Interop QOS

2026-02-13-01-24-05

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	Red_Magic(Android), SamsungPhone(Android)
	Number of Stations	Total(2) Android(2)
	AP Model	Test-AP
	SSID	Roaming
	Traffic Duration in hours	0.02
	Security	None
	Protocol	TCP
	Traffic Direction	Download
	TOS	['VO', 'VI', 'BE', 'BK']
	Per TOS Load in Mbps	10.0 Mbps
	Coordinates	['5', '6', '8', '30', '10']

Achieved Average Download TCP Throughput: VO

Floor : 4th_Floor

Achieved Average Download TCP Throughput: VI

Floor : 4th_Floor

Achieved Average Download TCP Throughput: BE

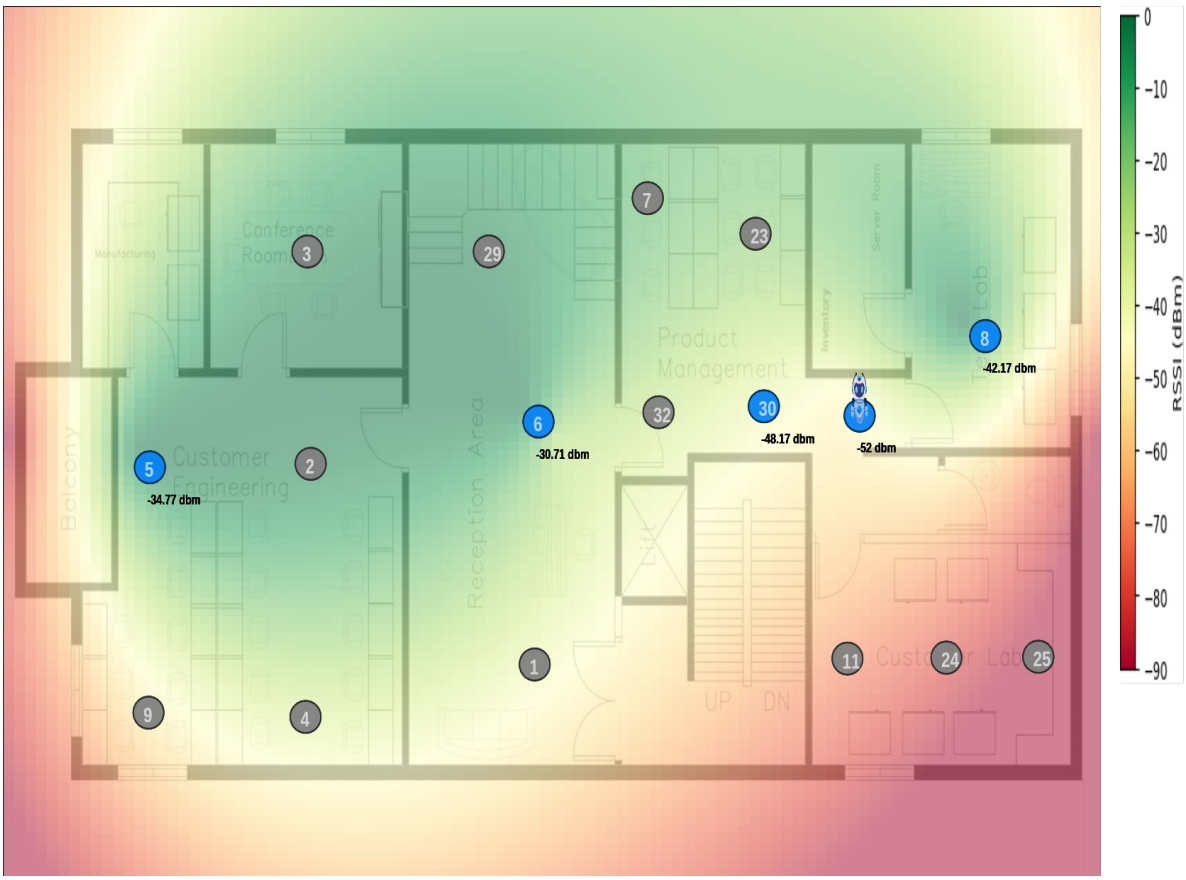
Floor : 4th_Floor

Achieved Average Download TCP Throughput: BK

Floor : 4th_Floor

Achieved Average RSSI

4th_Floor



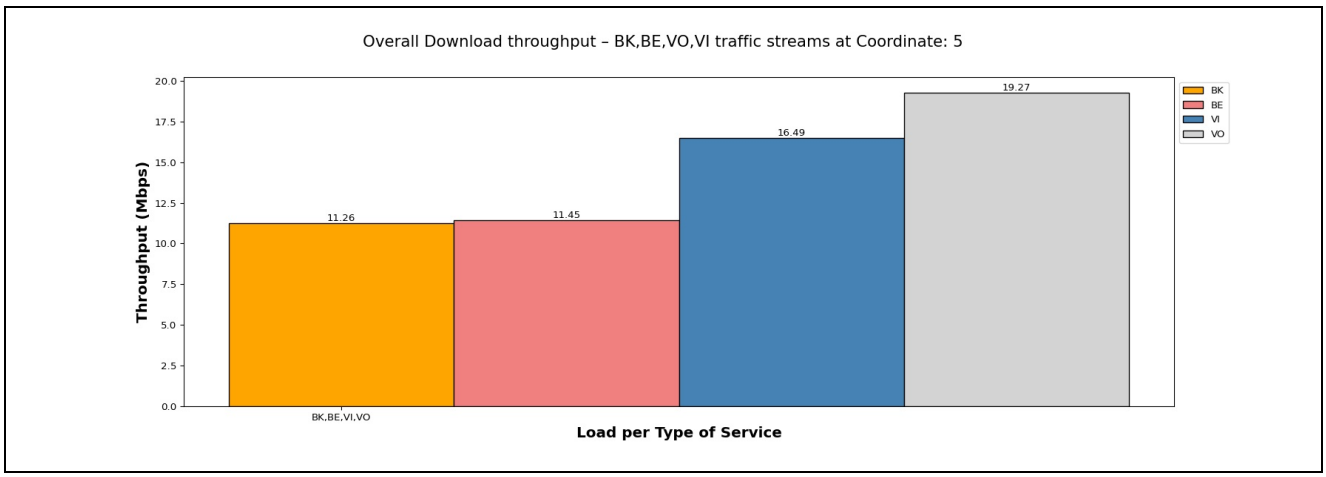
Coordinate: 5

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

No of Stations	Throughput for Load 10.0 Mbps-download
2	BK : 11.26, BE : 11.45, VI: 16.49, VO: 19.27

