
- Hands-on experimentation with TSN testbed
- User defined scenario development and analysis
- Confidential Q&A
- 4 hour on-site session
## Training Details

### Training options
- Basic 1 day package: includes session 1 and 2 for up to 10 attendees
- Advanced 2 days package: includes sessions 1, 2, 3, and 4 for up to 10 attendees
(Note: contact sales for on-site and virtual options)

### Software included
- Chronos trial license (7 days)
- Helios trial license (7 days)

### Standards covered
- IEEE Std 802.1AS Time Synchronization
- IEEE Std 802.1CB Frame Replication and Elimination
- IEEE Std 802.1Q Bridges and Bridged Networks
- IEEE Std 802.1Qav Credit-Based Shaper
- IEEE Std 802.1Qbv Time-Aware Scheduling
- IEEE Std 802.1Qci Per Stream Policing and Filtering
- IEEE Std 802.1Qcc TSN Configuration
- IEEE Std 802.1Qcw YANG Data Models

### Aerospace specific
- IEEE P802.1DP/SAE AS6675: TSN for Aerospace Onboard Ethernet Communications
- SAE AS6509: Converged Aerospace Integrated Networks

### Hands-on training components
- Chronos Toolset
- TSN Testbed

### Network analysis
- End-to-end scheduling and visualization
- Network and link utilization
- Latency and Jitter
- Traffic visualization
- Time synchronization