

Dataplane Test

Thu May 12 00:26:23 PDT 2022



| Test Setup Information | | | | |
|------------------------|------------------|--|------------------|--------------|
| Device Under Test | Name | webui90 | | |
| | Software Version | TIP-devel-d5d7721 | Hardware Version | wifi6 |
| | Model Number | edgecore_eap101 | Serial Number | 903cb36c46da |
| | SSIDs | open open [] ssid_wpa_5g_vlan ssid_wpa2_2g_vlan ssid_wpa2_5g_vlan | | |
| | Passwords | [] [] [] something something something | | |
| | BSSIDs | 90:3c:b3:6c:46:dd 90:3c:b3:6c:46:de [] 92:3c:b3:6c:46:de 96:3c:b3:6c:46:dd 96:3c:b3:6c:46:de | | |
| | Notes | [BLANK] | | |

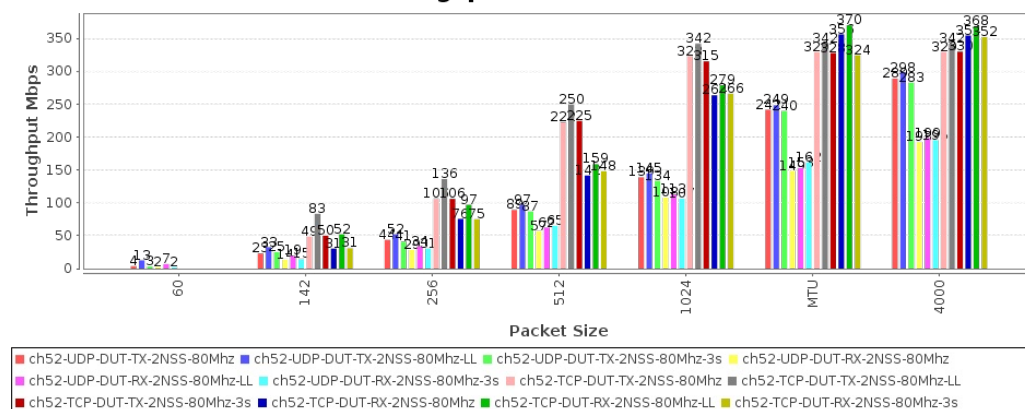
Objective

The Candela WiFi data plane test is designed to conduct an automatic testing of all combinations of station types, MIMO types, Channel Bandwidths, Traffic types, Traffic direction, Frame sizes etc... It will run a quick throughput test at every combination of these test variables and plot all the results in a set of charts to compare performance. The user is allowed to define an intended load as a percentage of the max theoretical PHY rate for every test combination. The expected behavior is that for every test combination the achieved throughput should be at least 70% of the theoretical max PHY rate under ideal test conditions. This test provides a way to go through hundreds of combinations in a fully automated fashion and very easily find patterns and problem areas which can be further debugged using more specific testing.

Throughput for each different traffic type. Datasets with names ending in '-LL' will include the IP, TCP, UDP and Ethernet header bytes in their calculation. For Armageddon traffic only, low-level throughput includes the Ethernet FCS and preamble. Other datasets report 'goodput' for the protocol.

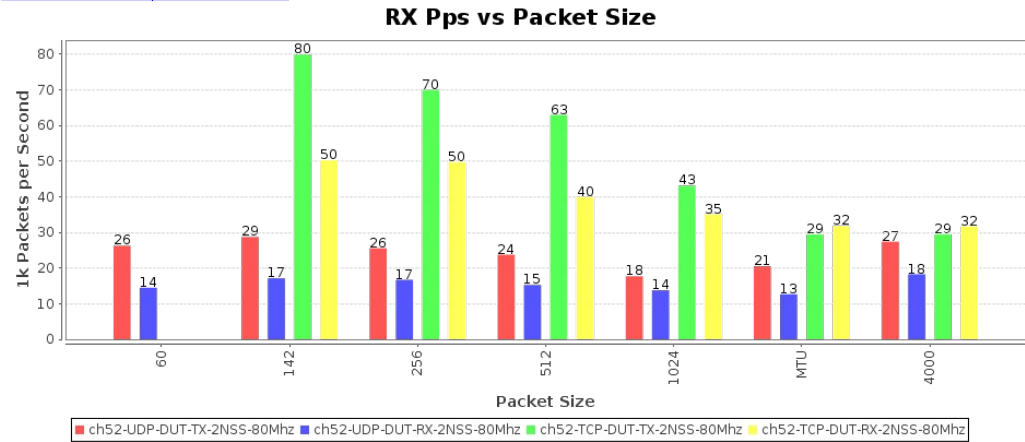
[CSV Data for Throughput vs Packet Size](#)

