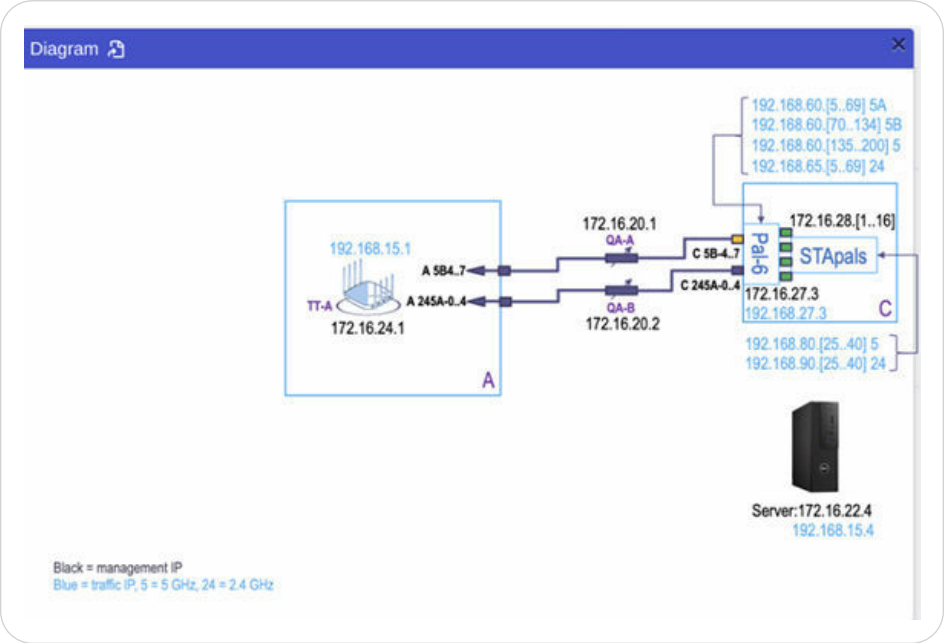
DATASHEET

Spirent OCTOBOX RFC 2544

OCTOBOX RFC 2544 automation package

RFC 2544 defines a specific set of benchmark tests that can be used to evaluate equipment performance. Having a set of industry supported tests built around the standards is important. This automation package defines a set of 4 tests - Throughput, Latency, Frame Loss Rate, and Back-to-back frames. Networks referred in RFC 2544 can be Local Area Networks (LAN) or Wide Area Networks (WAN).



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Key Features

- Four basic tests iterating frame sizes; 64, 128, 256, 512, 1024, 1280, 1518 for uplink and downlink.
- Multiple station traffic groups for all test cases with offered load adjustment calculated to limit frame loss.
- Based on RFC-2544

Features

- Measures the routing engine of the wireless router
- Focused on single router testing

Throughput (Most popular test)

Throughput test is self-explanatory with one key component. The test will test, measure, and calculate the optimal speed with which the target DUT has maximum throughput without packet loss. This allows the vendor to understand the maximum throughput behavior of their device under test (DUT). The key element of the test is a binary search with each iteration of the test, for each packet size tested, monitoring for zero packet loss.

Back-to-Back

This tests the vendor (DUT) behavior with burst traffic, or better known as buffered operations. The back-to-back value is the number of frames in the longest burst that the DUT will handle without the loss of any frames.

Frame Loss

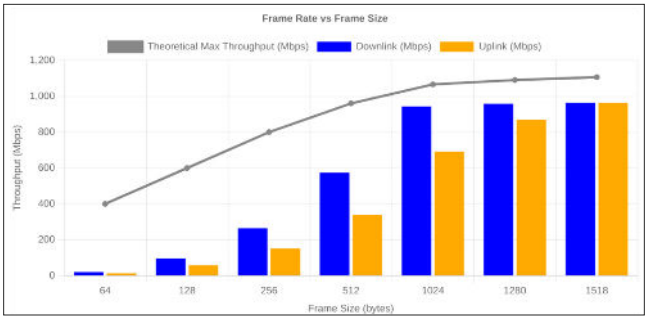
This test uses the determined maximal frame rate from the throughput test. It should always be run in conjunction with the throughput test. The offered load is reduced until the percent packet loss is 1%.

Latency

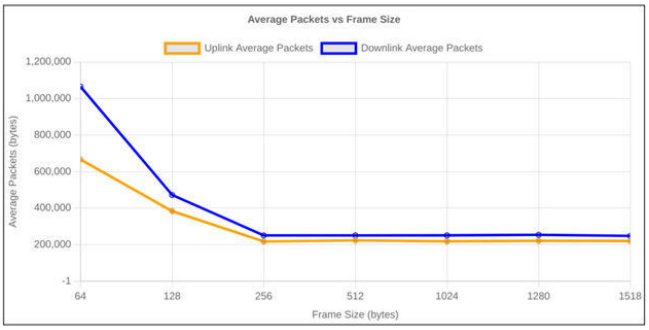
Latency is the delay between the frame being set and its reception on the other end of the measured link. The user selects the initial offered load for the latency test.

Each of these automated packages are sold independently and are all eligible for TaaS Service. Contact your Spirent sales representative and reference testbed configurations.

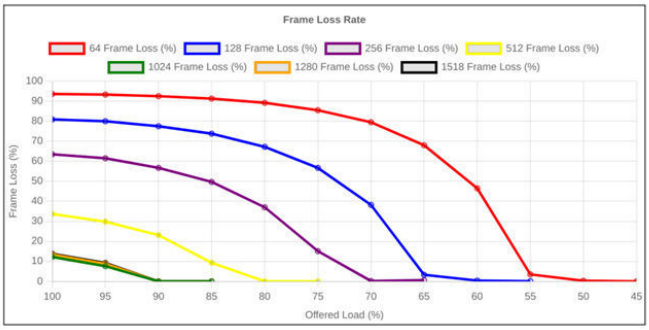
Throughput (Most popular test)



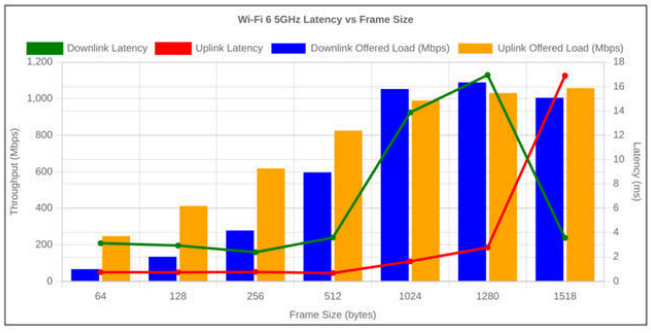
Back-to-Back - Wi-Fi 6 5GHz: Average Packet Size Test Report



Frame Loss - Wi-Fi 6 5GHz: Uplink Frame Loss Rate



Latency - Wi-Fi 6 5GHz: Latency Test Results



Americas 1-800-SPIRENT
+1-800-774-7368 | sales@spirent.com

Europe and the Middle East
+44 (0) 1293 767979 | emeainfo@spirent.com

Asia and the Pacific
+86-10-8518-2539 | salesasia@spirent.com

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