

AP-Auto

AP Automated Test Plan

Wed Aug 10 14:07:07 IST 2022



Test Setup Information	
Device Under Test	Ap-Auto-Test netgear5g Ap-Auto-Test netgear2g
Estimated Run Time	1.833 h
Actual Run Time	1.264 h

Summary Results

Test	Result	Candela Score	Elapsed	Info
Multi-Station Throughput vs Pkt Size	Dual-Band PASS	100	1.257 h	

Multi-Station Throughput vs Pkt Size

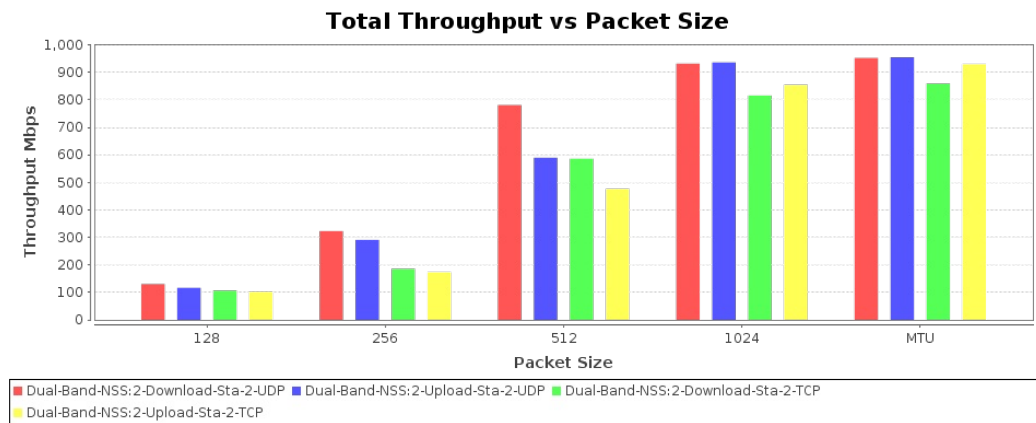
Summary

The Multi-Station Throughput vs Pkt Size test reports the Wi-Fi AP throughput at different frame sizes for different numbers of stations. This test will pick a starting point and then adjust rates up or down (hunt) until it finds the maximum rate that meets the packet loss criteria. All stations on a particular band (2.4, 5, 5b) will use the same requested rate when hunting. This normally means that a set of 5Ghz stations will hunt higher than a set of 2.4Ghz stations. A hunt iteration is considered failed if the average packet loss for a band is above the configured value (1.00) or if the offered rate is more than 10% higher than the reported throughput. A failing iteration will be retried a configurable amount of times (1) The hunt for each combination of packet size and number of stations stops after the configured number of iterations (15) or when the calculated change in requested throughput for the next step is less than 1Mbps The pass/fail criteria is based on the user-specified thresholds. If no threshold is defined, the value will be reported without pass/fail being calculated.

The Candela Score for the Multi-Station Throughput vs Pkt Size test is 50% based on the percentage of tests that passed and 50% based on total throughput vs requested throughput.

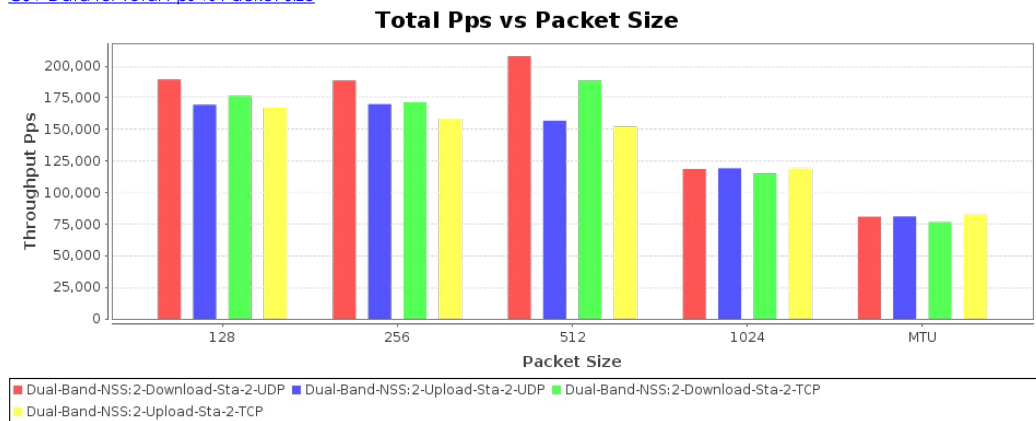
Total throughput (goodput) for each different traffic type on all bands.

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



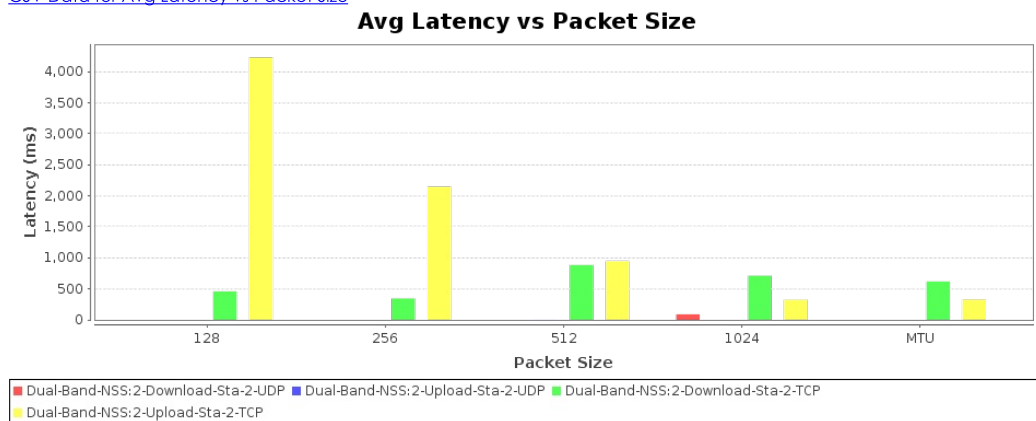
Total throughput packets-per-second for each different traffic type on all bands.