Throughput vs Packet Size



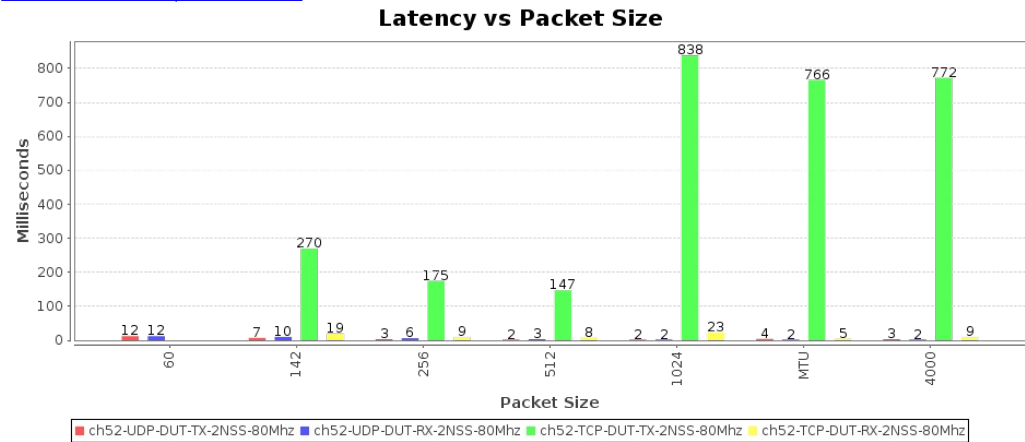
Pps throughput for each different traffic type. The values are estimated packets-per-second over the DUT, but some protocols such as TCP make this difficult to know for certain, so the value is extrapolated.

[CSV Data for RX Pps vs Packet Size](#)



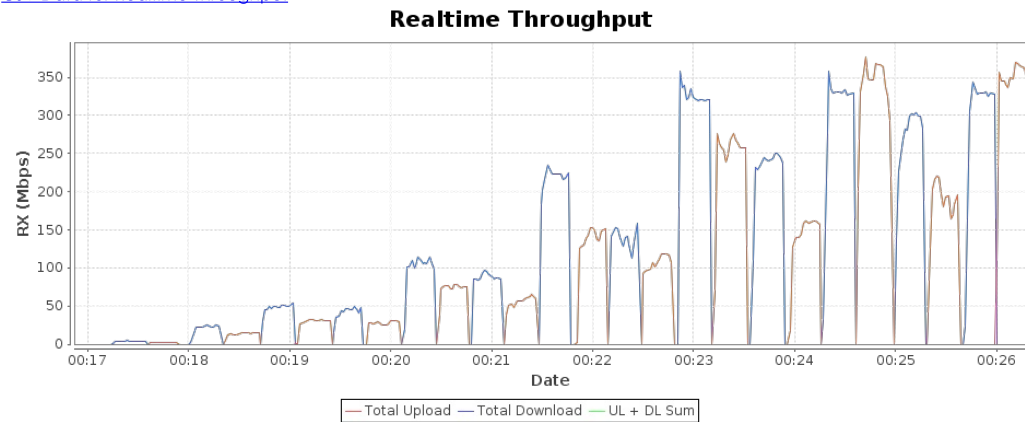
Latency for each different traffic type. If opposite-direction traffic is non-zero, then round-trip time will be reported. Otherwise, one-way latency will be reported.

