

# Spirent TTsuite-TSN-FilteringAndPolicing 1.4.0

## 2020-08-19 Release Notes

We are happy to announce the immediate availability of **TTsuite-TSN-FilteringAndPolicing version 1.4.0**.

### What's new?

- Addition of Stream Filter test cases
- Support for TTworkbench 29
- Quality improvements and defect fixes to existing PSFP test cases related to Flow Meter

This release contains test cases for the following PSFP capabilities:

### Test cases to validate Flow Meter

- **Reception tests** (to verify the DUT PSFP's Flow Meter behavior)
  - Flow Meter Burst tests (to verify that the DUT accepts/drops as per CBS/EBS configurations)
  - Flow Meter Drop On Yellow & Red tests (to verify that the DUT drops packets as per Drop color configurations)
- **Transmission tests** (to verify that the DUT is transmitting at CIR/EIR rates)
  - Flow Meter Rate tests (to verify that the DUT sends at configured rates)

### Test cases to validate Stream Filter

The test cases for Stream Filter cover the validation of the filtering and policing actions applied to the received stream by DUT, based on

- Elements like Stream Handle and Priority of the stream
- State of the Stream Gate Instance for specific priorities specified in the DUT's Stream Instance Table
- Actions specified under Filter Specifications (like Flow Meter)
- Behavior of supporting flags

The test cases also validate the behavior of Frame counters in Stream Filter Instance Table based on the DUT's response to filtering and policing actions on the received stream.

### Upcoming in next releases:

- Stream Gates tests (to validate the PSFP behavior of Stream Gates on DUT based on the priority of the received Stream, state of the gate and other supporting elements)

## Application Areas

*Per-Stream Filtering and Policing* (Qci) 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

## IEEE Standards

TTsuite-TSN-FilteringAndPolicing provides a full test coverage for:

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

Before using TTsuite-TSN-FilteringAndPolicing, it is recommended to get familiar with following standards too:

- **IEEE 802.1CB-2017** — IEEE Standard for Local and metropolitan area networks -- Frame Replication and Elimination for Reliability
- **MEF Technical Specification 10.3** (MEF 10.3), Ethernet Service Attributes Phase 3

## Download TTsuite-TSN-FilteringAndPolicing

To download the latest version of TTsuite-TSN-FilteringAndPolicing, you need to register yourself in the Spirent Customer Service Center at <https://support.spirent.com>. Afterwards, please follow these detailed instructions on [How to download TTworkbench, TTsuites & TTplugins](#).

Please be aware that TTsuite-TSN-FilteringAndPolicing requires at least **TTworkbench version 29**.

Please direct all questions and inquiries to our support team at [support@spirent.com](mailto:support@spirent.com) with *TTworkbench* in your subject line beside your topic to ensure fast response times.

If you prefer to call our customer care department, please dial [+49 30 726 19 19 0](tel:+493072619190).

It is Spirent's intention to provide you with the highest level of customer service.

Thank you for your continued interest!

## Notes

This document is subject to change without notice.

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