

Objective

The objective of the QoS (Quality of Service) traffic throughput test is to measure the maximum achievable throughput of a network under specific QoS settings and conditions. By conducting this test, we aim to assess the capacity of network to handle high volumes of traffic while maintaining acceptable performance levels, ensuring that the network meets the required QoS standards and can adequately support the expected user demands.

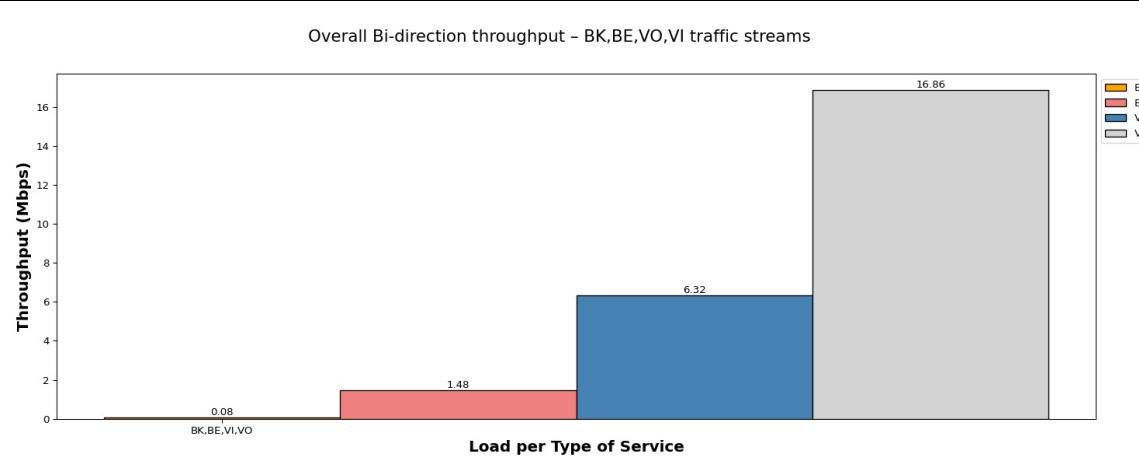
Test Configuration	Number of Stations	45
	AP Model	Test-AP
	SSID	"RDT_wpa,RDT_wpa2"
	Traffic Duration in hours	15.0
	Security	None
	Protocol	TCP
	Traffic Direction	Bi-direction
	TOS	[‘VO’, ‘VI’, ‘BE’, ‘BK’]
	Per TOS Load in Mbps	Upload:1000.0 Mbps, Download:1000.0 Mbps

Overall Bi-direction Throughput for all TOS i.e BK | BE | Video (VI) | Voice (VO)

No of Stations	Throughput for Load 1000.0 Mbps-upload	Throughput for Load 1000.0 Mbps-download
45	BK : 0.06, BE : 1.15, VI: 3.7, VO: 10.5	BK : 0.02, BE : 0.33, VI: 2.62, VO: 6.36

Overall Bi-direction throughput for 45 clients with different TOS.

The below graph represents overall Bi-direction throughput for all connected stations running BK, BE, VO, VI traffic with different intended loads Upload:1000.0 Mbps, Download:1000.0 Mbps per tos



Individual Bi-direction throughput with intended load Upload:1000.0 Mbps, Download:1000.0 Mbps/station for traffic BK(WiFi).

The below graph represents individual throughput for 45 clients running BK (WiFi) traffic. X- axis shows “Throughput in Mbps” and Y-axis shows “number of clients”.