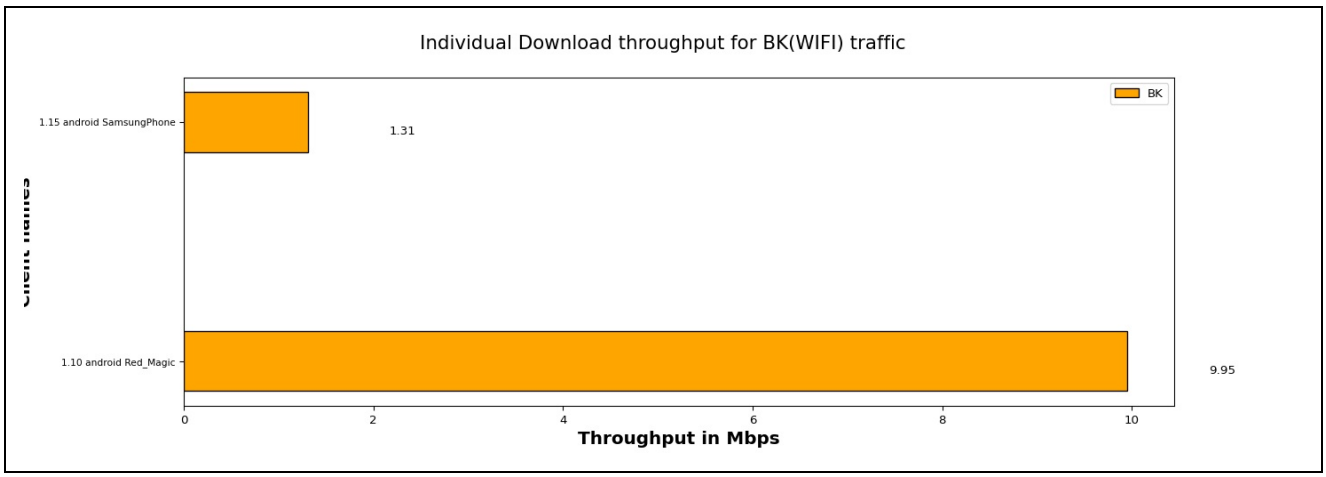
Overall Download throughput for 2 clients with different TOS.

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).

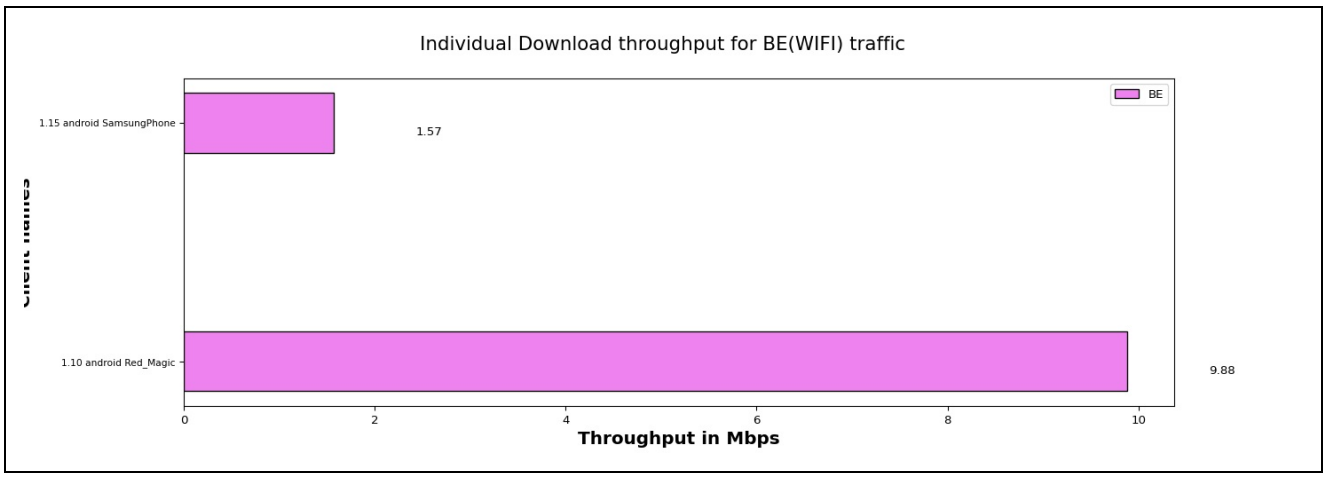
The below graph represents individual throughput for 2 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.98 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.2 Mbps	0.0	11.54

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

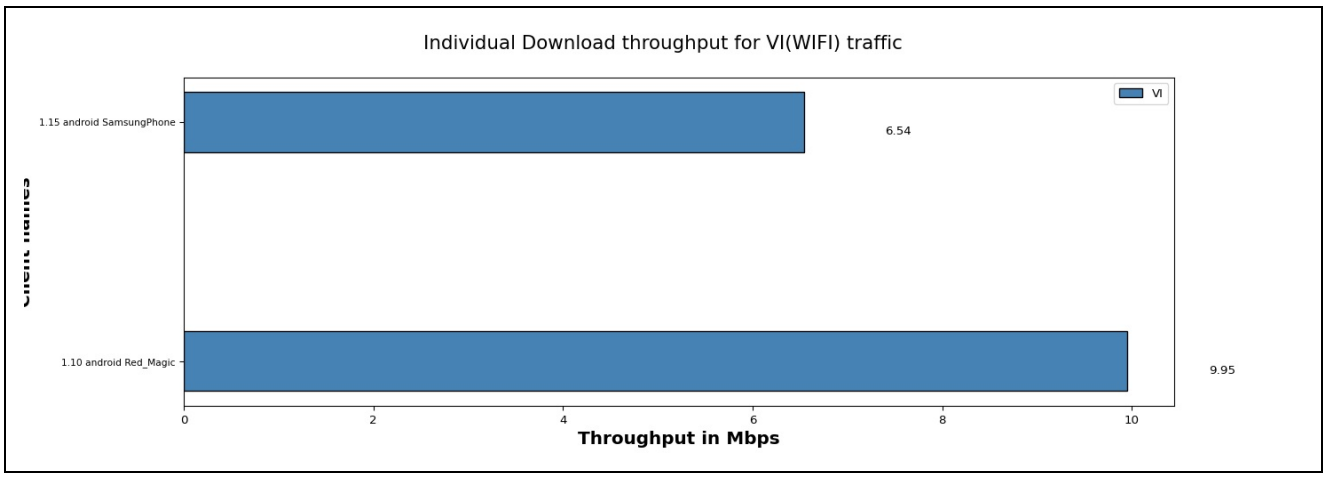
The below graph represents individual throughput for 2 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.98 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	1.1 Mbps	0.0	30.61

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

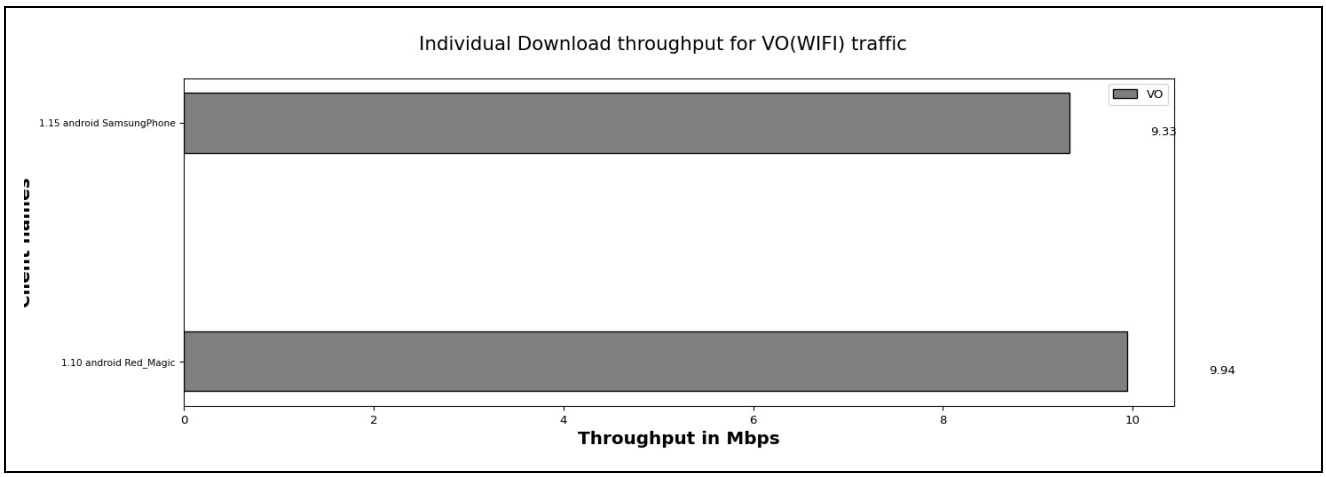
The below graph represents individual throughput for 2 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.98 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	3.07 Mbps	0.0	18.22