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



Average Latency for each different traffic type on all bands.

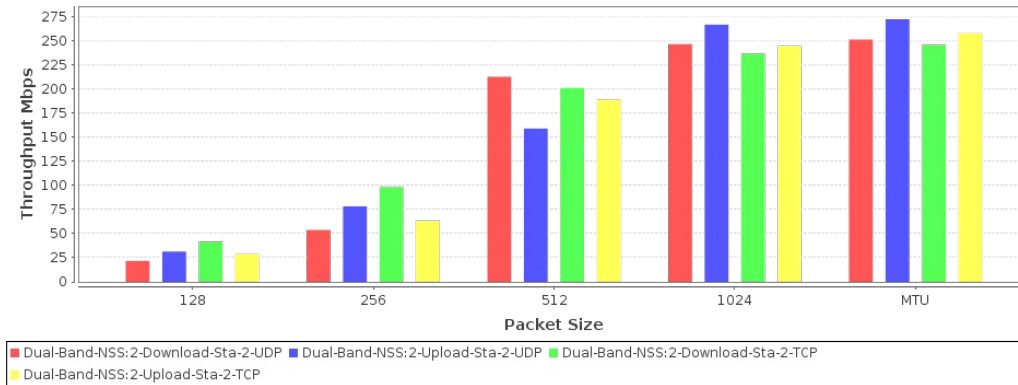
[CSV Data for Avg Latency vs Packet Size](#)



Throughput (goodput) for each different traffic type on the 2.4Ghz band.

[CSV Data for 2.4Ghz Throughput vs Packet Size](#)

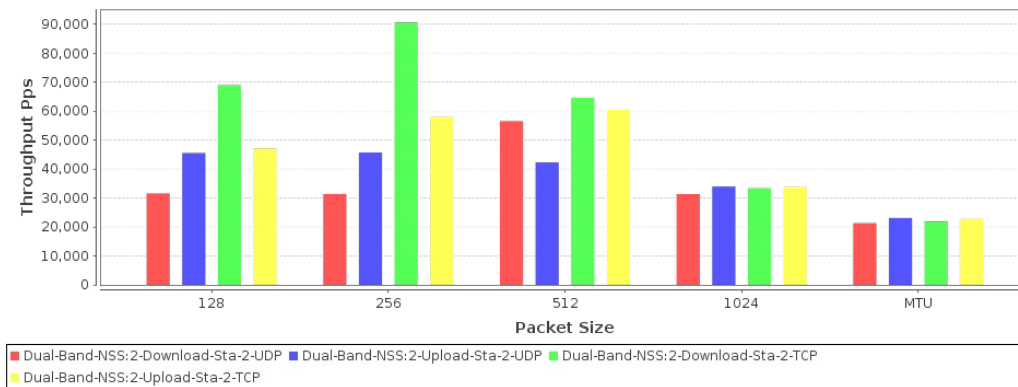
2.4Ghz Throughput vs Packet Size



Throughput packets-per-second for each different traffic type on the 2.4Ghz band.

[CSV Data for 2.4Ghz Pps vs Packet Size](#)

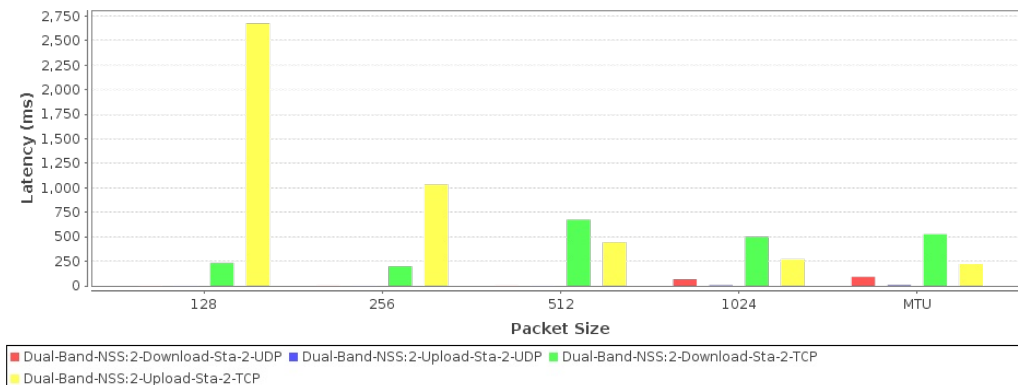
2.4Ghz Pps vs Packet Size



Average one-way Latency for each different traffic type on the 2.4Ghz band.

[CSV Data for 2.4Ghz Latency vs Packet Size](#)

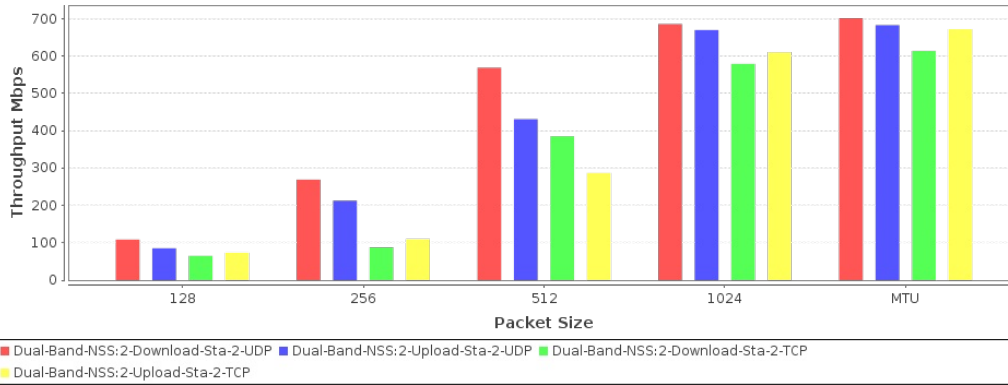
2.4Ghz Latency vs Packet Size



Throughput (goodput) for each different traffic type on the 5Ghz band.