Individual Bi-direction throughput for BK(WIFI) traffic

Download
Upload



Client Name	MAC	SSID	Type of traffic	Traffic Direction	Traffic Protocol	Offered upload rate(Mbps)	Offered download rate(Mbps)	Observed upload rate(Mbps)	Observed download rate(Mbps)	Observed Upload Drop (%)	Observed Download Drop (%)
1.241 Win DESKTOP-QNG7LT	5c:3a:45:49:22:c7	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	97.60	98.25
1.252 Win DESKTOP-HFOQ16U	64:6e:e0:f3:7d:2f	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	99.73	99.73
1.304 Lin test44	b0:35:9f:de:7f:c	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	76.41	99.70
1.305 Lin test26	64:6e:e0:92:29:e6	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.02	5.91	6.90
1.341 Lin test	:85:00:45:dc:cd	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	66.13	96.06
1.345 Lin test40	e4:b3:18:7d:76:db	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	88.35	99.73
1.410 Mac apples-Air1.lan	30:35:ad:c5:e1:be		Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.501 Win DESKTOP-3OSF0BQ	c:54:15:cb:95:5d	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	100.00	100.00
1.502 Win DESKTOP-DDPI3HE	e4:a4:71:93:70:e7	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	99.93	99.93
1.503 Win DESKTOP-ANHCCC5	:93:37:bf:3c:9a	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	92.76	92.74
1.505 Lin test42	f0:d5:bf:ae:b9:a	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	70.80	96.82
1.507 Win DESKTOP-7I77Q2N	4:ab:c5:c4:0b:0d	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	99.98	99.98
1.508 Lin test34	f0:d5:bf:4a:2e:14	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	78.97	99.17
1.509 Lin test43	e4:a4:71:23:99:aa	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	75.34	97.23
1.51 android vivo2214	6c:d1:99:34:ea:db	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	5.04	82.73
1.29 android Vivo2109	02:00:00:00:00:00	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	84.99
1.50 android vivo_pro	2:00:00:00:00:	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	80.85
1.17 android vivo2111	00:08:f4:26:00:68	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.16 android Samsung1g	0:f1:89:84:48:b5	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	63.96
1.37 android Medium_Mobile_2	2:ed:91:0f:22:1f	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	31.43	98.99
1.40 android Realme5A	82:b9:57:bd:31:6a	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	26.50	99.93
1.23 android HONOR9X-8	ac:bd:70:e2:e3:17	RDT_open	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	19.93	99.40
1.53 android vivo2031	02:00:00:00:00:00	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	29.34	99.69
1.22 android OppoA5	ea:6b:45:ee:31:c	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	28.24	99.93
1.11 android oppo18	96:55:b8:f3:cb:04	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	8.47	95.49
1.24 android 10.orG	d8:6c:02:b3:fa:98	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.20 android lenova	84:b8:b8:6c:79:05	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	7.64	99.59
1.49 android vivo1938	be:fa:ba:e3:13:40	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	18.89	99.91
1.32 android FarClient2	ce:54:77:de:00:b6	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	86.57

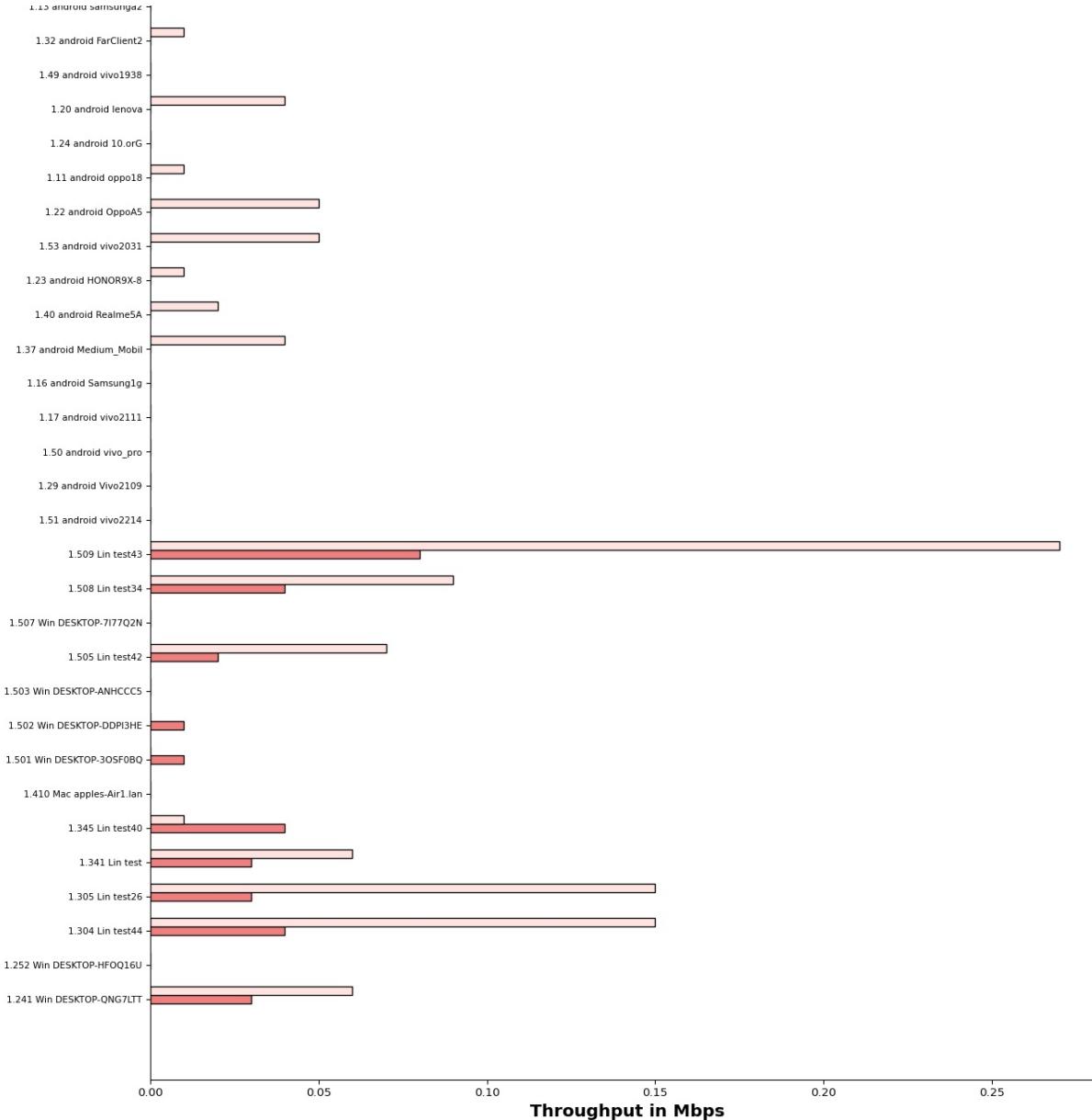
1.13 android samsunga2	2:cc:f7:41:33:1f	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.46 android Galaxy-tabA8-2	24:c6:13:99:92:3d	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	49.80
1.10 android samsunga0	a4:c6:9a:f2:2a:db	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	2.68	18.17
1.44 android SamsungGalaxy	72:e3:b7:56:3a:8	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	38.72	62.64
1.27 android SamsungA30s	:3c:38:1a:2e:1a	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	29.66	99.93
1.26 android samsunga21	3a:f8:b3:30:a3:8a	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.18
1.39 android samsungm21	06:d3:9d:b9:24:18	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	59.25
1.43 android Samsungm21_1	fe:7f:47:5d:fb:42	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	28.80
1.25 android samsunge6	02:00:00:00:00:00	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	46.25
1.12 android samsung127	02:00:00:00:00:00	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	42.09	76.17
1.34 android samsunga13	8a:bd:f9:b8:5b:a	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	71.85	99.80
1.14 android samsung_a22	f0:65:ae:7b:2f:da	RDT_wpa2	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	16.72	74.98
1.18 android samsung13	b6:68:29:81:b6:03	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	10.59	99.45
1.38 android samsungm13	02:00:00:00:00:00	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	38.58	99.38
1.21 android Samsung_a13	5e:c8:4e:c0:43:48	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	71.94
1.19 android samsunga04	02:00:00:00:00:00	RDT_wpa	Background	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	49.07	81.03