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

The below graph represents individual throughput for 2 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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	6.18 Mbps	0.0	1.46

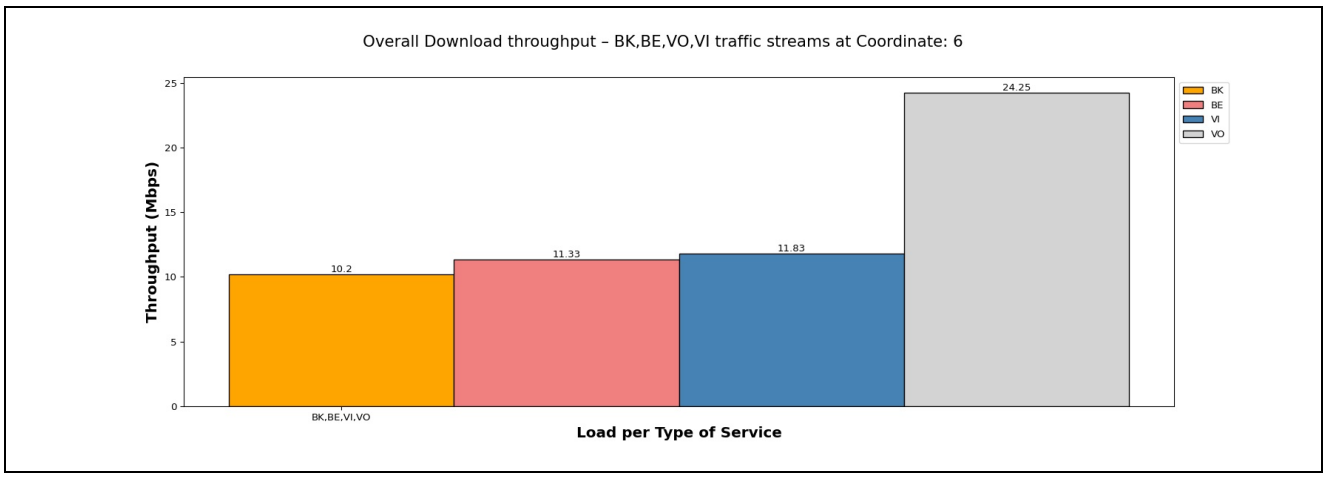
Coordinate: 6

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

No of Stations	Throughput for Load 10.0 Mbps-download
2	BK : 10.2, BE : 11.33, VI: 11.83, VO: 24.25

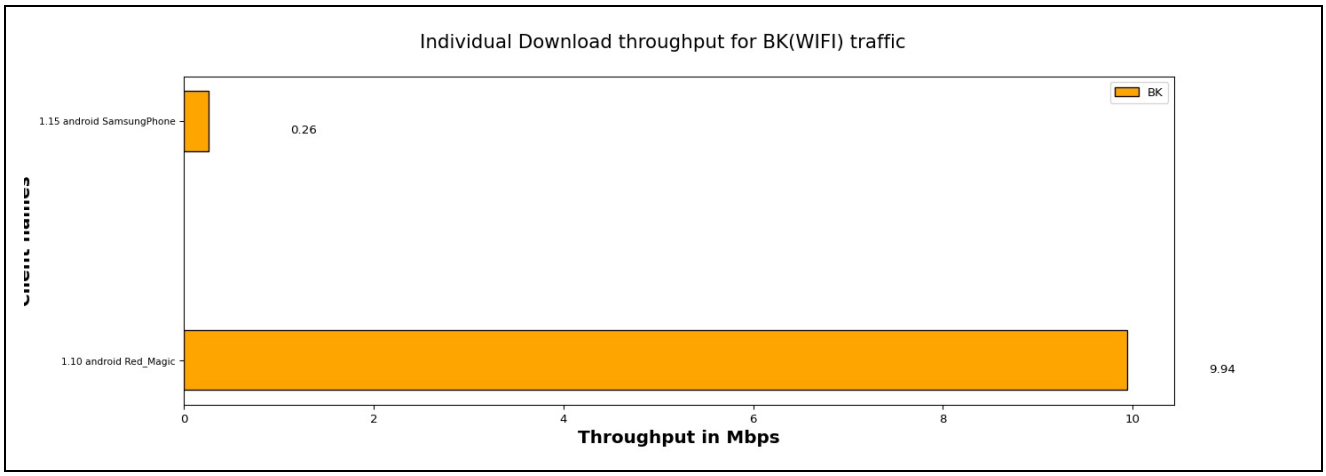
Overall Download throughput for 2 clients with different TOS.

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).

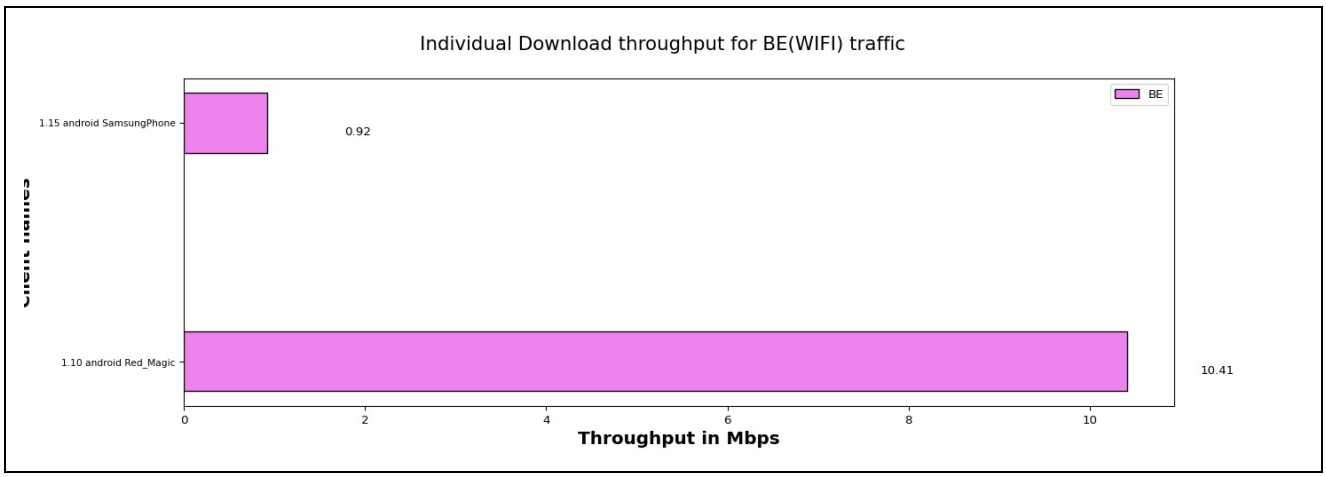
The below graph represents individual throughput for 2 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.3 Mbps	0.0	52.31

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

The below graph represents individual throughput for 2 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