[CSV Data for 5Ghz Throughput vs Packet Size](#)

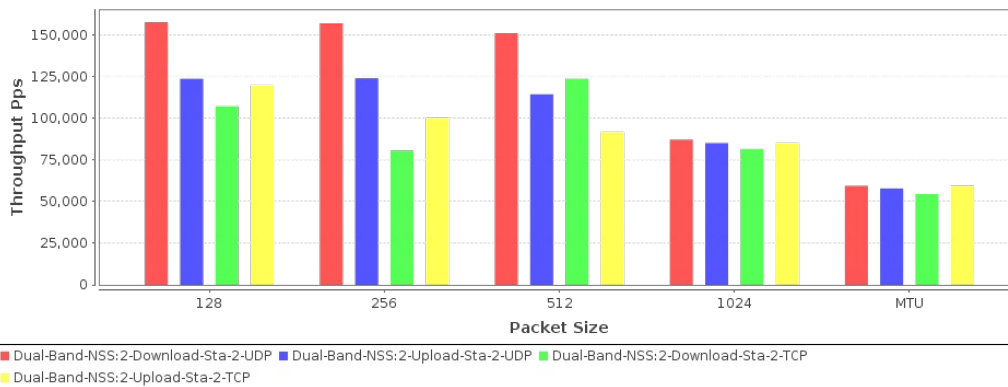
5Ghz Throughput vs Packet Size



Throughput packets-per-second for each different traffic type on the 5Ghz band.

[CSV Data for 5Ghz Pps vs Packet Size](#)

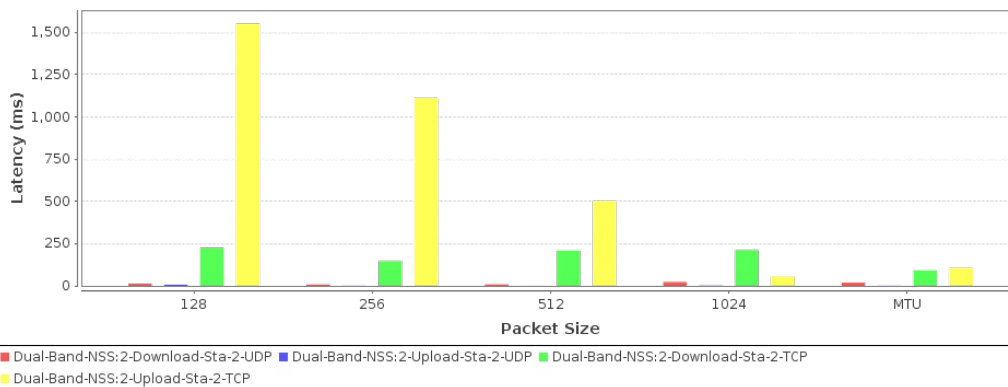
5Ghz Pps vs Packet Size



Average one-way Latency for each different traffic type on the 5Ghz band.

[CSV Data for 5Ghz Latency vs Packet Size](#)

5Ghz Latency vs Packet Size



Multi-Station Throughput vs Pkt Size Results

Type	Result	Notes
Configuration NOTE	INFO	Configured to skip 2.4Ghz band test.
Configuration NOTE	INFO	Configured to skip 5Ghz band test.
Dual-Band NSS: 2 Download Sta Qty: 2 128B	Info	130.37 Mbps PER: 0.45%
Dual-Band NSS: 2 Download Sta Qty: 2 256B	Info	322.96 Mbps PER: 0.76%
Dual-Band NSS: 2 Download Sta Qty: 2 512B	Info	781.52 Mbps PER: 0.18%
Dual-Band NSS: 2 Download Sta Qty: 2 1024B	Info	932.29 Mbps PER: 0.46%

Dual-Band NSS: 2 Download Sta Qty: 2 MTU	Info	952.68 Mbps PER: 0.59%
Dual-Band NSS: 2 Upload Sta Qty: 2 128B	Info	116.61 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 256B	Info	291.04 Mbps PER: 0.00%
Dual-Band NSS: 2 Upload Sta Qty: 2 512B	Info	589.93 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 1024B	Info	936.46 Mbps PER: 0.39%
Dual-Band NSS: 2 Upload Sta Qty: 2 MTU	Info	955.04 Mbps PER: 0.79%
Dual-Band NSS: 2 Download Sta Qty: 2 128B	Info	107.11 Mbps PER: 0%
Dual-Band NSS: 2 Download Sta Qty: 2 256B	Info	186.10 Mbps PER: 0%
Dual-Band NSS: 2 Download Sta Qty: 2 512B	Info	586.38 Mbps PER: 0%
Dual-Band NSS: 2 Download Sta Qty: 2 1024B	Info	816.19 Mbps PER: 0%
Dual-Band NSS: 2 Download Sta Qty: 2 MTU	Info	859.55 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 128B	Info	102.24 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 256B	Info	173.23 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 512B	Info	476.51 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 1024B	Info	855.49 Mbps PER: 0%
Dual-Band NSS: 2 Upload Sta Qty: 2 MTU	Info	930.07 Mbps PER: 0%
Configuration NOTE	INFO	Configured to skip 5Ghz-B band test.
Configuration NOTE	INFO	Configured to skip Tri band test.