Individual Bi-direction throughput with intended load Upload:1000.0 Mbps,Download:1000.0 Mbps/station for traffic BE(WiFi).

The below graph represents individual throughput for 45 clients running BE (WiFi) traffic. X- axis shows “number of clients” and Y-axis shows “Throughput in Mbps”.

Individual Bi-direction throughput for BE(WIFI) traffic





Client Name	MAC	SSID	Type of traffic	Traffic Direction	Traffic Protocol	Offered upload rate(Mbps)	Offered download rate(Mbps)	Observed upload rate(Mbps)	Observed download rate(Mbps)	Observed Upload Drop (%)	Observed Download Drop (%)
1.241 Win DESKTOP-QNG7LTT	5c:3a:45:49:22:c7	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.03	5.22	24.47
1.252 Win DESKTOP-HFOQ16U	64:6e:e0:f3:7d:2f	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	45.96	57.78
1.304 Lin test44	b0:35:9f:de:7f:c	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.15	0.04	5.51	3.45
1.305 Lin test26	64:6e:e0:92:29:e6	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.15	0.03	3.90	10.24
1.341 Lin test	:85:00:45:dc:cd	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.03	12.97	20.99
1.345 Lin test40	e4:b3:18:7d:76:db	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.04	15.58	6.98
1.410 Mac apples-Air1.lan	30:35:ad:c5:e1:be		Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.15
1.501 Win				Bi-		1000.0	1000.0				