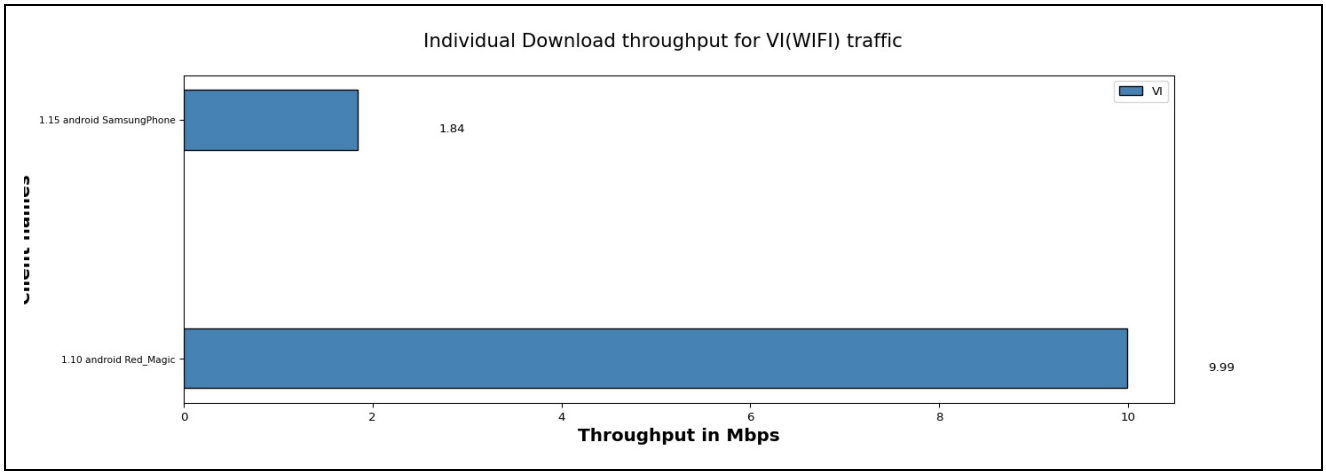


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00

1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.83 Mbps	0.0	52.13

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

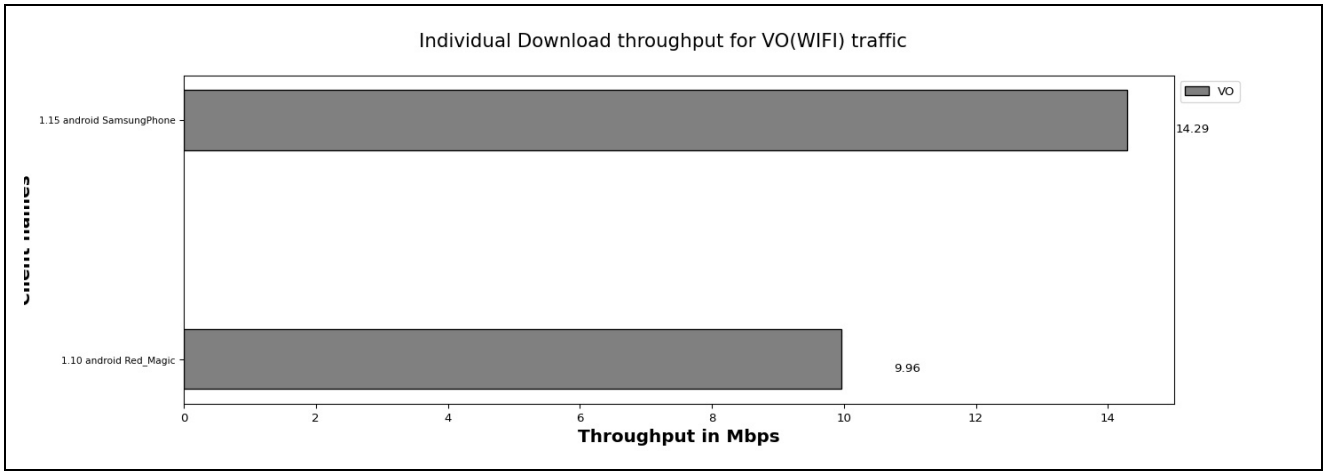
The below graph represents individual throughput for 2 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	9.99 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	3.65 Mbps	0.0	37.48

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

The below graph represents individual throughput for 2 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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.42 Mbps	0.0	11.16

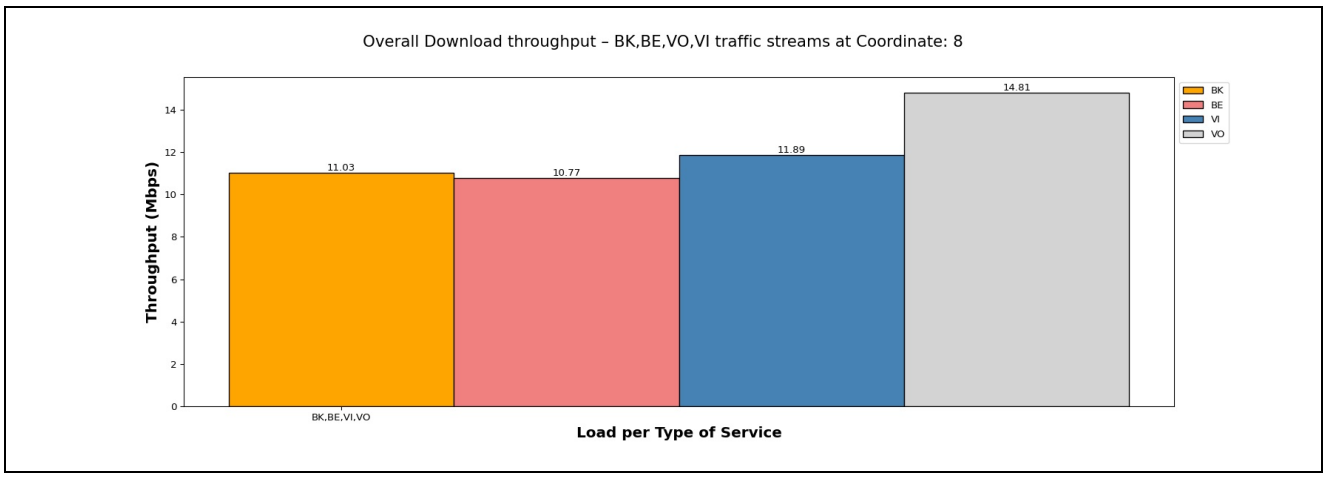
Coordinate: 8

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

No of Stations	Throughput for Load 10.0 Mbps-download
2	BK : 11.03, BE : 10.77, VI: 11.89, VO: 14.81

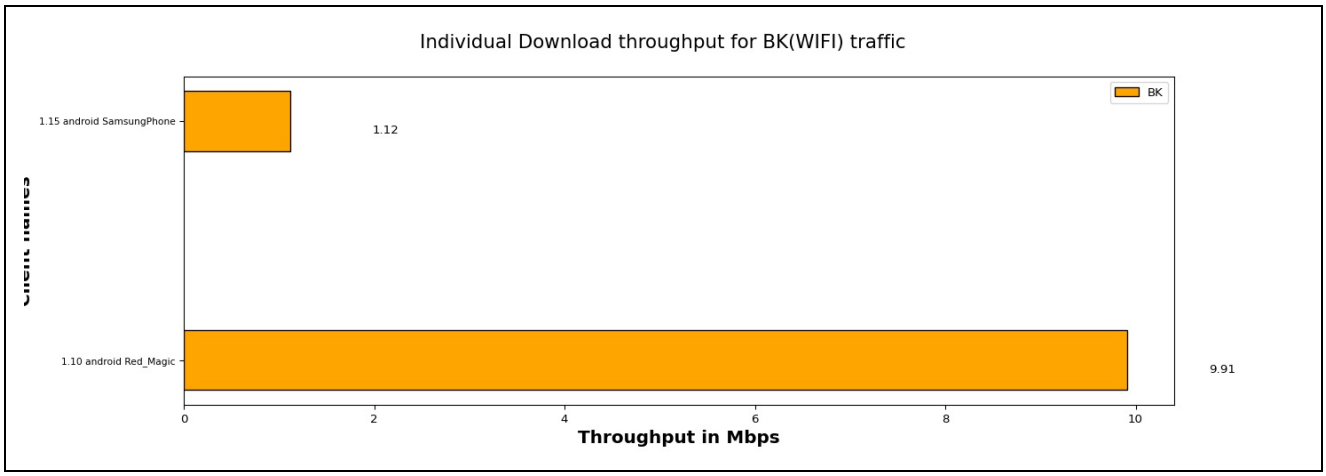
Overall Download throughput for 2 clients with different TOS.