Multi-Station Throughput vs Pkt Size Individual Steps

Notes:NOTE: In the table below, the 3 numbers in parentheses are for 2.4Ghz, 5Ghz, and 5Ghz-B bands.

Type	Result	Notes
Dual-Band NSS: 2 Download 128B Sta Qty: 2	1(-/-/_)	Intended: 100/500/0 Offered: 100/418/0 Mbps Tput: 28/105/0 PER: 71.87/74.82/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	2(-/-/_)	Intended: 100/500/0 Offered: 100/347/0 Mbps Tput: 34/100/0 PER: 65.58/70.98/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	3(-/-/_)	Intended: 50/250/0 Offered: 50/249/0 Mbps Tput: 24/108/0 PER: 52.78/56.61/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	4(-/-/_)	Intended: 50/250/0 Offered: 50/249/0 Mbps Tput: 24/108/0 PER: 51.82/56.52/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	5(-/-/_)	Intended: 25/125/0 Offered: 25/125/0 Mbps Tput: 22/109/0 PER: 12.06/12.18/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	6(-/-/_)	Intended: 25/125/0 Offered: 25/125/0 Mbps Tput: 22/109/0 PER: 12.18/12.19/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	7(+/-/_)	Intended: 12/62/0 Offered: 12/62/0 Mbps Tput: 12/62/0 PER: 0/0.00/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	8(+/-/_)	Intended: 19/94/0 Offered: 19/94/0 Mbps Tput: 19/94/0 PER: 0.01/0.04/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	9(+/-/_)	Intended: 22/109/0 Offered: 22/109/0 Mbps Tput: 22/109/0 PER: 0.52/0.38/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	10(-/-/_)	Intended: 23/117/0 Offered: 23/117/0 Mbps Tput: 22/109/0 PER: 6.61/6.30/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	11(-/-/_)	Intended: 23/117/0 Offered: 23/117/0 Mbps Tput: 22/109/0 PER: 6.65/6.35/_

Dual-Band NSS: 2 Download 128B Sta Qty: 2	12(-/-/_)	Intended: 23/113/0 Offered: 23/113/0 Mbps Tput: 22/109/0 PER: 3.46/3.09/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	13(-/-/_)	Intended: 23/113/0 Offered: 23/113/0 Mbps Tput: 22/109/0 PER: 3.34/3.01/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	14(-/-/_)	Intended: 22/111/0 Offered: 22/111/0 Mbps Tput: 22/109/0 PER: 1.69/1.42/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	15(-/-/_)	Intended: 22/111/0 Offered: 22/111/0 Mbps Tput: 22/109/0 PER: 1.64/1.38/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	1(+/+/_)	Intended: 22/109/0 Offered: 22/108/0 Mbps Tput: 22/108/0 PER: 0/0/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	2(+/+/_)	Intended: 44/217/0 Offered: 43/217/0 Mbps Tput: 44/217/0 PER: 0/0/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	3(-/-/_)	Intended: 87/434/0 Offered: 87/434/0 Mbps Tput: 56/269/0 PER: 36.01/37.93/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	4(-/-/_)	Intended: 87/434/0 Offered: 87/433/0 Mbps Tput: 56/269/0 PER: 35.27/37.91/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	5(-/-/_)	Intended: 65/326/0 Offered: 65/326/0 Mbps Tput: 56/269/0 PER: 14.65/17.14/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	6(-/-/_)	Intended: 65/326/0 Offered: 65/326/0 Mbps Tput: 54/269/0 PER: 16.44/17.11/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	7(+/+/_)	Intended: 54/272/0 Offered: 54/271/0 Mbps Tput: 54/269/0 PER: 0.82/0.70/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	8(-/-/_)	Intended: 60/299/0 Offered: 60/298/0 Mbps Tput: 55/269/0 PER: 8.69/9.62/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	9(-/-/_)	Intended: 60/299/0 Offered: 60/298/0 Mbps Tput: 54/269/0 PER: 9.17/9.68/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	10(-/-/_)	Intended: 57/285/0 Offered: 57/285/0 Mbps Tput: 54/269/0 PER: 5.23/5.28/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	11(-/-/_)	Intended: 57/285/0 Offered: 57/285/0 Mbps Tput: 54/269/0 PER: 5.39/5.35/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	12(-/-/_)	Intended: 56/278/0 Offered: 56/278/0 Mbps Tput: 54/269/0 PER: 3.07/3.01/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	13(-/-/_)	Intended: 56/278/0 Offered: 56/278/0 Mbps Tput: 54/269/0 PER: 3.14/3.04/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	14(-/-/_)	Intended: 55/275/0 Offered: 55/274/0 Mbps Tput: 54/269/0 PER: 2.09/1.83/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	15(-/-/_)	Intended: 55/275/0 Offered: 55/274/0 Mbps Tput: 54/269/0 PER: 2.05/1.93/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	1(+/+/_)	Intended: 54/269/0 Offered: 54/269/0 Mbps Tput: 54/269/0 PER: 0/0/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	2(+/+/_)	Intended: 108/538/0 Offered: 108/537/0 Mbps Tput: 107/537/0 PER: 0.01/0.01/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	3(-/-/_)	Intended: 215/1,077/0 Offered: 215/661/0 Mbps Tput: 175/545/0 PER: 18.90/17.42/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	4(-/-/_)	Intended: 215/1,077/0 Offered: 215/663/0 Mbps Tput: 174/543/0 PER: 19.16/17.93/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	5(-/-/_)	Intended: 161/807/0 Offered: 161/718/0 Mbps Tput: 129/569/0 PER: 19.93/20.44/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	6(+/-/_)	Intended: 161/807/0 Offered: 161/719/0 Mbps Tput: 161/574/0 PER: 0.37/19.79/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	7(+/-/_)	Intended: 188/673/0 Offered: 188/671/0 Mbps Tput: 187/573/0 PER: 0.38/14.64/_