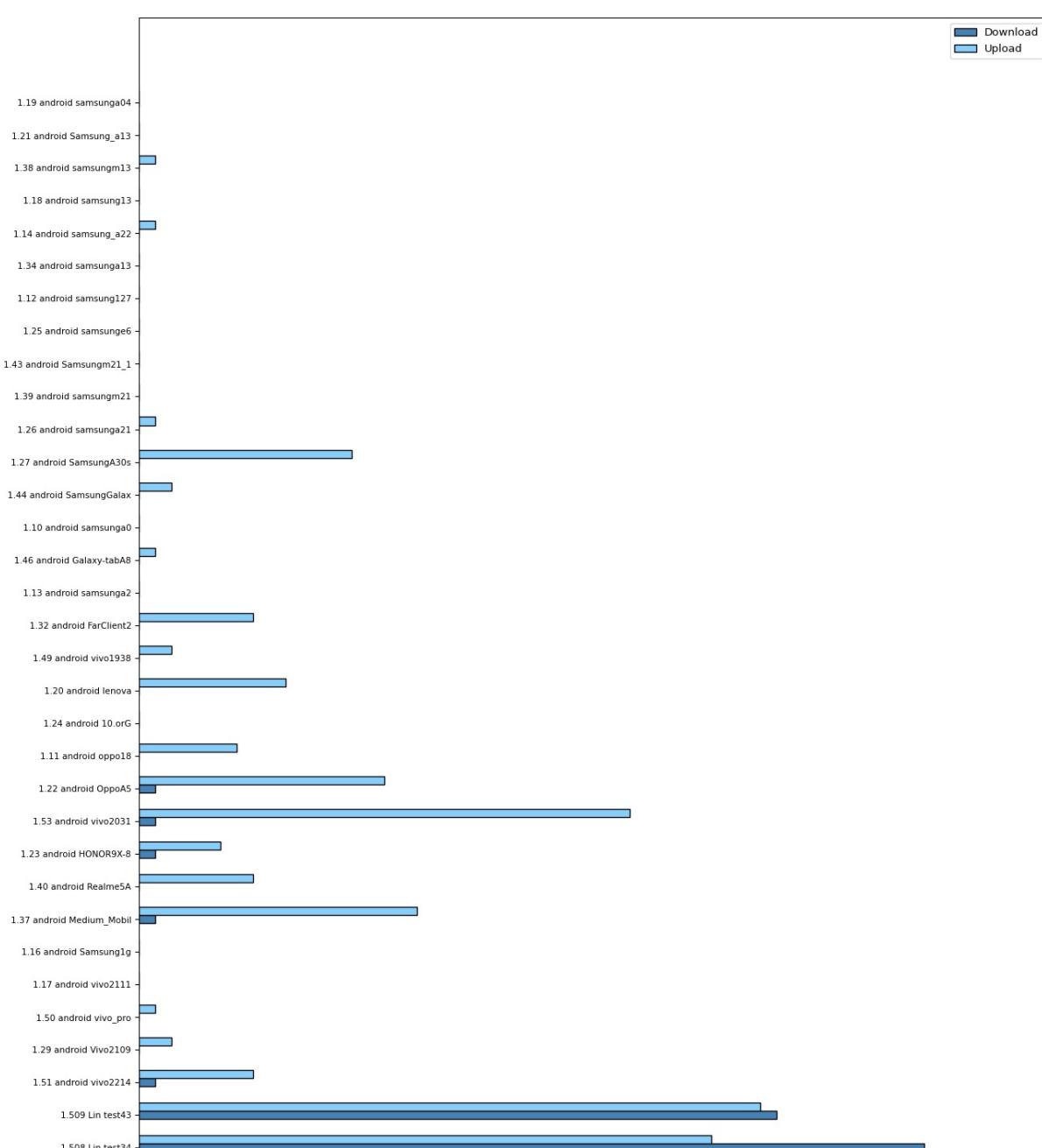
DESKTOP-3OSF0BQ	c:54:15:cb:95:5d	RDT_wpa2	Besteffort	direction	TCP	Mbps	Mbps	0.00	0.01	23.18	32.21
1.502 Win DESKTOP-DDPI3HE	e4:a4:71:93:70:e7	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	5.63	41.01
1.503 Win DESKTOP-ANHCCC5	:93:37:bf:3c:9a	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	86.87	84.95
1.505 Lin test42	f0:d5:bf:ae:b9:a	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.07	0.02	10.77	16.50
1.507 Win DESKTOP-7I77Q2N	4:ab:c5:c4:0b:0d	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.508 Lin test34	f0:d5:bf:4a:2e:14	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.09	0.04	6.37	5.75
1.509 Lin test43	e4:a4:71:23:99:aa	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.27	0.08	3.55	1.80
1.51 android vivo2214	6c:d1:99:34:ea:db	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	80.11
1.29 android Vivo2109	02:00:00:00:00:00	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	27.44	83.35
1.50 android vivo_pro	2:00:00:00:00:	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	64.56	80.85
1.17 android vivo2111	00:08:f4:26:00:68	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.16 android Samsung1g	0:f1:89:84:48:b5	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	63.92
1.37 android Medium_Mobile_2	2:ed:91:0f:22:1f	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.04	0.00	0.19	93.33
1.40 android Realme5A	82:b9:57:bd:31:6a	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.02	0.00	1.76	97.74
1.23 android HONOR9X-8	ac:bd:70:e2:e3:17	RDT_open	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.48	98.50
1.53 android vivo2031	02:00:00:00:00:00	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.05	0.00	1.78	96.75
1.22 android OppoA5	ea:6b:45:ee:31:c	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.05	0.00	2.16	95.53
1.11 android oppo18	96:55:b8:f3:cb:04	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.02	93.14
1.24 android 10.orG	d8:6c:02:b3:fa:98	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.20 android lenova	84:b8:b8:6c:79:05	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.04	0.00	7.02	95.69
1.49 android vivo1938	be:fa:ba:e3:13:40	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	93.95
1.32 android FarClient2	ce:54:77:de:00:b6	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	83.65
1.13 android samsunga2	2:cc:f7:41:33:1f	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.46 android Galaxy-tabA8-2	24:c6:13:99:92:3d	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	49.80
1.10 android samsunga0	a4:c6:9a:f2:2a:db	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	80.85
1.44 android SamsungGalaxy	72:e3:b7:56:3a:8	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.68
1.27 android SamsungA30s	:3c:38:1a:2e:1a	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.05	0.00	0.10	98.84
1.26 android samsunga21	3a:f8:b3:30:a3:8a	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	97.62
1.39 android samsungm21	06:d3:9d:b9:24:18	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	59.25
1.43 android Samsungm21_1	fe:7f:47:5d:fb:42	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	28.80
1.25 android samsunge6	02:00:00:00:00:00	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.11	69.74
1.12 android	02:00:00:00:00:00	RDT_wpa2	Besteffort	Bi-	TCP	1000.0	1000.0	0.00	0.00	39.54	74.57

