Interop QOS

2025-09-05-18-06-08

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.

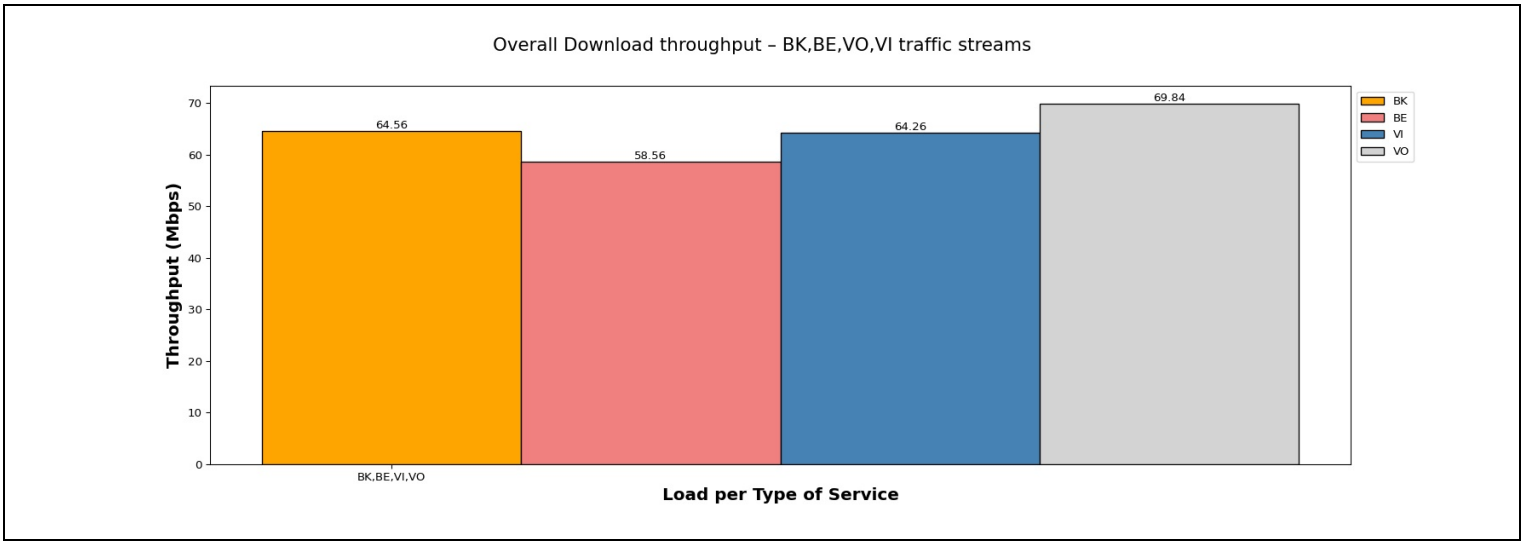
Test Configuration	Device List	DESKTOP-MNRRV9Q(Windows), DESKTOP-L5166RG(Windows), test(Windows), DESKTOP-VCHOOU1(Windows), macbooks-Mac(Android), itel_P55_5G(Android), Oppo3x(Android), Samsung_M14(Android), smarttv(Android), Oppo_A3X(Android)
	Number of Stations	Total(10) Android(6) Windows(4)
	AP Model	Test_DUT
	SSID	Test Configured
	Traffic Duration in hours	0.02
	Security	Test Configured
	Protocol	TCP
	Traffic Direction	Download
	TOS	['VO', 'VI', 'BE', 'BK']
	Per TOS Load in Mbps	10.0 Mbps

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

No of Stations	Throughput for Load 10.0 Mbps-download
10	BK : 64.56, BE : 58.56, VI: 64.26, VO: 69.84