Dual-Band NSS: 2 Download 512B Sta Qty: 2	8(+/-/_)	Intended: 202/673/0 Offered: 201/671/0 Mbps Tput: 201/575/0 PER: 0.37/14.32/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	9(+/-/_)	Intended: 208/606/0 Offered: 208/604/0 Mbps Tput: 208/566/0 PER: 0.10/6.29/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	10(+/-/_)	Intended: 212/606/0 Offered: 212/604/0 Mbps Tput: 211/564/0 PER: 0.17/6.59/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	11(+/-/_)	Intended: 214/572/0 Offered: 213/571/0 Mbps Tput: 213/569/0 PER: 0.09/0.28/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	12(+/-/_)	Intended: 214/589/0 Offered: 214/588/0 Mbps Tput: 213/573/0 PER: 0.17/2.42/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	13(+/-/_)	Intended: 215/589/0 Offered: 215/587/0 Mbps Tput: 214/572/0 PER: 0.17/2.53/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	14(+/-/_)	Intended: 215/580/0 Offered: 215/579/0 Mbps Tput: 214/571/0 PER: 0.29/1.29/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	15(+/-/_)	Intended: 215/580/0 Offered: 215/579/0 Mbps Tput: 215/572/0 PER: 0.13/1.17/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	1(+/-/_)	Intended: 213/569/0 Offered: 212/567/0 Mbps Tput: 213/568/0 PER: 0/0/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	2(-/-/_)	Intended: 426/1,137/0 Offered: 425/516/0 Mbps Tput: 246/510/0 PER: 41.51/0.85/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	3(-/-/_)	Intended: 426/1,137/0 Offered: 425/515/0 Mbps Tput: 247/510/0 PER: 41.49/0.85/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	4(-/-/_)	Intended: 319/853/0 Offered: 319/624/0 Mbps Tput: 246/617/0 PER: 22.41/0.97/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	5(-/-/_)	Intended: 319/853/0 Offered: 318/622/0 Mbps Tput: 246/616/0 PER: 22.25/0.70/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	6(-/-/_)	Intended: 266/711/0 Offered: 265/676/0 Mbps Tput: 244/670/0 PER: 7.44/0.74/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	7(-/-/_)	Intended: 266/782/0 Offered: 265/675/0 Mbps Tput: 245/670/0 PER: 7.11/0.59/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	8(+/-/_)	Intended: 239/782/0 Offered: 239/701/0 Mbps Tput: 239/683/0 PER: 0/2.37/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	9(-/-/_)	Intended: 253/746/0 Offered: 252/688/0 Mbps Tput: 245/683/0 PER: 2.60/0.57/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	10(-/-/_)	Intended: 253/764/0 Offered: 252/689/0 Mbps Tput: 245/683/0 PER: 2.05/0.59/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	11(+/-/_)	Intended: 246/764/0 Offered: 245/696/0 Mbps Tput: 243/686/0 PER: 0.52/1.01/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	12(+/-/_)	Intended: 249/755/0 Offered: 249/693/0 Mbps Tput: 247/686/0 PER: 0.24/0.68/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	1(+/-/_)	Intended: 247/686/0 Offered: 246/684/0 Mbps Tput: 247/684/0 PER: 0/0/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	2(-/-/_)	Intended: 493/1,371/0 Offered: 489/494/0 Mbps Tput: 255/478/0 PER: 47.16/2.98/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	3(-/-/_)	Intended: 493/1,371/0 Offered: 486/485/0 Mbps Tput: 252/478/0 PER: 47.64/1.38/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	4(-/-/_)	Intended: 370/1,029/0 Offered: 369/593/0 Mbps Tput: 251/586/0 PER: 31.20/1.11/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	5(-/-/_)	Intended: 370/1,029/0 Offered: 370/595/0 Mbps Tput: 248/586/0 PER: 32.00/1.10/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	6(-/-/_)	Intended: 308/857/0 Offered: 308/656/0 Mbps Tput: 250/649/0 PER: 17.82/1.01/_