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).

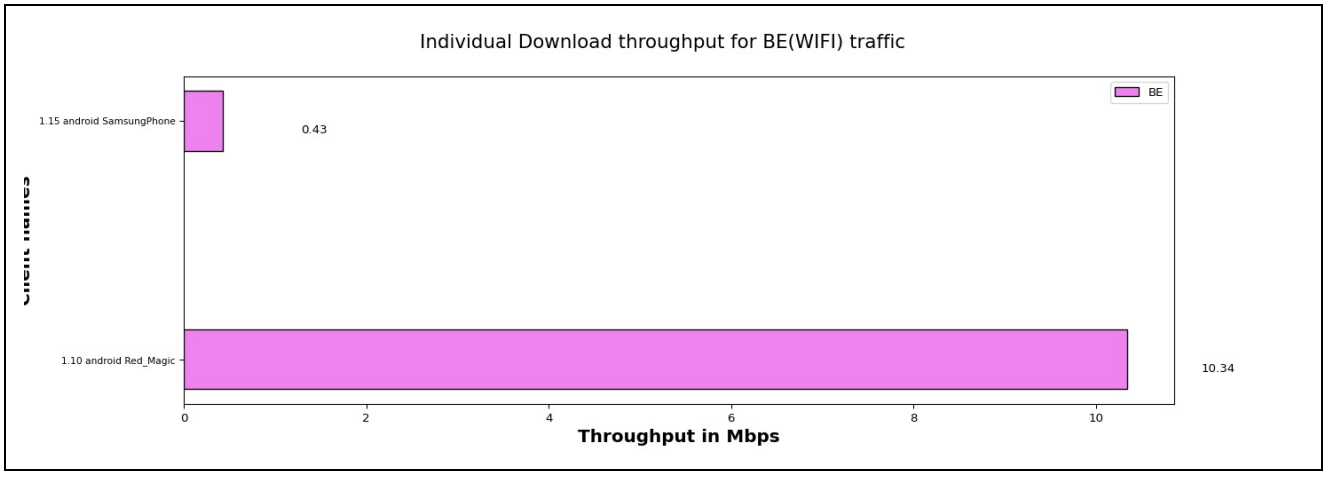
The below graph represents individual throughput for 2 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.09
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.33 Mbps	0.0	45.23

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

The below graph represents individual throughput for 2 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

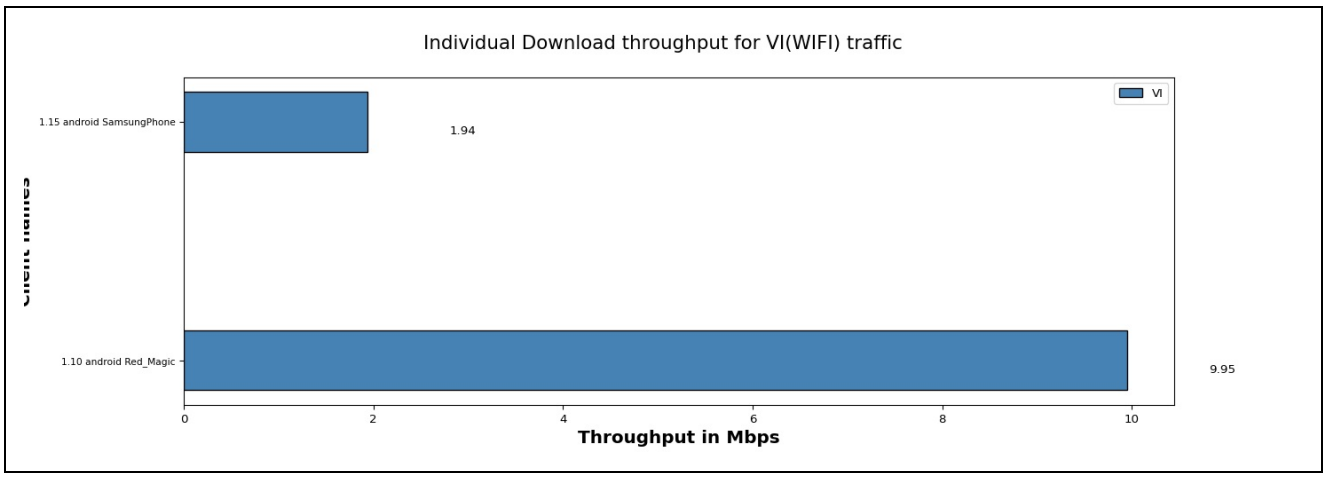


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00

1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.53 Mbps	0.0	58.79

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

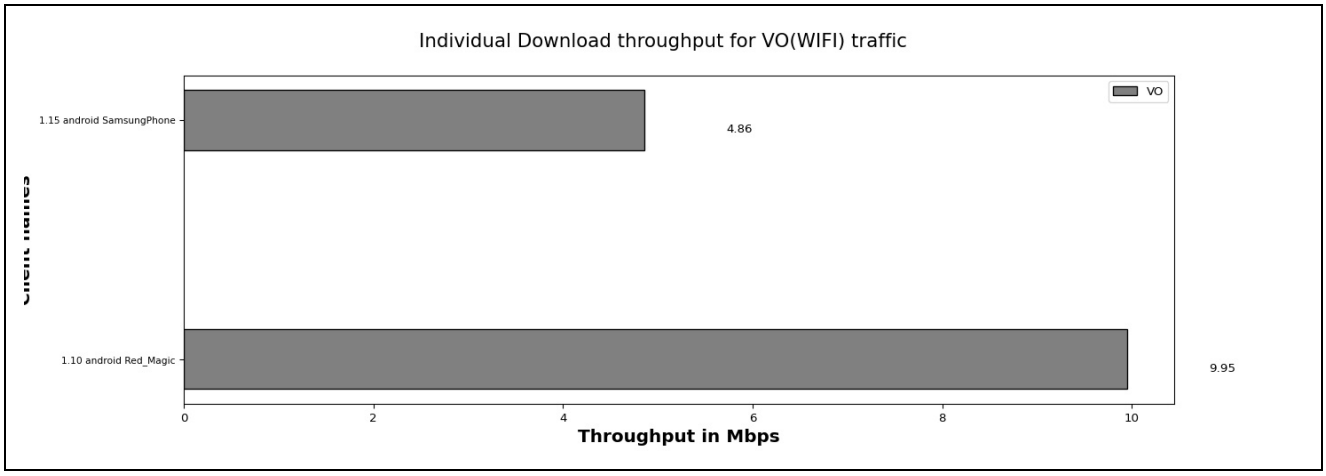
The below graph represents individual throughput for 2 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	2.52 Mbps	0.0	10.29

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

The below graph represents individual throughput for 2 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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	4.32 Mbps	0.0	12.25