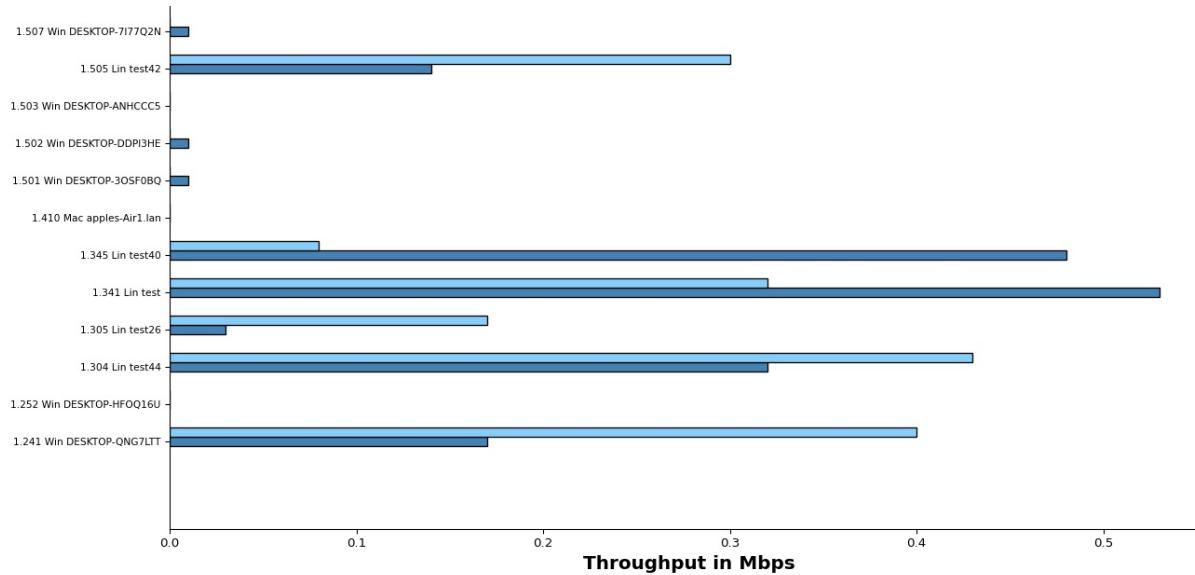
samsung127				direction		Mbps	Mbps				
1.34 android samsunga13	8a:bd:f9:b8:5b:a	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.95
1.14 android samsung_a22	f0:65:ae:7b:2f:da	RDT_wpa2	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.01	66.29
1.18 android samsung13	b6:68:29:81:b6:03	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	98.76
1.38 android samsungm13	02:00:00:00:00:00	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	15.54	98.29
1.21 android Samsung_a13	5e:c8:4e:c0:43:48	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	12.95	71.84
1.19 android samsunga04	02:00:00:00:00:00	RDT_wpa	Besteffort	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	5.37	77.38

Individual Bi-direction throughput with intended load Upload:1000.0 Mbps,Download:1000.0 Mbps/station for traffic VI(WiFi).

