

VIAVI TTsuite-Redundancy

Test Conformance of Automotive, Industrial and Telecom Applications Against IEEE FRER TSN Standards

TTsuite-TSN-Redundancy is a solution for Conformance Testing of network devices (end station or bridge) against TSN Frame Replication and Elimination for Reliability (FRER) standard IEEE802.1CB.

This solution is very easy to automate and includes ready-to-be executed predefined scenarios from which the user can simply select.

Application Areas

Time-sensitive networking is a collection of protocols defined by IEEE with applicability in many verticals like:

- **Automotive** – Advanced driver-assistance systems (ADAS), X-By-Wire, autonomous driving
- **Industrial** – Smart manufacturing, smart grid, industrial automation, industry 4.0
- **Telecom** – Transport time-sensitive fronthaul streams over Ethernet bridged networks

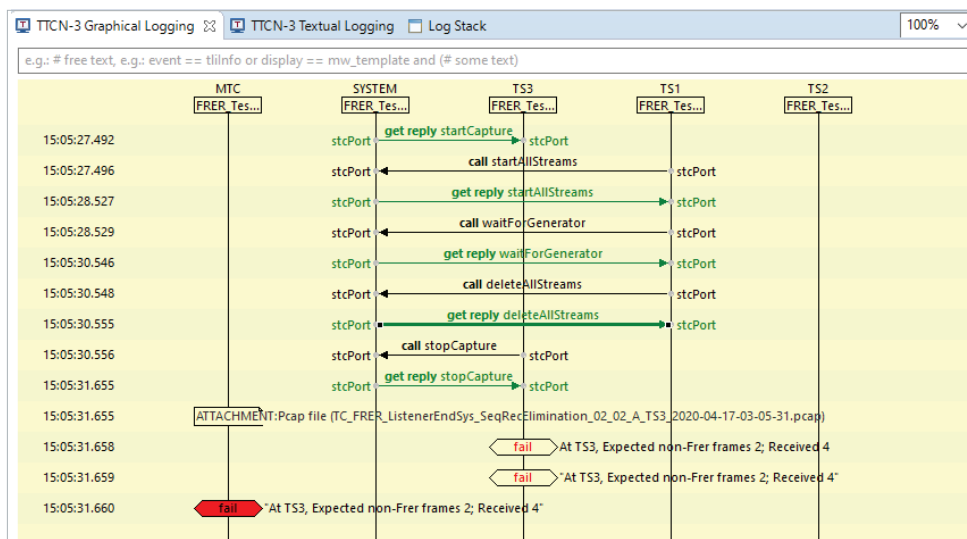
TSN defines a set of protocols to ensure reliability of network transmission through seamless or non-seamless redundancy.

Features

- **Transmission tests** to verify sequence generation and splitting capabilities of DUT
- Sequence generation and duplication tests
- **Reception tests** to verify sequence recovery and elimination capabilities of DUT
 - Sequence recovery and elimination tests

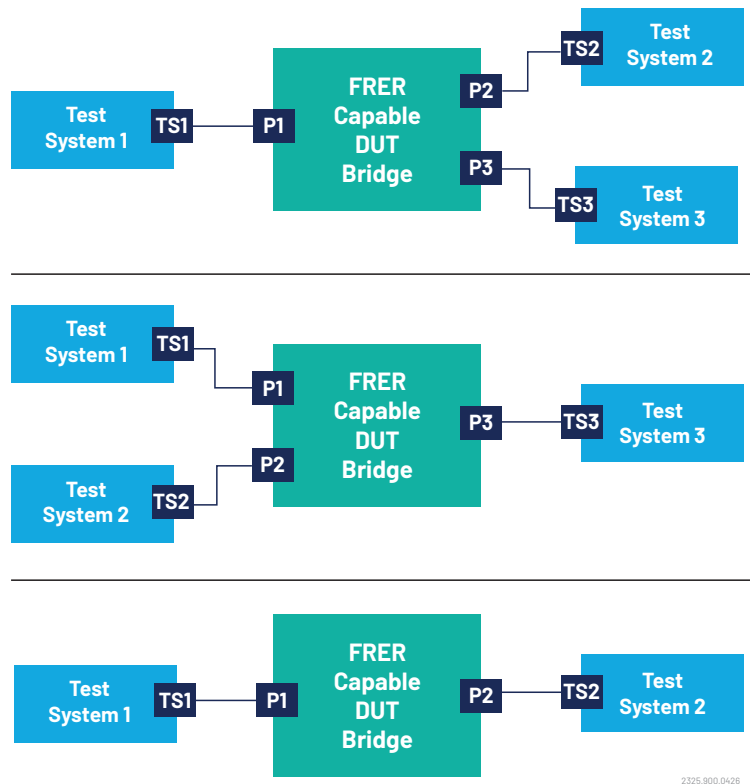
Technical Specifications/Standards

- Seamless redundancy (IEEE 802.1CB-2017)



Benefits

- Predefined test scenarios covering the IEEE standards
- Fully automated testing that can be seamlessly integrated into existing test infrastructures
- Bridge and end station tests (an Upper Tester is required for end station tests)
- PCAP files with complete traffic (including the timing protocol) are appended in the log of each test case execution
- Future-proof: Extensible for different profiles (IEEE, Avnu Alliance or IIC)
- Visual failure analysis and correction
- Test report creation with multiple customization options



Ordering Information

Part Number	Description
TEC-SUITE-TSN-RED	TTsuite-TSN-Redundancy
TEC-SVC-1015-TS-1Y	TTsuite Support and Maintenance 1 Year
TEC-TT-WP	TTworkbench Professional Platform
TEC-SVC-1015-WB-1Y	TTworkbench Support and Maintenance 1 Year



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