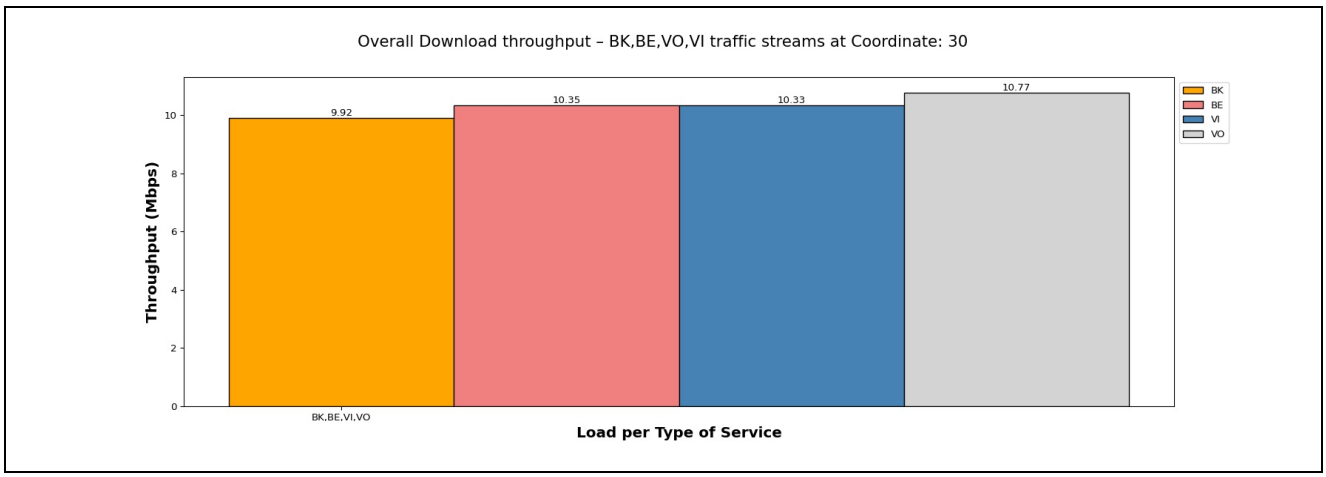
Coordinate: 30

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

No of Stations	Throughput for Load 10.0 Mbps-download
2	BK : 9.92, BE : 10.35, VI: 10.33, VO: 10.77

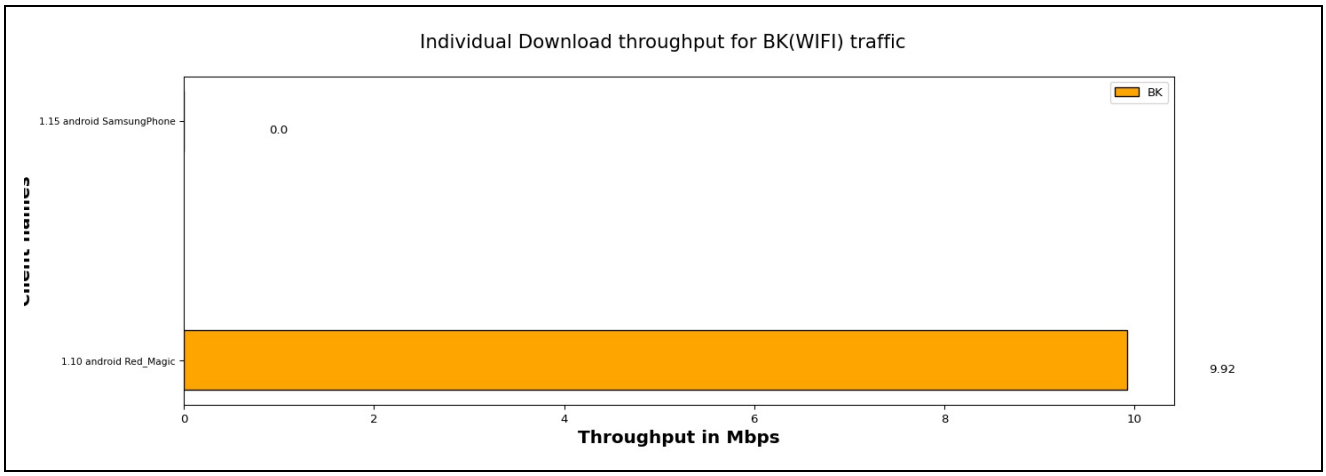
Overall Download throughput for 2 clients with different TOS.

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).

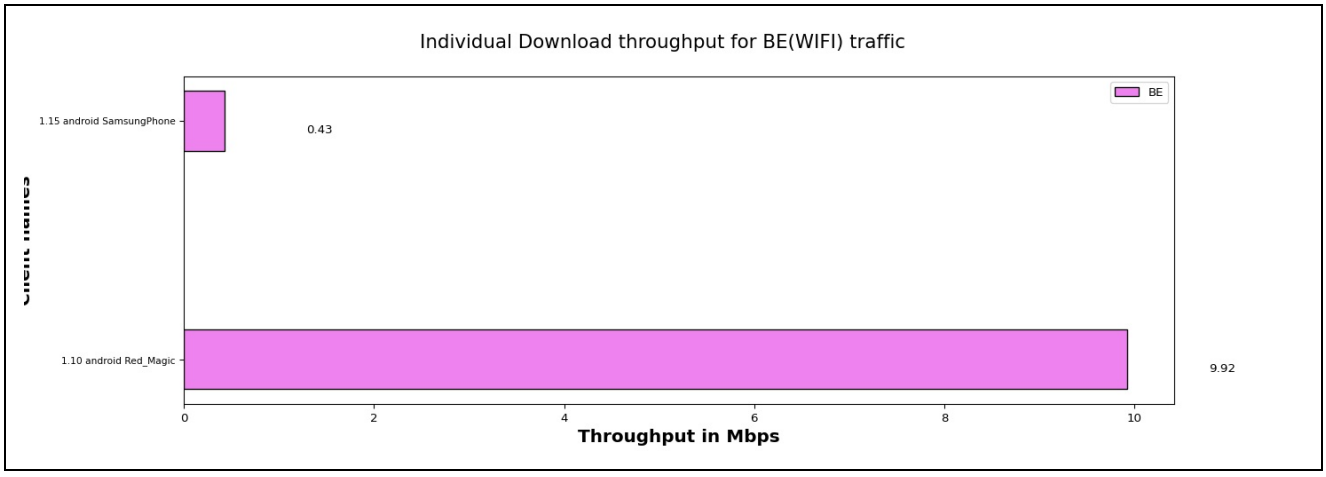
The below graph represents individual throughput for 2 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.01 Mbps	0.0	87.98

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

The below graph represents individual throughput for 2 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