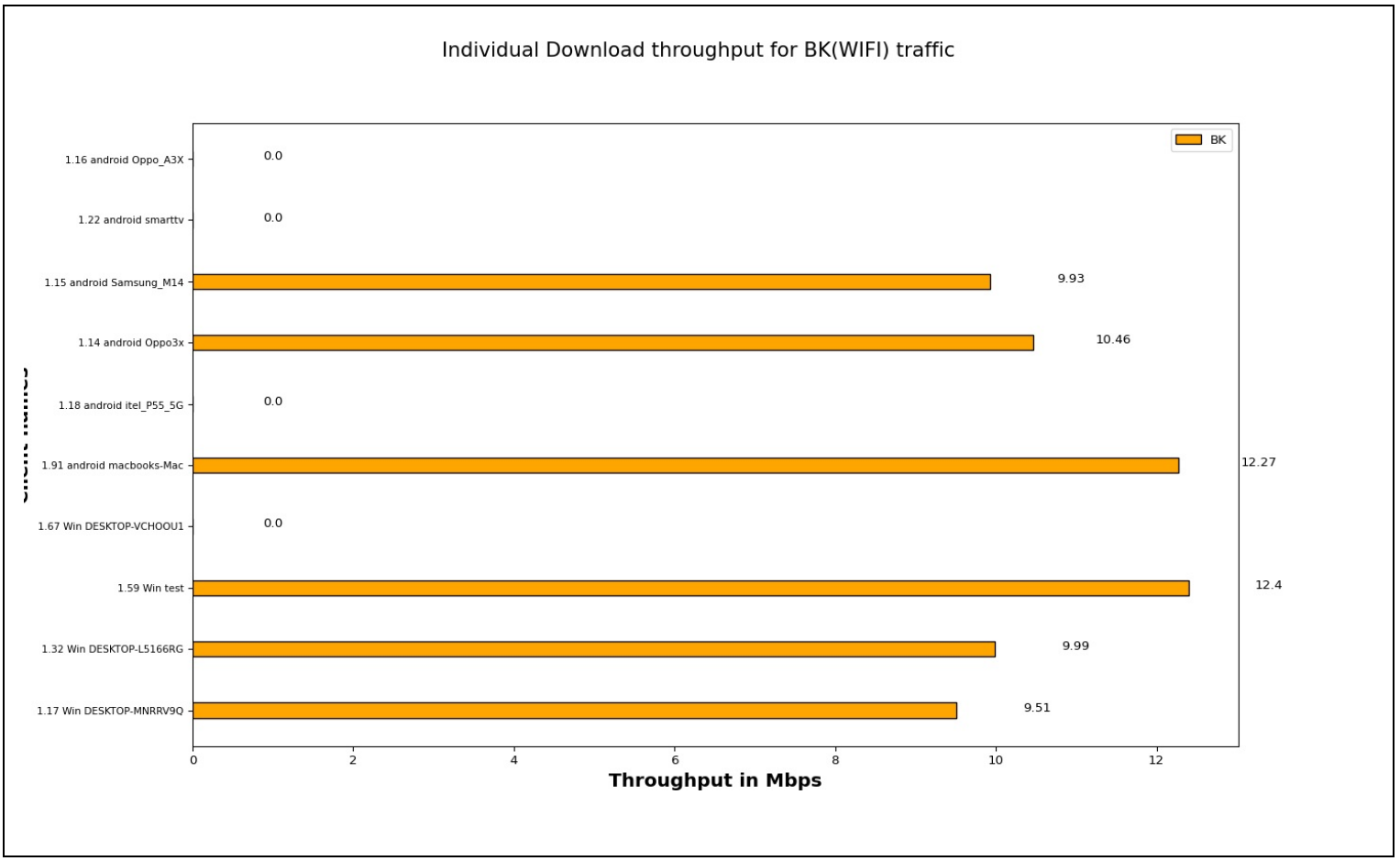
Overall Download throughput for 10 clients with different TOS.

The below graph represents overall Download throughput for all connected stations running BK, BE, VO, VI traffic with different intended loads10.0 Mbps per tos



Individual Download throughput with intended load 10.0 Mbps/station for traffic BK(WiFi).

The below graph represents individual throughput for 10 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".

