

IxNetwork TSN Test Case Coverage Matrix



TSN Standard	Broad Coverage Area	Scenarios Covered
IEEE 802.1AS - Timing & Synchronization	<ul style="list-style-type: none"> Sequence Id validation Pdelay request interval validation Announce message validation Message packet format validation 	15
IEEE 802.1AS-Rev - Timing & Synchronization for TSN	<ul style="list-style-type: none"> Domain number validation PTP Message Header Validation 	7
IEEE 802.1Qbv - Time Aware Shaper	<ul style="list-style-type: none"> Verification of Gate Open & Gate Close States Verification of queueMaxSDU Verification of minimum & maximum cycle time Verification of transmission window Verification for Window Violation 	22
IEEE 802.1Qci - Per Stream Filtering & Policing	<ul style="list-style-type: none"> Verification of "GateClosedDueToInvalidRx" scenario. Verification of "GateClosedDueToOctetsExceeded" scenario Verification of "StreamBlockedDueToOversizeFrame" scenario 	15
IEEE 802.1CB - Frame Replication & Elimination for Reliability	<ul style="list-style-type: none"> Verification of Stream Identification Function Verification of Stream Replication Verification of Stream Recovery Function 	18
IEEE 802.1Qbu - Frame Preemption	<ul style="list-style-type: none"> Testing the reassembly capability of a Frame Preemption Capable Device 	17
IEEE 802.1Qcc/Qcw	<ul style="list-style-type: none"> Verification for Configuration Update over Netconf 	1

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This document uses inclusive terminology. The terms 'timeTransmitter,' 'leader,' and 'master' refer to the same thing, but we are using the most inclusive terminology. The terms 'timeReceiver,' 'follower,' and 'slave' refer to the same thing, but we are using the most inclusive terminology.



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