[CSV Data for Latency vs Packet Size](#)



Realtime Graph shows summary download and upload RX Goodput rate of connections created by this test. Goodput does not include Ethernet, IP, UDP/TCP header overhead.

[CSV Data for Realtime Throughput](#)



Test Information

| |
|---|
| Message |
| Starting dataplane test with: 28 iterations. |
| Skipping packet size not supported by TCP: 60 |

Skipping packet size not supported by TCP: 60

Constant values related to the table below.

Iteration-Duration 15s

CSV data focussed on throughput. The values reported are gathered at the end of the test iteration before traffic is stopped. The test iterations consider 'Received' traffic to be received in the dominant direction. So, if the iteration is DUT-TX, then Received traffic is traffic received on the Station from the AP. If the iteration is DUT-RX, then Received traffic is received on Ethernet port from DUT and sent by the station. Columns starting with RSSI are from the perspective of the Station, so Tx-Rate is the Station transmit Phy Rate, and Rx-Rate is the Phy Rate received by the station. Rpt-Mode is negotiated mode, not necessarily Phy Rate mode.

| Channel | Frequency | Security | NSS | Cfg-Mode | Bandwidth | Pkt | Traffic-Type | Direction | Atten | Rotation | Offered-1m | Rx-Bps | Rx-Bps-1m | Rx-Bps-LL | Rx-Bps-3s | RSSI | Tx-Failed | Tx-Failed% | Tx-Rate | Rx-Rate | Rpt-Mode | Rpt-Mode-Brief |
|---------|-----------|----------|-----|----------|-----------|------|--------------|-----------|-------|----------|--------------|--------------|--------------|--------------|--------------|------|--------------|------------|------------|----------|-------------|----------------|
| 52 | 5260 | Open | 2 | AUTO | 80 | 60 | UDP | DUT-TX | NA | NA | 3.759 Mbps | 3.754 Mbps | 3.78 Mbps | 12.599 Mbps | 3.46 Mbps | -28 | 0 / 432178 | 0 | 351 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 60 | UDP | DUT-RX | NA | NA | 2.069 Mbps | 2.072 Mbps | 2.083 Mbps | 6.943 Mbps | 2.133 Mbps | -25 | 0 / 221555 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | UDP | DUT-TX | NA | NA | 22.863 Mbps | 22.782 Mbps | 22.964 Mbps | 32.609 Mbps | 25.115 Mbps | -28 | 0 / 451465 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | UDP | DUT-RX | NA | NA | 13.728 Mbps | 13.664 Mbps | 13.687 Mbps | 19.435 Mbps | 14.507 Mbps | -24 | 37 / 300863 | 0.012 | 866.7 Mbps | 520 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | TCP | DUT-TX | NA | NA | 49.629 Mbps | 48.777 Mbps | 48.799 Mbps | 83.337 Mbps | 50.138 Mbps | -29 | 0 / 1287342 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | TCP | DUT-RX | NA | NA | 30.214 Mbps | 30.436 Mbps | 30.502 Mbps | 52.209 Mbps | 31.047 Mbps | -29 | 0 / 876291 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | UDP | DUT-TX | NA | NA | 43.669 Mbps | 43.383 Mbps | 43.738 Mbps | 52.322 Mbps | 41.219 Mbps | -29 | 0 / 401000 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | UDP | DUT-RX | NA | NA | 28.393 Mbps | 28.553 Mbps | 28.583 Mbps | 34.192 Mbps | 30.766 Mbps | -24 | 26 / 288611 | 0.009 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | TCP | DUT-TX | NA | NA | 105.99 Mbps | 105.731 Mbps | 106.003 Mbps | 136.248 Mbps | 106.005 Mbps | -29 | 0 / 1140026 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | TCP | DUT-RX | NA | NA | 75.685 Mbps | 75.018 Mbps | 75.616 Mbps | 97.108 Mbps | 75.103 Mbps | -29 | 0 / 798253 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | UDP | DUT-TX | NA | NA | 89.453 Mbps | 88.78 Mbps | 89.216 Mbps | 97.188 Mbps | 87.061 Mbps | -29 | 0 / 361440 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | UDP | DUT-RX | NA | NA | 57.228 Mbps | 57.041 Mbps | 57.329 Mbps | 62.453 Mbps | 65.189 Mbps | -25 | 0 / 244788 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | TCP | DUT-TX | NA | NA | 224.598 Mbps | 220.89 Mbps | 222.455 Mbps | 249.65 Mbps | 224.523 Mbps | -30 | 0 / 1016512 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | TCP | DUT-RX | NA | NA | 141.741 Mbps | 140.464 Mbps | 141.585 Mbps | 158.865 Mbps | 148.114 Mbps | -30 | 0 / 618281 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | UDP | DUT-TX | NA | NA | 138.819 Mbps | 138.139 Mbps | 138.924 Mbps | 144.866 Mbps | 133.547 Mbps | -30 | 0 / 282481 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | UDP | DUT-RX | NA | NA | 107.755 Mbps | 107.436 Mbps | 108.034 Mbps | 112.655 Mbps | 106.585 Mbps | -25 | 0 / 238181 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | TCP | DUT-TX | NA | NA | 323.834 Mbps | 321.422 Mbps | 323.129 Mbps | 341.77 Mbps | 315.16 Mbps | -30 | 0 / 687969 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | TCP | DUT-RX | NA | NA | 263.661 Mbps | 261.614 Mbps | 263.569 Mbps | 278.745 Mbps | 266.093 Mbps | -30 | 181 / 638855 | 0.028 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | UDP | DUT-TX | NA | NA | 241.679 Mbps | 240.208 Mbps | 241.622 Mbps | 248.516 Mbps | 239.842 Mbps | -29 | 0 / 380184 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | UDP | DUT-RX | NA | NA | 148.774 Mbps | 148.465 Mbps | 148.78 Mbps | 153.025 Mbps | 161.62 Mbps | -25 | 0 / 197208 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | TCP | DUT-TX | NA | NA | 345.204 Mbps | 328.653 Mbps | 329.235 Mbps | 341.962 Mbps | 327.764 Mbps | -30 | 0 / 452960 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | TCP | DUT-RX | NA | NA | 355.948 Mbps | 355.35 Mbps | 356.223 Mbps | 369.982 Mbps | 324.419 Mbps | -30 | 0 / 549828 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | UDP | DUT-TX | NA | NA | 306.717 Mbps | 289.015 Mbps | 289.059 Mbps | 298.261 Mbps | 282.954 Mbps | -30 | 0 / 467128 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | UDP | DUT-RX | NA | NA | 192.779 Mbps | 192.205 Mbps | 192.503 Mbps | 198.631 Mbps | 195.302 Mbps | -25 | 0 / 301552 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | TCP | DUT-TX | NA | NA | 346.89 Mbps | 327.675 Mbps | 329.493 Mbps | 342.232 Mbps | 329.925 Mbps | -31 | 0 / 438677 | 0 | 866.7 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | TCP | DUT-RX | NA | NA | 353.948 Mbps | 352.313 Mbps | 354.416 Mbps | 368.1 Mbps | 352.192 Mbps | -30 | 0 / 498409 | 0 | 780 Mbps | 400 Mbps | 802.11an-AC | 802.11ac |

CSV data focussed on TX and RX Link Rate and RSSI reports. The values reported are gathered at the end of the test iteration before traffic is stopped. The Phy Rate and RSSI are from the perspective of the Station, so Tx-MCS is MCS at which station is sending to the AP, and Rx-MCS is MCS at which the AP is sending to

the station.