The below graph represents individual throughput for 45 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

Individual Bi-direction throughput for VI(WIFI) traffic



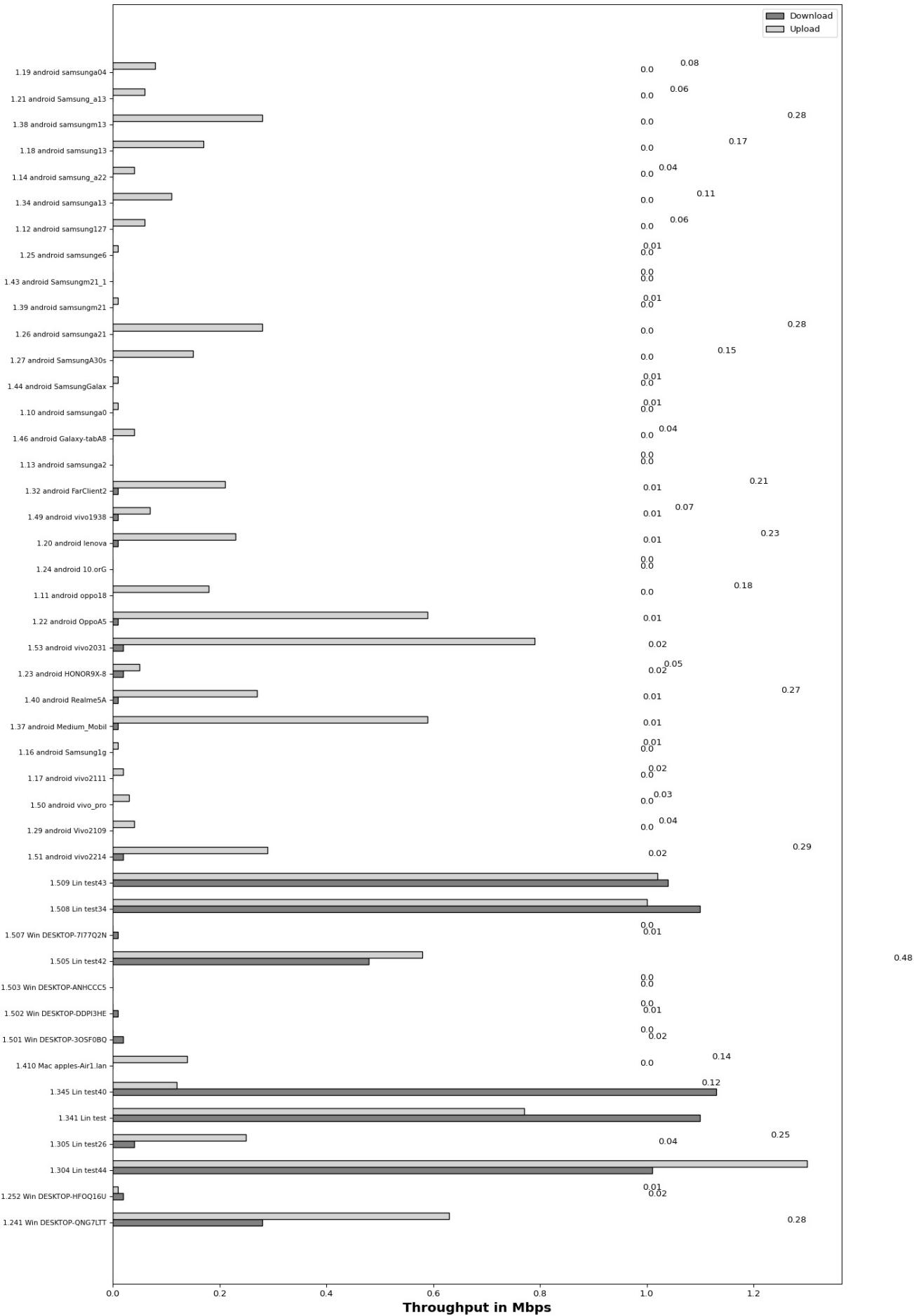


Client Name	MAC	SSID	Type of traffic	Traffic Direction	Traffic Protocol	Offered upload rate(Mbps)	Offered download rate(Mbps)	Observed upload rate(Mbps)	Observed download rate(Mbps)	Observed Upload Drop (%)	Observed Download Drop (%)
1.241 Win DESKTOP-QNG7LTT	5c:3a:45:49:22:c7	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.40	0.17	4.06	8.92
1.252 Win DESKTOP-HFOQ16U	64:6e:e0:f3:7d:2f	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	41.43	66.37
1.304 Lin test44	b0:35:9f:de:7f:c	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.43	0.32	1.13	0.39
1.305 Lin test26	64:6e:e0:92:29:e6	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.17	0.03	3.47	7.76
1.341 Lin test	:85:00:45:dc:cd	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.32	0.53	0.95	0.75
1.345 Lin test40	e4:b3:18:7d:76:db	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.08	0.48	1.22	0.74
1.410 Mac apples-Air1.lan	30:35:ad:c5:e1:be		Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.15
1.501 Win DESKTOP-3OSF0BQ	c:54:15:cb:95:5d	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	34.92	46.51
1.502 Win DESKTOP-DDPI3HE	e4:a4:71:93:70:e7	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	3.44	27.00
1.503 Win DESKTOP-ANHCC5	:93:37:bf:3c:9a	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	65.61	62.27
1.505 Lin test42	f0:d5:bf:ae:b9:a	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.30	0.14	2.19	1.47
1.507 Win DESKTOP-7I77Q2N	4:ab:c5:c4:0b:0d	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	28.60	33.35
1.508 Lin test34	f0:d5:bf:4a:2e:14	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.35	0.48	1.00	0.47
1.509 Lin test43	e4:a4:71:23:99:aa	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.38	0.39	1.35	0.44
1.51 android vivo2214	6c:d1:99:34:ea:db	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.07	0.01	0.03	68.46
1.29 android Vivo2109	02:00:00:00:00:00	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.02	0.00	0.01	79.10
1.50 android				Bi-		1000.0	1000.0				

vivo_pro	2:00:00:00:00:	RDT_wpa2	Video	direction	TCP	Mbps	Mbps	0.01	0.00	0.00	79.03
1.17 android vivo2111	00:08:f4:26:00:68	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	69.96
1.16 android Samsung1g	0:f1:89:84:48:b5	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	63.48
1.37 android Medium_Mobile_2	2:ed:91:0f:22:1f	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.17	0.01	0.00	93.99
1.40 android Realme5A	82:b9:57:bd:31:6a	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.07	0.00	0.80	95.04