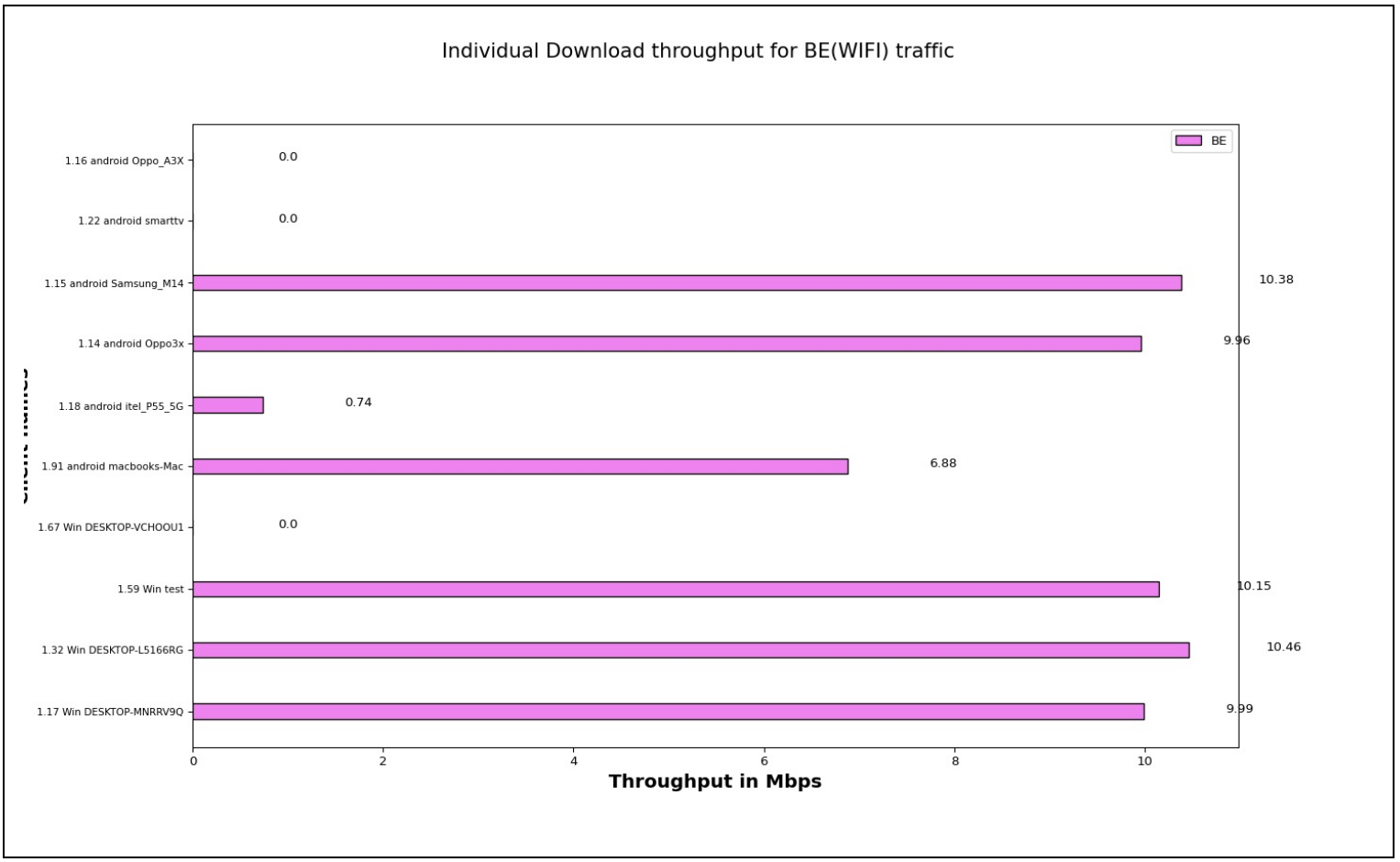


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.17 Win DESKTOP-MNRRV9Q	70:15:fb:0f:e8:b2	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	8.23 Mbps	0.0	0.00
1.32 Win DESKTOP-L5166RG	70:15:fb:0f:e9:ac	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.8 Mbps	0.0	0.00
1.59 Win test	64:5d:86:28:c3:87	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.7 Mbps	0.0	0.33
1.67 Win				0.0					