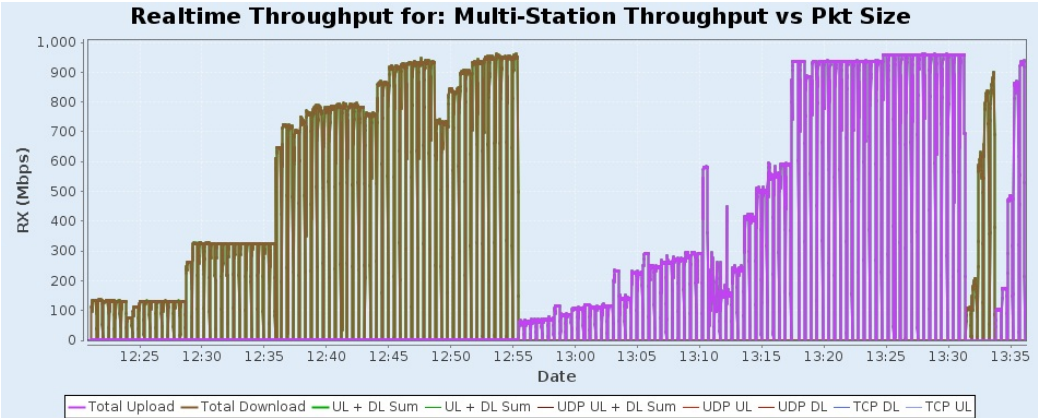
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Dual-Band NSS: 2 Download MTU Sta Qty: 2	8(-/-/_)	Intended: 277/771/0 Offered: 277/686/0 Mbps Tput: 251/678/0 PER: 8.39/0.96/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	9(-/-/_)	Intended: 277/771/0 Offered: 277/686/0 Mbps Tput: 252/679/0 PER: 8.32/0.91/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	10(-/+/_)	Intended: 262/729/0 Offered: 262/701/0 Mbps Tput: 252/694/0 PER: 2.76/0.90/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	11(-/-/_)	Intended: 262/750/0 Offered: 261/716/0 Mbps Tput: 252/694/0 PER: 2.75/3.05/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	12(+/+/_)	Intended: 254/750/0 Offered: 254/709/0 Mbps Tput: 251/701/0 PER: 0.25/0.93/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	13(-/-/_)	Intended: 258/761/0 Offered: 258/709/0 Mbps Tput: 251/698/0 PER: 1.82/1.53/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	14(-/+/_)	Intended: 258/761/0 Offered: 258/705/0 Mbps Tput: 250/697/0 PER: 2.02/0.96/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	15(+/+/_)	Intended: 256/766/0 Offered: 256/708/0 Mbps Tput: 252/700/0 PER: 0.83/0.86/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	1(-/-/_)	Intended: 251/701/0 Offered: 54/85/0 Mbps Tput: 25/35/0 PER: 53.58/58.61/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	2(-/-/_)	Intended: 251/701/0 Offered: 54/85/0 Mbps Tput: 25/35/0 PER: 54.53/58.62/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	3(-/-/_)	Intended: 126/351/0 Offered: 54/85/0 Mbps Tput: 26/39/0 PER: 52.09/54.60/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	4(-/-/_)	Intended: 126/351/0 Offered: 53/85/0 Mbps Tput: 25/41/0 PER: 51.97/51.15/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	5(-/-/_)	Intended: 63/175/0 Offered: 53/85/0 Mbps Tput: 25/43/0 PER: 51.66/49.35/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	6(-/-/_)	Intended: 63/175/0 Offered: 52/85/0 Mbps Tput: 26/45/0 PER: 51.09/47.21/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	7(+/+/_)	Intended: 31/88/0 Offered: 31/85/0 Mbps Tput: 31/85/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	8(-/-/_)	Intended: 47/131/0 Offered: 47/85/0 Mbps Tput: 27/57/0 PER: 41.69/32.50/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	9(-/-/_)	Intended: 47/131/0 Offered: 47/85/0 Mbps Tput: 28/58/0 PER: 41.42/32.01/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	10(-/-/_)	Intended: 39/110/0 Offered: 39/85/0 Mbps Tput: 31/74/0 PER: 20.64/12.63/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	11(-/-/_)	Intended: 39/110/0 Offered: 39/85/0 Mbps Tput: 31/75/0 PER: 20.13/12.38/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	12(+/+/_)	Intended: 35/99/0 Offered: 35/85/0 Mbps Tput: 35/85/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	13(-/-/_)	Intended: 37/99/0 Offered: 37/85/0 Mbps Tput: 32/78/0 PER: 13.02/7.83/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	14(-/-/_)	Intended: 37/93/0 Offered: 37/85/0 Mbps Tput: 32/79/0 PER: 13.04/7.49/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	15(-/-/_)	Intended: 36/93/0 Offered: 36/85/0 Mbps Tput: 34/82/0 PER: 7.59/4.28/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	1(+/+/_)	Intended: 31/85/0 Offered: 31/85/0 Mbps Tput: 31/85/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	2(+/+/_)	Intended: 63/171/0 Offered: 63/170/0 Mbps Tput: 63/170/0 PER: 0.00/0/_

