

VIAVI TTsuite-TSN-Filtering and Policing

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

The IEEE 802.1Qci standard for per-stream filtering and policing defines supervision functions to protect TSN networks against overloading by misbehaving device (babbling idiot problem).

These functions allow TSN switches to monitor traffic on their ports and to initiate protection actions for the network, if a misbehaving device is detected. Example protection measures could be partial or complete blocking of traffic for the misbehaving device.

Application Areas

Filtering and Policing is one of the core TSN standards.

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

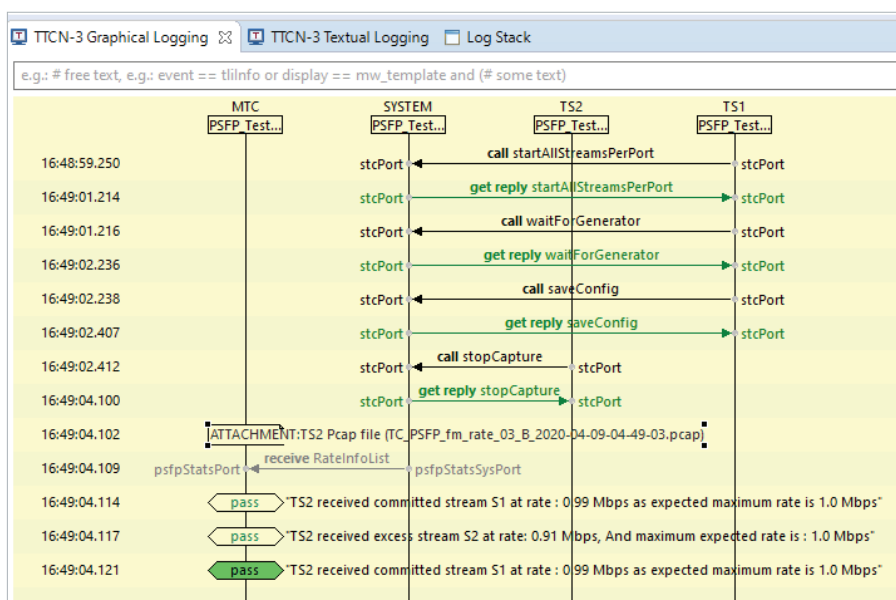
- **Automotive** – Advanced driver-assistance systems (ADAS), X-By-Wire, autonomous driving
- **Industrial** – Smart manufacturing, smart grid, industrial automation, industry 4.0
- **Telecom** – Transport time-sensitive fronthaul streams over Ethernet bridged networks

Features

- Flow meters conformance testing
- Flow meters bandwidth
- Reception and transmission at different rates (EIR, CIR)

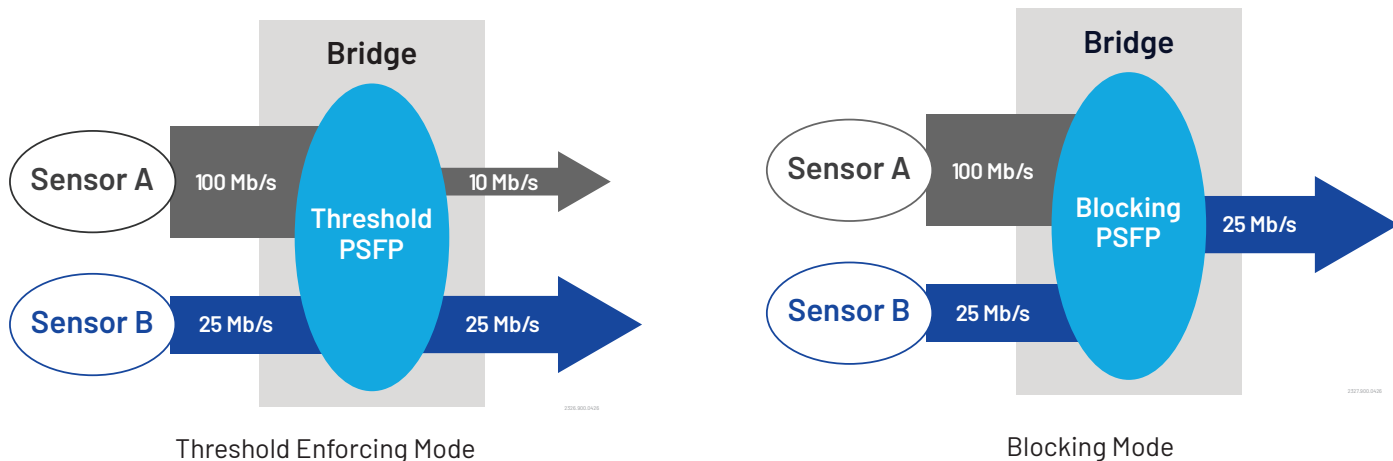
Technical Specifications/Standards

- IEEE 802.1Qci-2017
 - IEEE Standard for Local and metropolitan area networks – Bridges and Bridged Networks – Amendment 28: Per-Stream Filtering and Policing



Benefits

- Predefined test scenarios covering the IEEE 802.1Qci-2017 standard
- 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-FP	TTsuite-TSN-Filtering and Policing
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



Contact Us: +1 844 GO VIAVI | (+1 844 468 4284). To reach the VIAVI office nearest you, visit viasolutions.com/contact

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ttsuite-tsnfiltering-ds-hse-nse-ae
30195058 900 0426

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