1.23 android HONOR9X-8	ac:bd:70:e2:e3:17	RDT_open	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.05	0.01	0.32	93.48
1.53 android vivo2031	02:00:00:00:00:00	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.30	0.01	0.23	94.71
1.22 android OppoA5	ea:6b:45:ee:31:c	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.15	0.01	0.88	94.66
1.11 android oppo18	96:55:b8:f3:cb:04	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.00	0.00	90.89
1.24 android 10.orG	d8:6c:02:b3:fa:98	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.93
1.20 android lenova	84:b8:b8:6c:79:05	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.09	0.00	0.04	96.81
1.49 android vivo1938	be:fa:ba:e3:13:40	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.02	0.00	0.01	83.52
1.32 android FarClient2	ce:54:77:de:00:b6	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.07	0.00	0.39	77.61
1.13 android samsunga2	2:cc:f7:41:33:1f	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	0.00
1.46 android Galaxy-tabA8-2	24:c6:13:99:92:3d	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.03	43.87
1.10 android samsunga0	a4:c6:9a:f2:2a:db	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	80.00
1.44 android SamsungGalaxy	72:e3:b7:56:3a:8	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.02	0.00	0.00	98.41
1.27 android SamsungA30s	:3c:38:1a:2e:1a	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.13	0.00	0.12	97.70
1.26 android samsunga21	3a:f8:b3:30:a3:8a	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	98.73
1.39 android samsungm21	06:d3:9d:b9:24:18	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	59.25
1.43 android Samsungm21_1	fe:7f:47:5d:fb:42	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	28.80
1.25 android samsunge6	02:00:00:00:00:00	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	62.27
1.12 android samsung127	02:00:00:00:00:00	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	1.96	65.93
1.34 android samsunga13	8a:bd:f9:b8:5b:a	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.11	98.77
1.14 android samsung_a22	f0:65:ae:7b:2f:da	RDT_wpa2	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.03	57.13
1.18 android samsung13	b6:68:29:81:b6:03	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.21
1.38 android samsungm13	02:00:00:00:00:00	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	97.09
1.21 android Samsung_a13	5e:c8:4e:c0:43:48	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	65.73
1.19 android samsunga04	02:00:00:00:00:00	RDT_wpa	Video	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	2.25	73.22

Individual Bi-direction throughput with intended load Upload:1000.0 Mbps,Download:1000.0 Mbps/station for traffic VO(WiFi).