Dual-Band NSS: 2 Upload 256B Sta Qty: 2	3(-/-/_)	Intended: 125/341/0 Offered: 125/220/0 Mbps Tput: 61/78/0 PER: 51.57/64.50/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	4(-/-/_)	Intended: 125/341/0 Offered: 125/220/0 Mbps Tput: 61/79/0 PER: 51.56/63.86/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	5(-/-/_)	Intended: 94/256/0 Offered: 94/220/0 Mbps Tput: 61/165/0 PER: 35.16/25.05/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	6(-/-/_)	Intended: 94/256/0 Offered: 94/220/0 Mbps Tput: 61/164/0 PER: 35.13/25.49/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	7(+/+/_)	Intended: 78/213/0 Offered: 78/213/0 Mbps Tput: 78/213/0 PER: 0.01/0/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	8(-/-/_)	Intended: 86/234/0 Offered: 86/220/0 Mbps Tput: 63/182/0 PER: 26.84/17.13/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	9(-/-/_)	Intended: 86/234/0 Offered: 86/220/0 Mbps Tput: 62/182/0 PER: 27.55/17.32/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	10(-/-/_)	Intended: 82/224/0 Offered: 82/220/0 Mbps Tput: 66/193/0 PER: 19.64/12.06/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	11(-/-/_)	Intended: 82/224/0 Offered: 82/220/0 Mbps Tput: 66/194/0 PER: 18.98/11.68/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	12(-/-/_)	Intended: 80/218/0 Offered: 80/218/0 Mbps Tput: 69/200/0 PER: 14.21/8.29/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	13(-/-/_)	Intended: 80/218/0 Offered: 80/218/0 Mbps Tput: 69/201/0 PER: 13.56/7.86/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	14(-/-/_)	Intended: 79/216/0 Offered: 79/215/0 Mbps Tput: 77/212/0 PER: 3.02/1.88/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	15(-/-/_)	Intended: 79/216/0 Offered: 79/215/0 Mbps Tput: 78/213/0 PER: 1.95/1.26/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	1(+/+/_)	Intended: 78/213/0 Offered: 78/212/0 Mbps Tput: 78/213/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	2(+/+/_)	Intended: 157/425/0 Offered: 156/425/0 Mbps Tput: 156/425/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	3(-/-/_)	Intended: 313/851/0 Offered: 269/515/0 Mbps Tput: 102/62/0 PER: 61.79/88.31/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	4(-/-/_)	Intended: 313/851/0 Offered: 268/522/0 Mbps Tput: 105/37/0 PER: 60.88/93.11/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	5(-/-/_)	Intended: 235/638/0 Offered: 235/545/0 Mbps Tput: 125/33/0 PER: 45.56/94.05/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	6(-/-/_)	Intended: 235/638/0 Offered: 235/536/0 Mbps Tput: 120/35/0 PER: 48.94/93.33/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	7(-/-/_)	Intended: 196/532/0 Offered: 196/530/0 Mbps Tput: 113/122/0 PER: 41.30/77.31/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	8(-/-/_)	Intended: 196/532/0 Offered: 195/531/0 Mbps Tput: 111/124/0 PER: 42.81/76.36/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	9(-/-/_)	Intended: 176/479/0 Offered: 176/478/0 Mbps Tput: 102/308/0 PER: 42.27/35.32/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	10(-/-/_)	Intended: 176/479/0 Offered: 176/478/0 Mbps Tput: 99/311/0 PER: 43.62/34.91/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	11(-/-/_)	Intended: 166/452/0 Offered: 166/451/0 Mbps Tput: 125/377/0 PER: 25.20/16.35/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	12(-/-/_)	Intended: 166/452/0 Offered: 166/451/0 Mbps Tput: 123/377/0 PER: 26.01/16.47/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	13(-/-/_)	Intended: 162/439/0 Offered: 162/438/0 Mbps Tput:

Sta Qty: 2		145/413/0 PER: 9.90/5.67/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	14(-/-/_)	Intended: 162/439/0 Offered: 162/438/0 Mbps Tput: 145/409/0 PER: 10.24/6.49/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	15(+/-/_)	Intended: 159/432/0 Offered: 159/431/0 Mbps Tput: 159/431/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	1(+/-/_)	Intended: 159/431/0 Offered: 159/430/0 Mbps Tput: 159/430/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	2(-/-/_)	Intended: 318/862/0 Offered: 312/689/0 Mbps Tput: 293/643/0 PER: 5.96/6.71/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	3(-/-/_)	Intended: 318/862/0 Offered: 310/690/0 Mbps Tput: 293/643/0 PER: 5.35/6.62/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	4(+/-/_)	Intended: 239/646/0 Offered: 239/645/0 Mbps Tput: 238/645/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	5(-/-/_)	Intended: 278/754/0 Offered: 278/689/0 Mbps Tput: 273/664/0 PER: 1.78/3.70/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	6(-/-/_)	Intended: 278/754/0 Offered: 278/689/0 Mbps Tput: 273/661/0 PER: 1.79/3.74/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	7(+/-/_)	Intended: 258/700/0 Offered: 258/689/0 Mbps Tput: 256/679/0 PER: 0.71/1.27/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	8(-/-/_)	Intended: 268/700/0 Offered: 268/689/0 Mbps Tput: 264/671/0 PER: 1.37/2.48/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	9(+/-/_)	Intended: 268/673/0 Offered: 268/672/0 Mbps Tput: 267/670/0 PER: 0.31/0.48/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	10(-/-/_)	Intended: 273/687/0 Offered: 273/685/0 Mbps Tput: 269/666/0 PER: 1.50/2.63/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	11(-/-/_)	Intended: 273/687/0 Offered: 273/685/0 Mbps Tput: 267/669/0 PER: 1.87/2.51/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	12(+/-/_)	Intended: 271/680/0 Offered: 271/679/0 Mbps Tput: 268/669/0 PER: 0.92/1.58/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	13(+/-/_)	Intended: 272/680/0 Offered: 272/678/0 Mbps Tput: 269/668/0 PER: 0.99/1.74/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	14(+/-/_)	Intended: 273/677/0 Offered: 272/676/0 Mbps Tput: 270/666/0 PER: 0.84/1.40/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	15(+/-/_)	Intended: 273/677/0 Offered: 272/675/0 Mbps Tput: 271/665/0 PER: 0.85/1.44/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	1(+/-/_)	Intended: 267/670/0 Offered: 267/668/0 Mbps Tput: 267/668/0 PER: 0/0/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	2(-/-/_)	Intended: 534/1,339/0 Offered: 320/731/0 Mbps Tput: 287/669/0 PER: 10.13/8.31/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	3(-/-/_)	Intended: 534/1,339/0 Offered: 321/731/0 Mbps Tput: 286/669/0 PER: 10.22/8.31/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	4(-/-/_)	Intended: 400/1,004/0 Offered: 321/732/0 Mbps Tput: 286/669/0 PER: 10.30/8.30/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	5(-/-/_)	Intended: 400/1,004/0 Offered: 320/731/0 Mbps Tput: 287/670/0 PER: 10.16/8.29/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	6(-/-/_)	Intended: 334/837/0 Offered: 319/731/0 Mbps Tput: 286/669/0 PER: 9.93/8.32/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	7(-/-/_)	Intended: 334/837/0 Offered: 320/731/0 Mbps Tput: 286/669/0 PER: 10.05/8.35/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	8(-/-/_)	Intended: 300/753/0 Offered: 300/731/0 Mbps Tput: 278/677/0 PER: 7.19/7.15/_