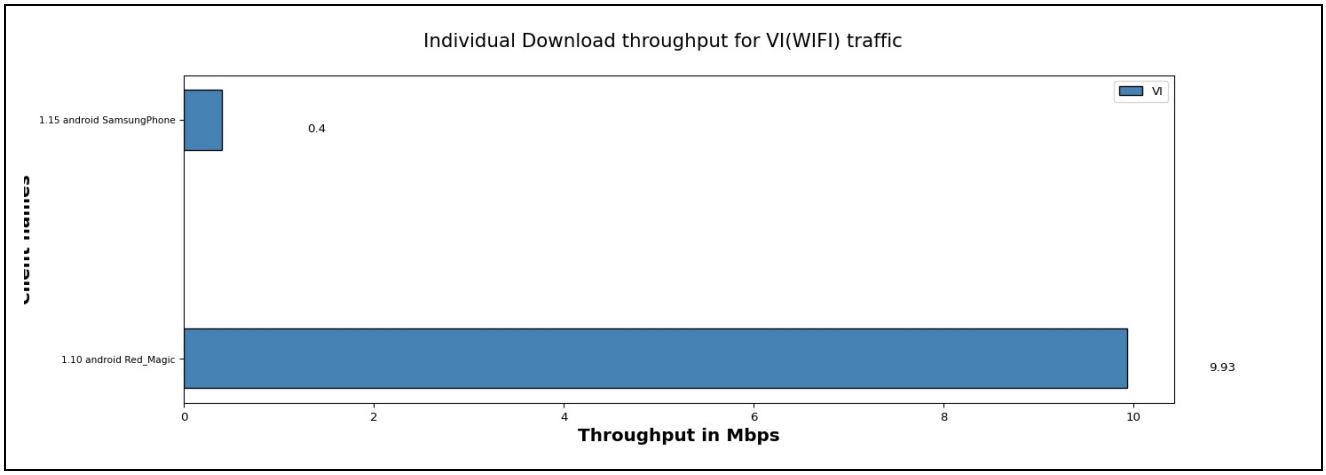


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00

1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.03 Mbps	0.0	70.91

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

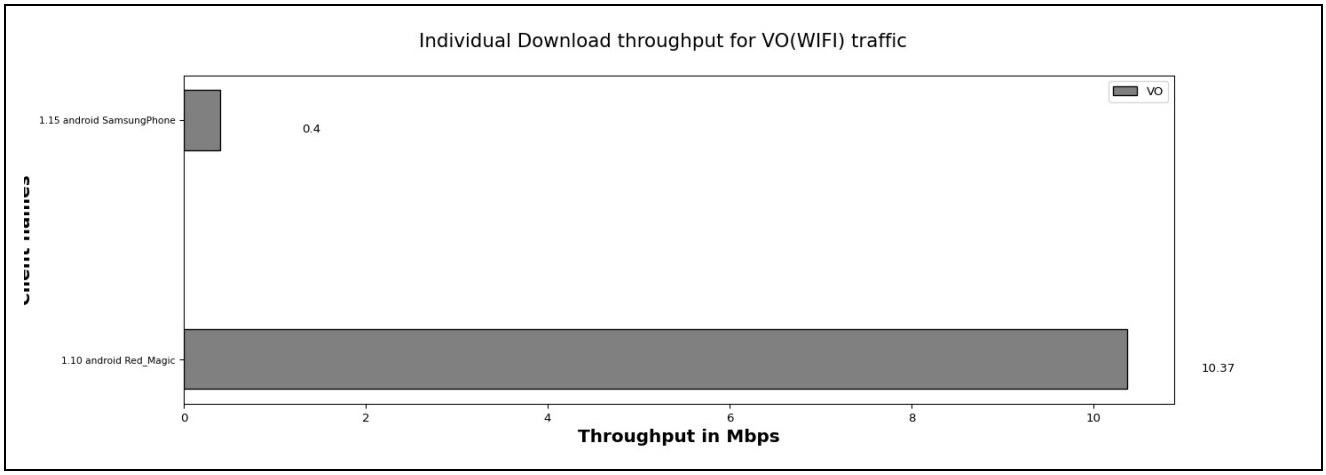
The below graph represents individual throughput for 2 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.43 Mbps	0.0	69.48

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

The below graph represents individual throughput for 2 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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.52 Mbps	0.0	45.49

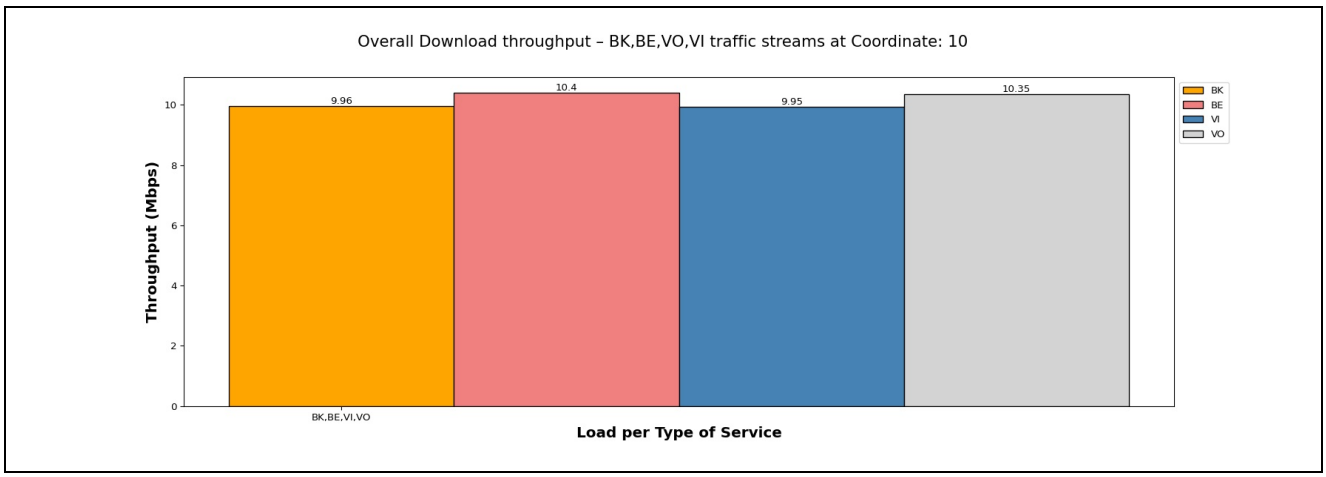
Coordinate: 10

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

No of Stations	Throughput for Load 10.0 Mbps-download
2	BK : 9.96, BE : 10.4, VI: 9.95, VO: 10.35

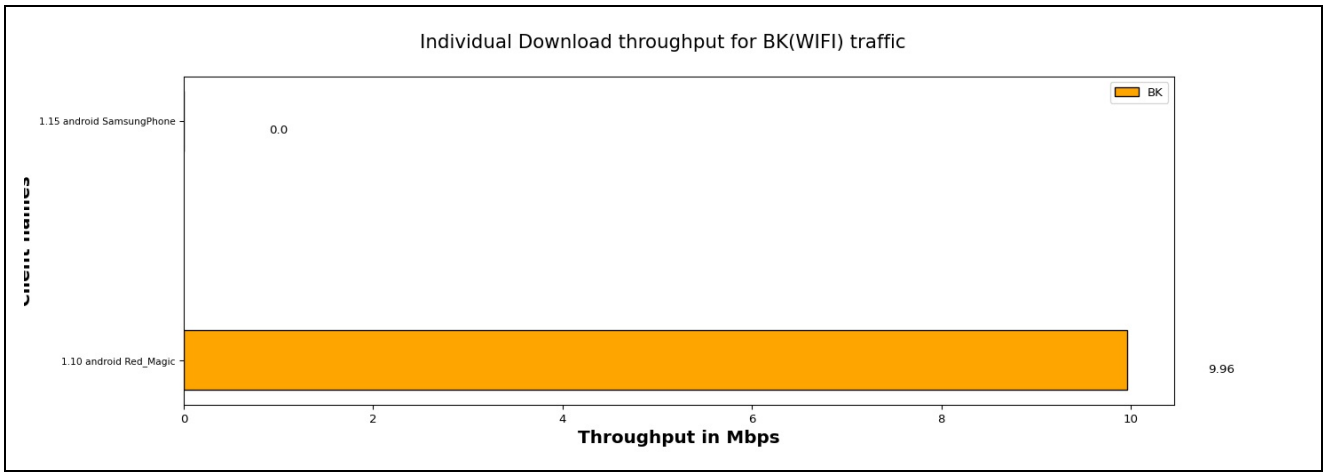
Overall Download throughput for 2 clients with different TOS.

