

## LANforge Results

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## WiFi Related Reports

### Executive style test reports

#### Dataplane Throughput Test

Automated test of throughput over different packet sizes, spatial streams, attenuation, rotation and more.

[Example Dataplane Report](#)

#### Hunt Latency Test

Automated test to find maximum throughput and then test latency at a percentage of that speed. [Example Hunt](#)

[Report](#)

#### Dataplane Throughput vs Orientation

Automated test of throughput over different DUT orientations. Requires turntable. [Example Throughput vs](#)

[Orientation](#)

#### WiFi Receiver Sensitivity

Automated test that tests receiver sensitivity at different encoding rates, NSS, attenuation, rotation and more.

[Example Receiver Sensitivity Report](#)

#### WiFi Rate vs Range

Automated throughput test at different RF signal levels. Good for testing rate control algorithms. [Example Rate vs](#)

[Range Report](#)

#### WiFi Capacity Test

Automated test with increasing amounts of stations to see how well the Access Point scales. [Example WiFi](#)

[Capacity Report](#)

#### Port Reset Test

Automated test that brings WiFi stations or other ports up and down. This is a good stability test of the

management and authentication layers. [Example Port Report](#)

#### Roaming Performance

Automated station directed roaming, including 802.11k/v/r support. [Example Roam Report](#)

#### AP-Auto Automated Tests

A series of automated tests for AP testing, similar to TR-398, but requiring less equipment and no need for extra software license. Many tests have built-in pass/fail reporting.

- **Basic Client Connectivity:** Bring up many stations, report connect time.
- **Throughput vs Packet Size:** Hunt to find the best throughput at different packet sizes.
- **Dual-Band Performance:** Test performance on both bands concurrently to make sure DUT can handle the load.
- **Capacity:** Report throughput with different numbers of stations.
- **Stability:** Generate traffic on all stations, while periodically resetting the stations. Good for finding stability bugs. [Example Stability report](#).
- **Long Term:** Start throughput test on one or more stations and monitor it while it runs.

[Example AP-Auto Report](#)

#### Automated TR-398 Test

A series of automated tests for AP testing. Requires turntable, attenuators and 6 LANforge radios to run a complete set of tests. A subset of the tests can be run with less equipment, including over-the-air tests. [Example TR-398 Report](#)

#### **Automated Mesh Test**

A series of automated tests for AP mesh testing. Requires attenuators and RF chambers to run a complete set of tests. Includes automated mobility along pre-defined and random paths, MCS, RSSI, throughput and other results. [Example Mesh Report](#)

#### **Packet Captures**

Create wifi monitor interfaces and launch Wireshark with the click of a button, and run automated diagnostics script on packet capture files.

#### **VOIP/Video Quality**

#### **Real Application Performance**

## **Spreadsheet (XLSX) and Similar Reports**

#### **WiFi ToS Testing**

Automated test of performance of different ToS (BK, BE, VI, VO) data streams. Spreadsheet report shows detailed latency reports to show how better ToS gives better performance. [Example Xlsx ToS Report](#)

## **Non-WiFi Traffic Generation Reports**

#### **10g Dataplane traffic Test**

Automated test of performance of different packet sizes on a 10G network. [Example 10g Dataplane Report](#)

For more information, please contact [sales@candelatech.com](mailto:sales@candelatech.com) or give us a call at: 1-360-380-1618

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