The below graph represents individual throughput for 45 clients running VO (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



Client Name	MAC	SSID	Type of traffic	Traffic Direction	Traffic Protocol	Offered upload rate(Mbps)	Offered download rate(Mbps)	Observed upload rate(Mbps)	Observed download rate(Mbps)	Observed Upload Drop (%)	Observed Download Drop (%)
1.241 Win DESKTOP-QNG7LTT	5c:3a:45:49:22:c7	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.63	0.28	1.72	8.26
1.252 Win DESKTOP-HFOQ16U	64:6e:e0:f3:7d:2f	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.02	24.71	42.10
1.304 Lin test44	b0:35:9f:de:7f:c	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	1.30	1.01	0.41	0.45
1.305 Lin test26	64:6e:e0:92:29:e6	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.25	0.04	2.84	11.19
1.341 Lin test	:85:00:45:dc:cd	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.77	1.10	0.60	0.46
1.345 Lin test40	e4:b3:18:7d:76:db	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.12	1.13	0.76	0.35
1.410 Mac apples-Air1.lan	30:35:ad:c5:e1:be		Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.14	0.00	0.00	99.33
1.501 Win DESKTOP-3OSF0BQ	c:54:15:cb:95:5d	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.02	11.31	18.39
1.502 Win DESKTOP-DDPI3HE	e4:a4:71:93:70:e7	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	2.19	13.95
1.503 Win DESKTOP-ANHCCC5	:93:37:bf:3c:9a	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	74.32	59.47
1.505 Lin test42	f0:d5:bf:ae:b9:a	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.58	0.48	1.01	0.48
1.507 Win DESKTOP-7I77Q2N	4:ab:c5:c4:0b:0d	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.01	44.47	44.57
1.508 Lin test34	f0:d5:bf:4a:2e:14	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	1.00	1.10	0.42	0.27
1.509 Lin test43	e4:a4:71:23:99:aa	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	1.02	1.04	0.60	0.26
1.51 android vivo2214	6c:d1:99:34:ea:db	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.29	0.02	0.00	87.09
1.29 android Vivo2109	02:00:00:00:00:00	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.04	0.00	0.01	79.91
1.50 android vivo_pro	2:00:00:00:00:	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.03	0.00	0.02	98.37
1.17 android vivo2111	00:08:f4:26:00:68	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.02	0.00	0.00	69.96
1.16 android Samsung1g	0:f1:89:84:48:b5	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	96.22
1.37 android Medium_Mobile_2	2:ed:91:0f:22:1f	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.59	0.01	0.00	93.63
1.40 android Realme5A	82:b9:57:bd:31:6a	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.27	0.01	0.05	92.16
1.23 android HONOR9X-8	ac:bd:70:e2:e3:17	RDT_open	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.05	0.02	0.00	94.69
1.53 android vivo2031	02:00:00:00:00:00	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.79	0.02	0.08	95.10
1.22 android OppoA5	ea:6b:45:ee:31:c	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.59	0.01	0.98	93.62
1.11 android oppo18	96:55:b8:f3:cb:04	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.18	0.00	0.00	89.84
1.24 android 10.orG	d8:6c:02:b3:fa:98	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	99.96

1.20 android lenova	84:b8:b8:6c:79:05	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.23	0.01	0.03	96.63
1.49 android vivo1938	be:fa:ba:e3:13:40	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.07	0.01	0.05	85.71
1.32 android FarClient2	ce:54:77:de:00:b6	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.21	0.01	0.01	90.44
1.13 android samsunga2	2:cc:f7:41:33:1f	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	45.82
1.46 android Galaxy-tabA8-2	24:c6:13:99:92:3d	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.04	0.00	0.06	44.37
1.10 android samsunga0	a4:c6:9a:f2:2a:db	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	99.20
1.44 android SamsungGalaxy	72:e3:b7:56:3a:8	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	98.62
1.27 android SamsungA30s	:3c:38:1a:2e:1a	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.15	0.00	0.06	98.49
1.26 android samsunga21	3a:f8:b3:30:a3:8a	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.28	0.00	0.00	97.98
1.39 android samsungm21	06:d3:9d:b9:24:18	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	59.25
1.43 android Samsungm21_1	fe:7f:47:5d:fb:42	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.00	0.00	0.00	28.80
1.25 android samsunge6	02:00:00:00:00:00	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.01	0.00	0.00	92.65
1.12 android samsung127	02:00:00:00:00:00	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.00	0.00	67.20
1.34 android samsunga13	8a:bd:f9:b8:5b:a	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.11	0.00	0.00	88.07
1.14 android samsung_a22	f0:65:ae:7b:2f:da	RDT_wpa2	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.04	0.00	0.02	57.17
1.18 android samsung13	b6:68:29:81:b6:03	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.17	0.00	0.00	99.09
1.38 android samsungm13	02:00:00:00:00:00	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.28	0.00	0.00	97.71
1.21 android Samsung_a13	5e:c8:4e:c0:43:48	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.06	0.00	0.00	67.79
1.19 android samsunga04	02:00:00:00:00:00	RDT_wpa	Voice	Bi-direction	TCP	1000.0 Mbps	1000.0 Mbps	0.08	0.00	0.01	72.65

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