Dual-Band NSS: 2 Upload MTU Sta Qty: 2	9(-/-/_)	Intended: 300/753/0 Offered: 300/731/0 Mbps Tput: 279/678/0 PER: 7.10/7.19/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	10(-/-/_)	Intended: 284/711/0 Offered: 283/710/0 Mbps Tput: 273/682/0 PER: 3.60/3.77/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	11(-/-/_)	Intended: 284/711/0 Offered: 283/710/0 Mbps Tput: 273/683/0 PER: 3.58/3.79/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	12(+/-/_)	Intended: 275/690/0 Offered: 275/689/0 Mbps Tput: 272/683/0 PER: 0.74/0.84/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	13(-/-/_)	Intended: 279/701/0 Offered: 279/700/0 Mbps Tput: 273/682/0 PER: 2.06/2.38/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	14(-/-/_)	Intended: 279/701/0 Offered: 279/699/0 Mbps Tput: 273/682/0 PER: 2.05/2.38/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	15(-/-/_)	Intended: 277/696/0 Offered: 277/694/0 Mbps Tput: 273/682/0 PER: 1.38/1.63/_
Dual-Band NSS: 2 Download 128B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 42/65/0 Mbps Tput: 42/65/0 PER: 0/0/_
Dual-Band NSS: 2 Download 256B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 98/87/0 Mbps Tput: 98/88/0 PER: 0/0/_
Dual-Band NSS: 2 Download 512B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 201/386/0 Mbps Tput: 201/385/0 PER: 0/0/_
Dual-Band NSS: 2 Download 1024B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 236/579/0 Mbps Tput: 237/579/0 PER: 0/0/_
Dual-Band NSS: 2 Download MTU Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 246/615/0 Mbps Tput: 246/614/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 128B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 29/73/0 Mbps Tput: 29/73/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 256B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 64/110/0 Mbps Tput: 63/110/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 512B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 189/287/0 Mbps Tput: 190/287/0 PER: 0/0/_
Dual-Band NSS: 2 Upload 1024B Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 248/612/0 Mbps Tput: 245/611/0 PER: 0/0/_
Dual-Band NSS: 2 Upload MTU Sta Qty: 2	1(+/-/_)	Intended: 10,000/10,000/0 Offered: 259/672/0 Mbps Tput: 258/672/0 PER: 0/0/_

Realtime Throughput for: Multi-Station Throughput vs Pkt Size



[Key Performance Indicators CSV](#)

Test configuration and LANforge software version	
Auto-Helper	true
Skip 2.4Ghz Tests	true
Skip 5Ghz Tests	true
Skip 5Gzh-B Tests	true
Skip Dual-Band Tests	false
Skip Tri-Band Tests	true
Use BSSID	true
Set Radio TxPower to Default	false
Loop Iterations:	1
2.4Ghz Station Count:	64
5Ghz Station Count:	64
Dual-Band Station Count:	64
5Ghz-B Station Count:	64
Tri-Band Station Count:	64
Duration-20	20
Hunt Retries:	1
Maximum Hunt Iterations:	15
Multi-Conn	1
ToS	0
Upstream Port	1.1.1 eth1 Firmware: 0. 0-0 Resource: LF-Lecturehall
Stability Duration:	1 h
Concurrent Ports to Reset:	1
Minimum Time between Resets:	10000
Maximum Time between Resets:	60000
Long-Term Station Count:	2
VOIP Call Count:	20
Percent:	1000000
Open:	25
PSK:	60
Enterprise:	120
Stability stall threshold UDP Upload:	100000
Stability stall threshold UDP Download:	100000
Stability stall threshold TCP Upload:	100000
Stability stall threshold TCP Download:	100000
Stability stall threshold Video:	100000
Stability stall threshold VOIP:	20000
Stability Helper Script:	
Stability Multicast Min Download Rate:	100000

Stability Multicast Max Download Rate:	0
Stability UDP Min Download Rate:	500000
Stability UDP Max Download Rate:	0
Stability UDP Min Upload Rate:	500000
Stability UDP Max Upload Rate:	0
Stability TCP Min Download Rate:	500000
Stability TCP Max Download Rate:	0
Stability TCP Min Upload Rate:	500000
Stability TCP Max Upload Rate:	0
2.4Ghz Legacy%	0
2.4Ghz N%	0
2.4Ghz AC%	0
2.4Ghz AX/AUTO%	100
5Ghz Legacy%	0
5Ghz N%	0
5Ghz AC%	0
5Ghz AX/AUTO%	100
Long-Term Duration:	1 h
Long-Term Graph Interval:	30
Long-Term Download Rate:	85%
Video Emulation Rate:	700000
Video Buffer Size:	1000000
Long-Term Upload Rate:	85%
Use Packet Sizes	false
Reset Radios	false
Use Packet Sizes	false
Always expect 5g	false
Spatial Streams	2
Bandwidth	AUTO
Modes	Auto
WiFi Radio 0	1.1.2 wiphy0 Firmware: 10.1-ct-8x-__xIH-023-1d83261a Resource: LF-Lecturehall
WiFi Radio 0	1.1.3 wiphy2 Firmware: 10.4b-ct-9984-xIH-13-b1b524c8e5 Resource: LF-Lecturehall
Pass-Fail Tput Criteria	
Show Events	true
Build Date	Thu 07 Jul 2022 08:57:05 AM PDT
Build Version	5.4.5
Git Version	69186323529a921fdbcb254a9168f9e613a5a4350

[CSV Data](#)

[META Information for AP-Auto](#)

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