| Channel | Frequency | Security | NSS | Cfg-Mode | Bandwidth | Pkt | Traffic-Type | Direction | Tx-Mode-Rp1 | Tx-NSS-Rp1 | Tx-MCS | Tx-BW-Rp1 | Rx-Mode-Rp1 | Rx-NSS-Rp1 | Rx-MCS | Rx-BW-Rp1 | RSSI dBm | Tx-Phy-Rate | Rx-Phy-Rate |
|---------|-----------|----------|-----|----------|-----------|------|--------------|-----------|-------------|------------|--------|-----------|-------------|------------|--------|-----------|------------------------|---|---|
| 52 | 5260 | Open | 2 | AUTO | 80 | 60 | UDP | DUT-TX | VHT | 2 | 4 | 80 | 2 | VHT | 4 | 40 | -28 [-31, -35, -32] | 351.0 MBit/s VHT-MCS 4 80MHz VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 60 | UDP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -26 [-31, -34, -32] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | UDP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -29 [-31, -39, -33] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | UDP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 80 | -25 [-32, -42, -36] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 520.0 MBit/s VHT-MCS 5 80MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -29 [-30, -39, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 142 | TCP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -29 [-30, -40, -36] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | UDP | DUT-TX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -30 [-31, -38, -34] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | UDP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -24 [-31, -38, -34] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-32, -40, -34] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 256 | TCP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-32, -38, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | UDP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-31, -39, -36] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | UDP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -24 [-31, -40, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-31, -40, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 512 | TCP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-31, -39, -34] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | UDP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-31, -39, -34] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | UDP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -26 [-32, -40, -35] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -31 [-32, -40, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 1024 | TCP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -31 [-32, -39, -35] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| | | | | | | | | | | | | | | | | | -28 | 780.0 MBit/s VHT-MCS 8 | 400.0 MBit/s VHT-MCS 9 |

| | | | | | | | | | | | | | | | | | | | |
|----|------|------|---|------|----|------|-----|--------|-----|---|---|----|---|-----|---|----|---------------------|---|---|
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | UDP | DUT-TX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | [-29, -40, -35] | 80MHz short GI VHT-NSS 2 | 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | UDP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -26 [-30, -41, -36] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -31 [-33, -39, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | MTU | TCP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -31 [-32, -40, -37] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | UDP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -31 [-32, -39, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | UDP | DUT-RX | VHT | 2 | 8 | 80 | 2 | VHT | 8 | 40 | -25 [-32, -40, -36] | 780.0 MBit/s VHT-MCS 8 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | TCP | DUT-TX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -31 [-32, -39, -36] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |
| 52 | 5260 | Open | 2 | AUTO | 80 | 4000 | TCP | DUT-RX | VHT | 2 | 9 | 80 | 2 | VHT | 9 | 40 | -30 [-31, -40, -35] | 866.7 MBit/s VHT-MCS 9 80MHz short GI VHT-NSS 2 | 400.0 MBit/s VHT-MCS 9 40MHz short GI VHT-NSS 2 |

Brief csv report, may be imported into third-party tools.

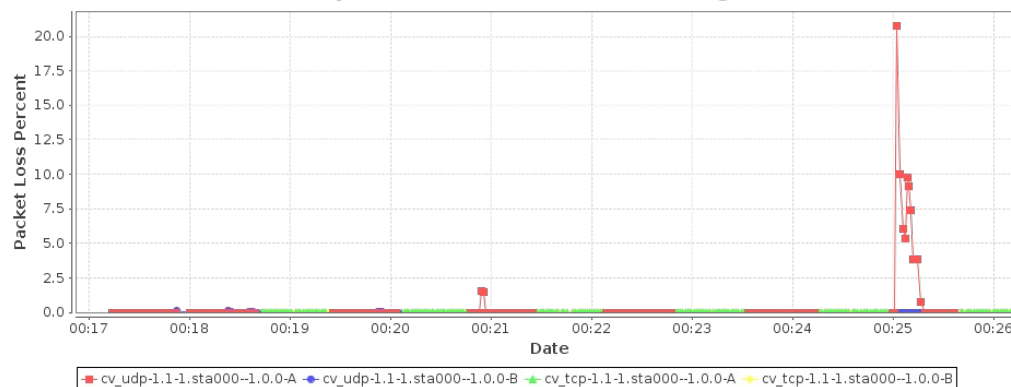
| Step Index | Position [Deg] | Attenuation [dB] | Throughput [Mbps] | Beacon RSSI [dBm] | Data RSSI [dBm] |
|------------|----------------|------------------|-------------------|-------------------|-----------------|
| 0 | NA | 0 | 3.75 | -23 | -28 |
| 1 | NA | 0 | 2.07 | -25 | -25 |
| 2 | NA | 0 | 22.78 | -23 | -28 |
| 3 | NA | 0 | 13.66 | -24 | -24 |
| 4 | NA | 0 | 48.78 | -24 | -29 |
| 5 | NA | 0 | 30.44 | -24 | -29 |
| 6 | NA | 0 | 43.38 | -24 | -29 |
| 7 | NA | 0 | 28.55 | -23 | -24 |
| 8 | NA | 0 | 105.73 | -24 | -29 |
| 9 | NA | 0 | 75.02 | -24 | -29 |
| 10 | NA | 0 | 88.78 | -24 | -29 |
| 11 | NA | 0 | 57.04 | -25 | -25 |
| 12 | NA | 0 | 220.89 | -25 | -30 |
| 13 | NA | 0 | 140.46 | -25 | -30 |
| 14 | NA | 0 | 138.14 | -25 | -30 |
| 15 | NA | 0 | 107.44 | -26 | -25 |
| 16 | NA | 0 | 321.42 | -25 | -30 |
| 17 | NA | 0 | 261.61 | -25 | -30 |
| 18 | NA | 0 | 240.21 | -24 | -29 |
| 19 | NA | 0 | 148.47 | -25 | -25 |
| 20 | NA | 0 | 328.65 | -26 | -30 |
| 21 | NA | 0 | 355.35 | -25 | -30 |
| | | | | | |