DESKTOP-VCHOOU1	f8:e4:e3:9a:98:81	Testhouse	Background	Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	88.24
1.91 android macbooks-Mac	aa:37:65:db:da:c6	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	8.4 Mbps	0.0	1.01
1.18 android itel_P55_5G	5a:f3:d2:a5:60:59	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	100.00
1.14 android Oppo3x	fe:95:48:cb:a8:80	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android Samsung_M14	2a:ec:5c:bf:0b:c6	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.22 android smarttv	38:c8:04:58:cc:23	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	0.00
1.16 android Oppo_A3X	2e:68:2d:99:ac:d0	Testhouse	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	0.00

Individual Download throughput with intended load 10.0 Mbps/station for traffic BE(WiFi).

The below graph represents individual throughput for 10 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

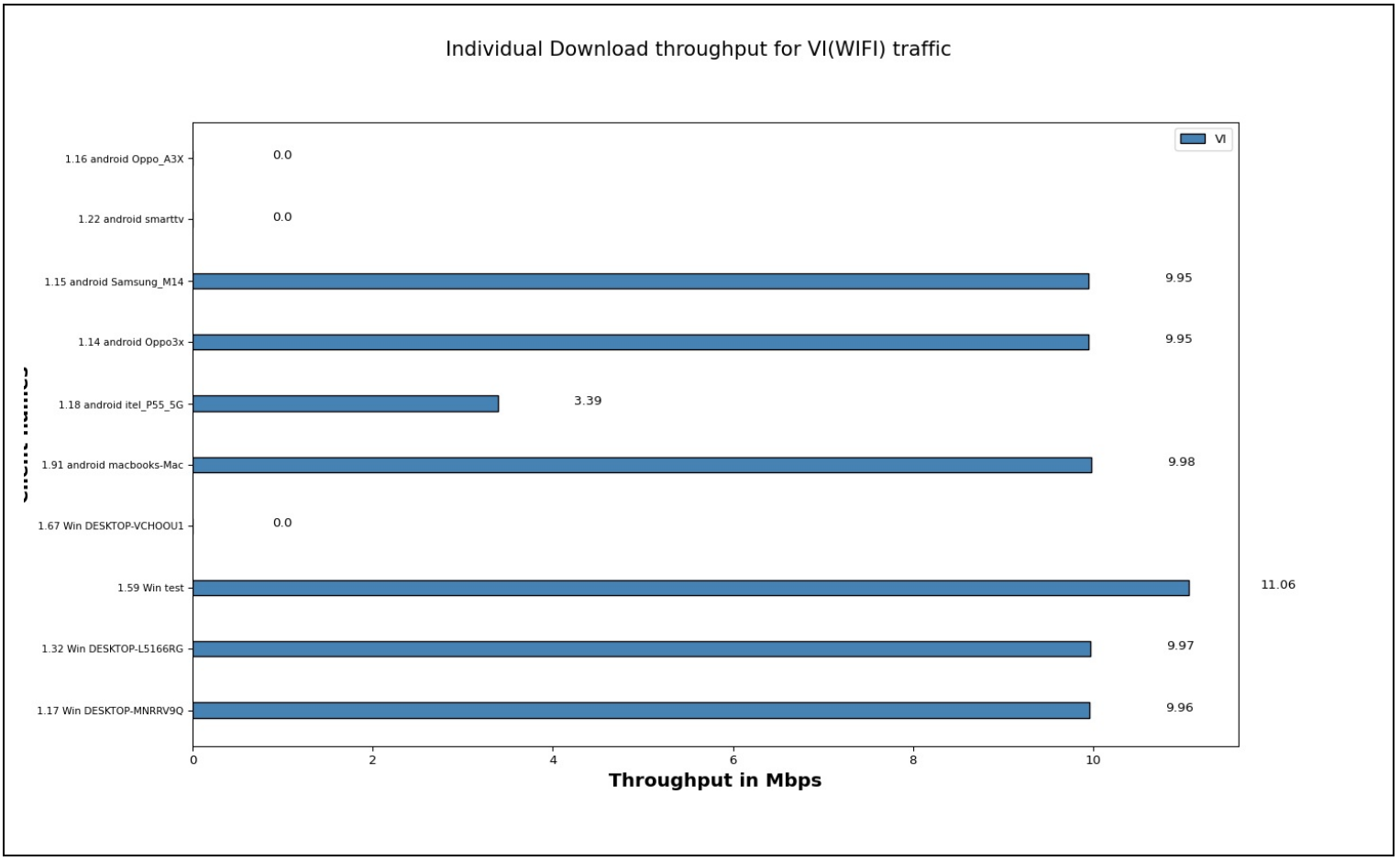


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.17 Win DESKTOP-MNRRV9Q	70:15:fb:0f:e8:b2	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.42 Mbps	0.0	0.00
1.32 Win DESKTOP-L5166RG	70:15:fb:0f:e9:ac	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.01
1.59 Win test	64:5d:86:28:c3:87	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.26 Mbps	0.0	1.53
1.67 Win DESKTOP-VCHOOU1	f8:e4:e3:9a:98:81	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	51.61

1.91 android macbooks-Mac	aa:37:65:db:da:c6	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	6.33 Mbps	0.0	7.63
1.18 android itel_P55_5G	5a:f3:d2:a5:60:59	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.12 Mbps	0.0	48.01
1.14 android Oppo3x	fe:95:48:cb:a8:80	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.98 Mbps	0.0	0.01
1.15 android Samsung_M14	2a:ec:5c:bf:0b:c6	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.62 Mbps	0.0	0.00
1.22 android smarttv	38:c8:04:58:cc:23	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	0.00
1.16 android Oppo_A3X	2e:68:2d:99:ac:d0	Testhouse	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	0.00

Individual Download throughput with intended load 10.0 Mbps/station for traffic VI(WiFi).

The below graph represents individual throughput for 10 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