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).

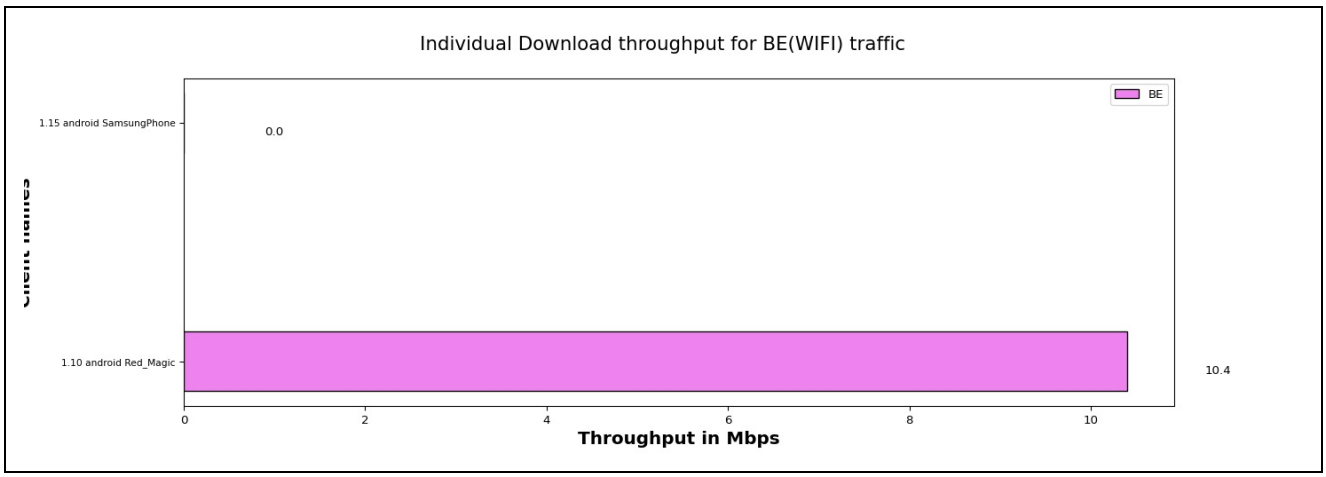
The below graph represents individual throughput for 2 clients running BK (WiFi) traffic. X- axis shows "Throughput in Mbps" and Y-axis shows "number of clients".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Background	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.05 Mbps	0.0	74.82

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

The below graph represents individual throughput for 2 clients running BE (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".

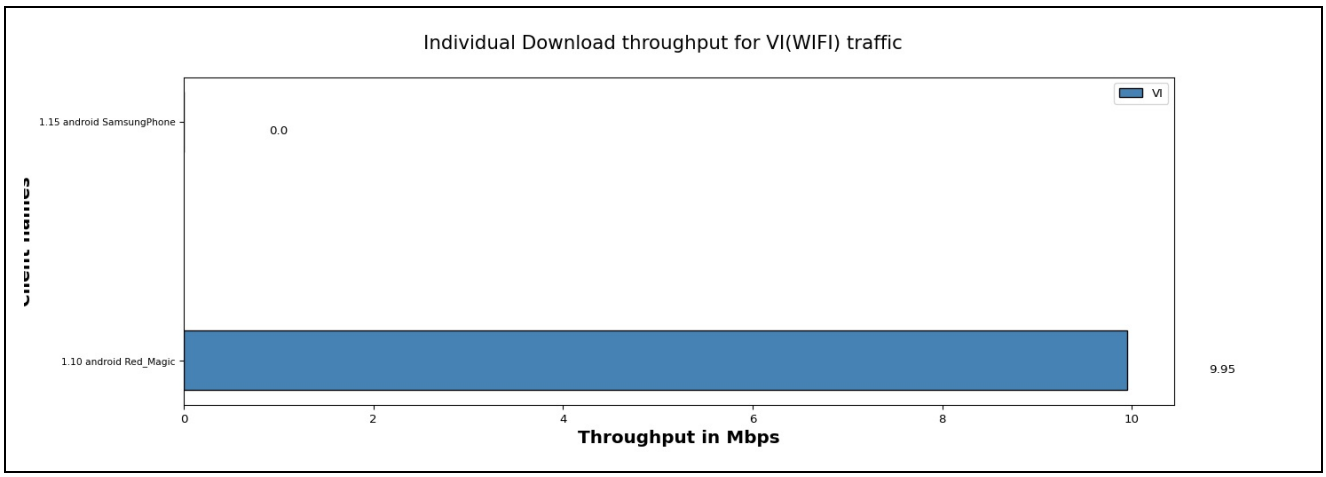


Client Name	MAC	SSID	Type of traffic	Offered upload rate	Offered download rate	Observed average upload rate	Observed average download rate	Observed Upload Drop (%)	Observed Download Drop (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.00

1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Besteffort	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.18 Mbps	0.0	70.24

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

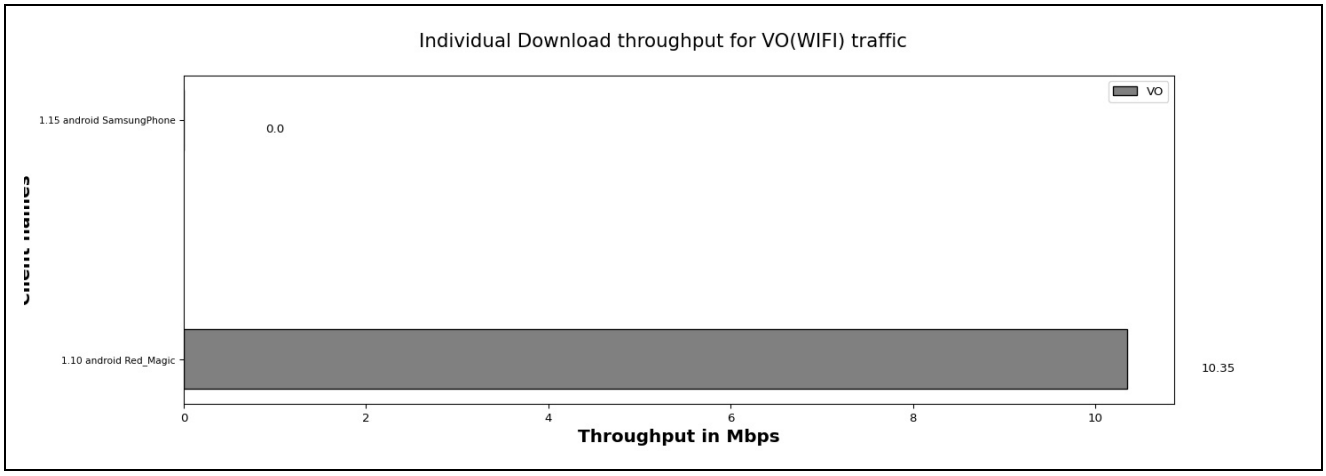
The below graph represents individual throughput for 2 clients running VI (WiFi) traffic. X- axis shows "number of clients" and Y-axis shows "Throughput in Mbps".



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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.0 Mbps	0.0	0.02
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Video	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.03 Mbps	0.0	77.54

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

The below graph represents individual throughput for 2 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 (%)
1.10 android Red_Magic	dc:f0:90:ed:e0:53	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	10.01 Mbps	0.0	0.00
1.15 android SamsungPhone	6e:89:0e:84:2e:f0	Roaming	Voice	0.0 Mbps	10.0 Mbps	0.0 Mbps	0.29 Mbps	0.0	62.76

Information		
	contact	support@candelatech.com