| | | | | | |
|----|----|---|--------|-----|-----|
| 22 | NA | 0 | 289.02 | -25 | -30 |
| 23 | NA | 0 | 192.20 | -25 | -25 |
| 24 | NA | 0 | 327.67 | -26 | -31 |
| 25 | NA | 0 | 352.31 | -25 | -30 |

Packet Loss Percentage graph shows the percentage of lost packets as detected by the receiving endpoint due to packet gaps. If there is full packet loss, then this will not report any loss since there will be no gap to detect. TCP protocol tests will never show drops since the TCP protocol will retransmit any lost frames.

[CSV Data for Endpoint RX Packet Loss Percentage](#)

Endpoint RX Packet Loss Percentage



| Test configuration and LANforge software version | |
|--|---------------|
| AP Tx Power: | 0 |
| Path Loss | 10 |
| Requested Speed | 85% |
| Requested Opposite Speed | 0 |
| Multi-Conn | 1 |
| Armageddon Multi-Pkt | 1000 |
| ToS | 0 |
| Station Bringup Wait: | 30 sec (30 s) |
| First Byte Wait: | 30 sec (30 s) |
| Duration: | 15 sec (15 s) |
| Settle Time: | 1 sec (1 s) |
| Send Buffer Size: | OS Default |
| Receive Buffer Size: | OS Default |
| RvR Helper Script: | |
| Channels | AUTO |
| Spatial Streams | AUTO |
| Bandwidth | No-Change |
| Attenuator-1 | 0 |
| Attenuation-1 | 0..+50..950 |
| Attenuator-2 | 0 |
| Attenuation-2 | 0..+50..950 |
| Turntable Chamber | 0 |

| | |
|---------------------------|--|
| Turntable Angles | 0..+45..359 |
| Modes | Auto |
| Packet Size | 60, 142, 256, 512, 1024, MTU, 4000 |
| Security | AUTO |
| Traffic Type | UDP, TCP |
| Direction | DUT Transmit, DUT Receive |
| Upstream Port | 1.1.eth1 Firmware: 0. 6-5 Resource: lf0350-ac28 |
| WiFi Port | 1.1.sta000 Firmware: 10.1-ct-8x-__xth-023-1d83261a Resource: lf0350-ac28 |
| Continuous Traffic | false |
| Outer Loop is Attenuation | false |
| Show Events | true |
| Auto Save Report | true |
| Pass-Fail Tput Criteria | |
| Build Date | Wed 20 Apr 2022 03:39:07 PM PDT |
| Build Version | 5.4.5 |
| Git Version | 24f9c7d438e242f3b9a22b90a55937e7af3d72f8 |

[Key Performance Indicators CSV](#)

[META Information for Dataplane Test](#)