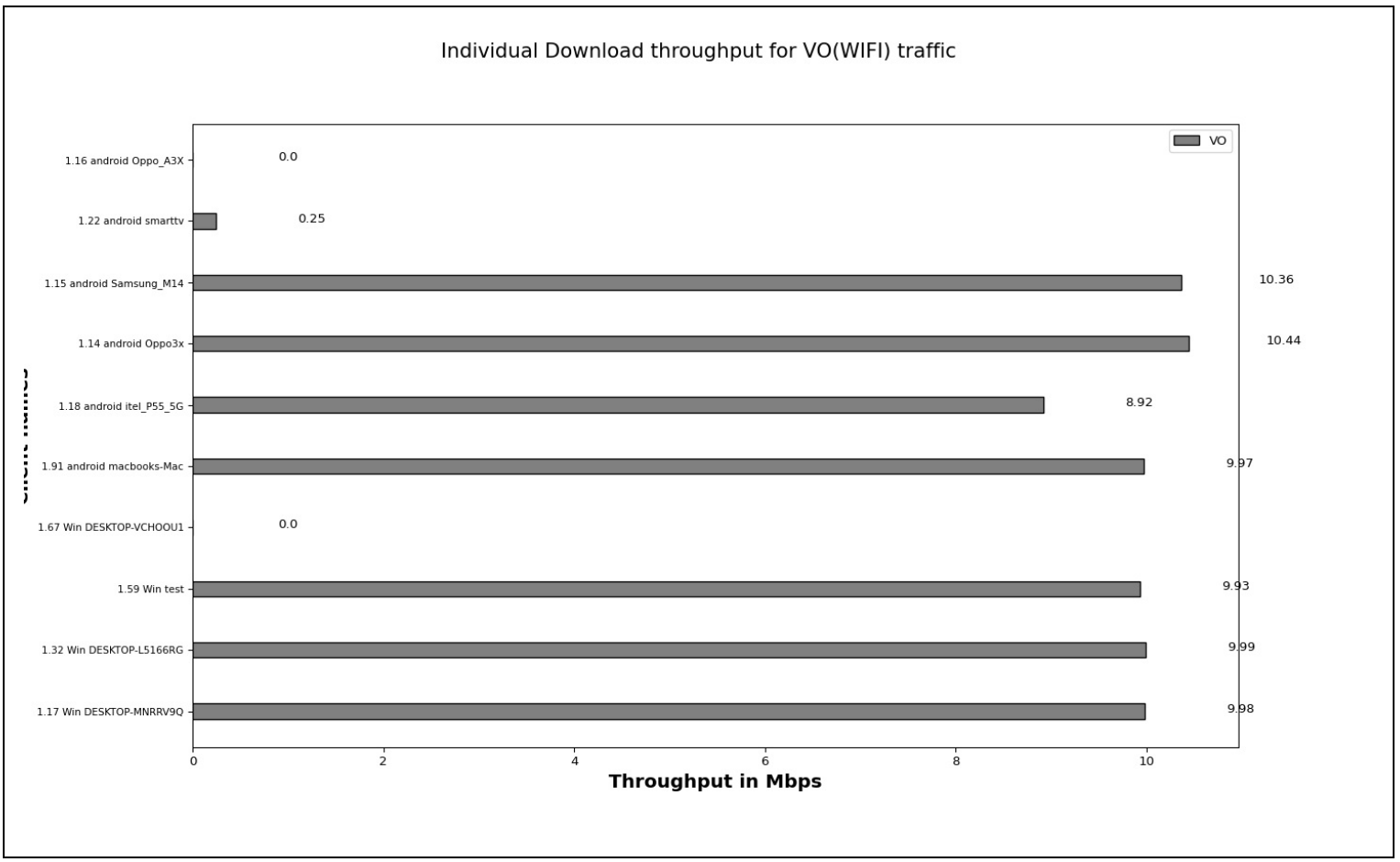


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.17 Win DESKTOP-MNRRV9Q	70:15:fb:0f:e8:b2	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.02
1.32 Win DESKTOP-L5166RG	70:15:fb:0f:e9:ac	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.98 Mbps	0.0	0.00
1.59 Win test	64:5d:86:28:c3:87	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.02 Mbps	0.0	0.00
1.67 Win DESKTOP-VCHOOU1	f8:e4:e3:9a:98:81	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	20.00
1.91 android macbooks-	aa:37:65:db:da:c6	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.02 Mbps	0.0	0.00

Mac									
1.18 android itel_P55_5G	5a:f3:d2:a5:60:59	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	2.02 Mbps	0.0	38.91
1.14 android Oppo3x	fe:95:48:cb:a8:80	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.02 Mbps	0.0	0.00
1.15 android Samsung_M14	2a:ec:5c:bf:0b:c6	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.01
1.22 android smarttv	38:c8:04:58:cc:23	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	0.00
1.16 android Oppo_A3X	2e:68:2d:99:ac:d0	Testhouse	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.0 Mbps	0.0	90.20

Individual Download throughput with intended load 10.0 Mbps/station for traffic VO(WiFi).

The below graph represents individual throughput for 10 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	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.17 Win DESKTOP-MNRRV9Q	70:15:fb:0f:e8:b2	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.99 Mbps	0.0	0.02
1.32 Win DESKTOP-L5166RG	70:15:fb:0f:e9:ac	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.59 Win test	64:5d:86:28:c3:87	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.8 Mbps	0.0	0.01
1.67 Win DESKTOP-VCHOOU1	f8:e4:e3:9a:98:81	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.05 Mbps	0.0	7.24
1.91 android macbooks-Mac	aa:37:65:db:da:c6	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.05
1.18 android									

itel_P55_5G	5a:f3:d2:a5:60:59	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	5.02 Mbps	0.0	20.55
1.14 android Oppo3x	fe:95:48:cb:a8:80	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.00
1.15 android Samsung_M14	2a:ec:5c:bf:0b:c6	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.6 Mbps	0.0	0.00
1.22 android smarttv	38:c8:04:58:cc:23	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	2.48 Mbps	0.0	61.06
1.16 android Oppo_A3X	2e:68:2d:99:ac:d0	Testhouse	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.01 Mbps	0.0	71.59

Information		
	contact	support@candelatech.com