Iperf-3 Test

2021-10-01-10:04:54

Objective

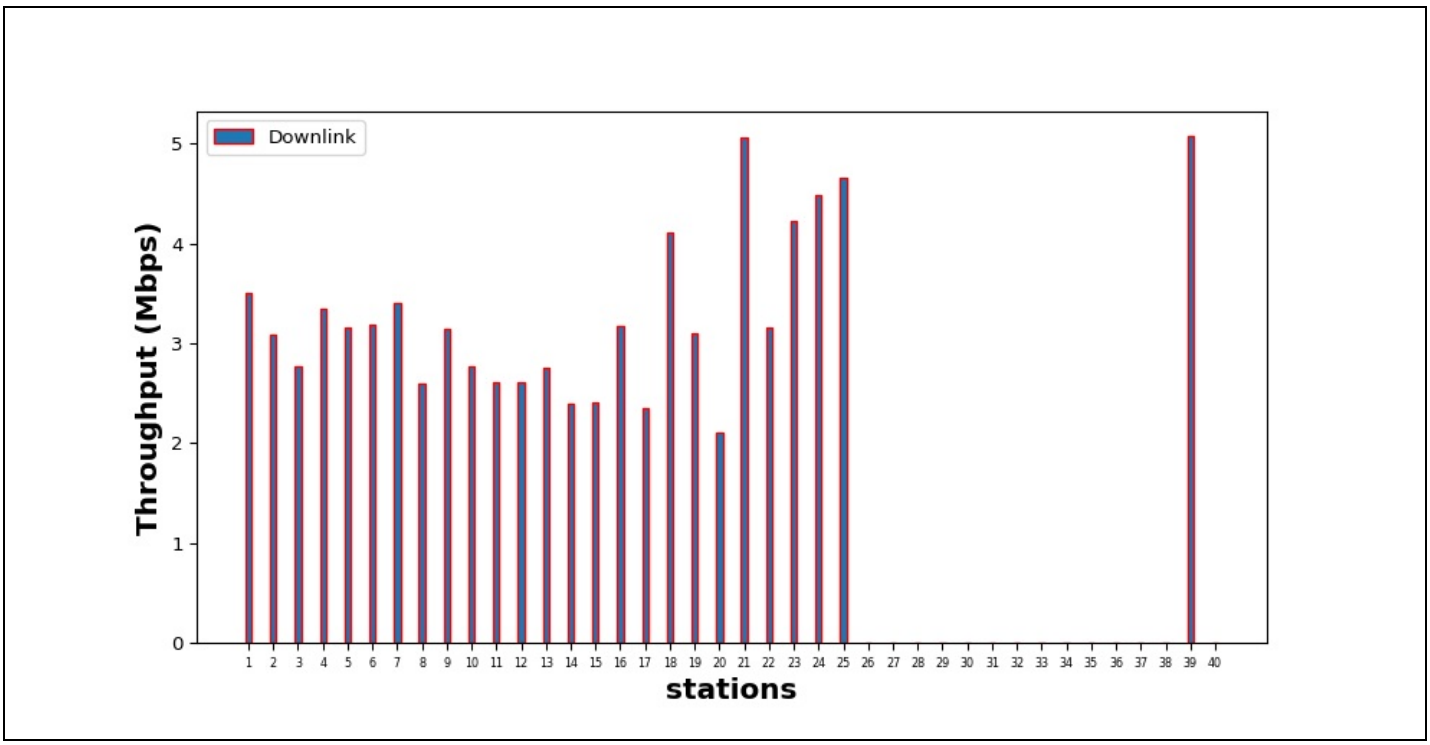
Verify that number of clients connected on different/same radio can meet the intended throughput while running the traffic

Test Setup Information

Device Under Test	SSID	IP	user	Number of Stations
	Student_scale	192.168.215.49	admin	40

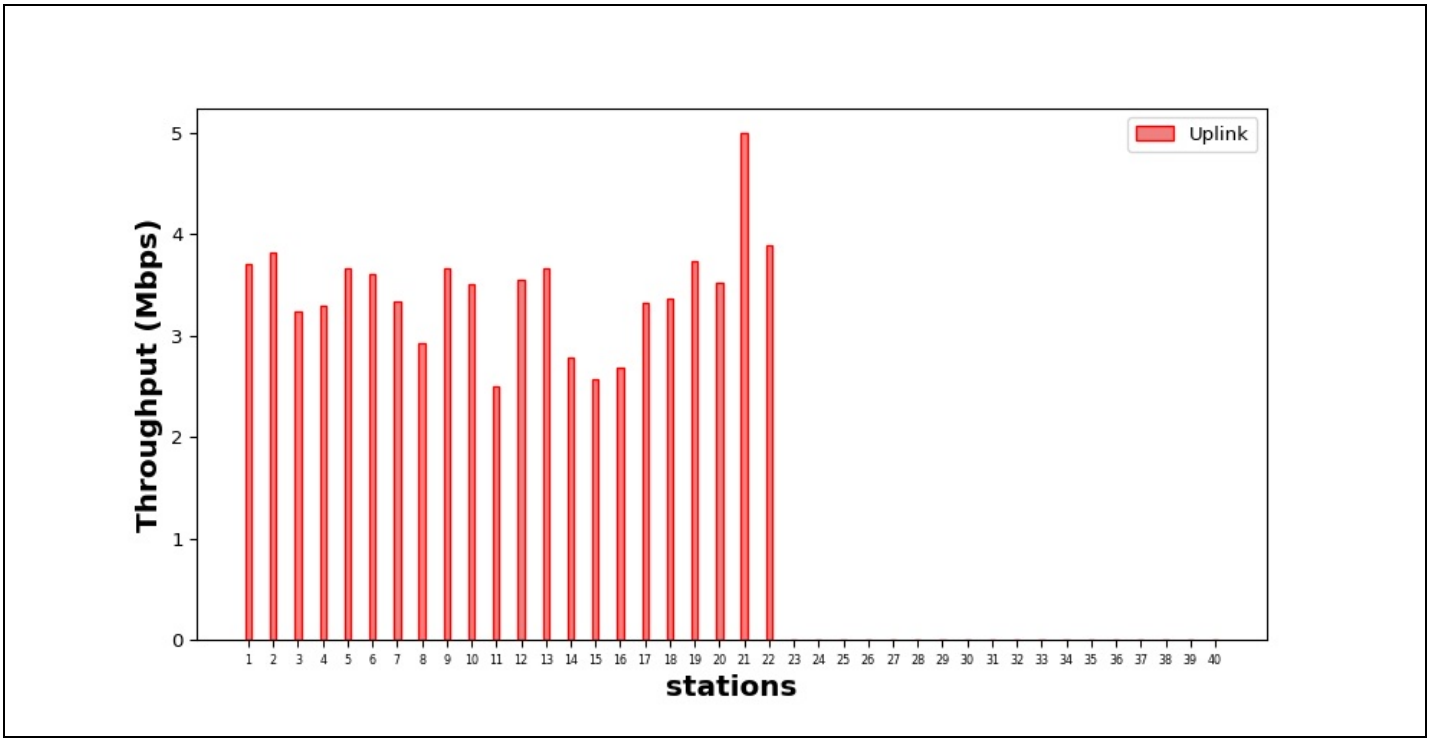
Download-Single Radio (2.4 GHz)

The scenerio gives the result of downlink test for 40 clients connected on 2.4 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



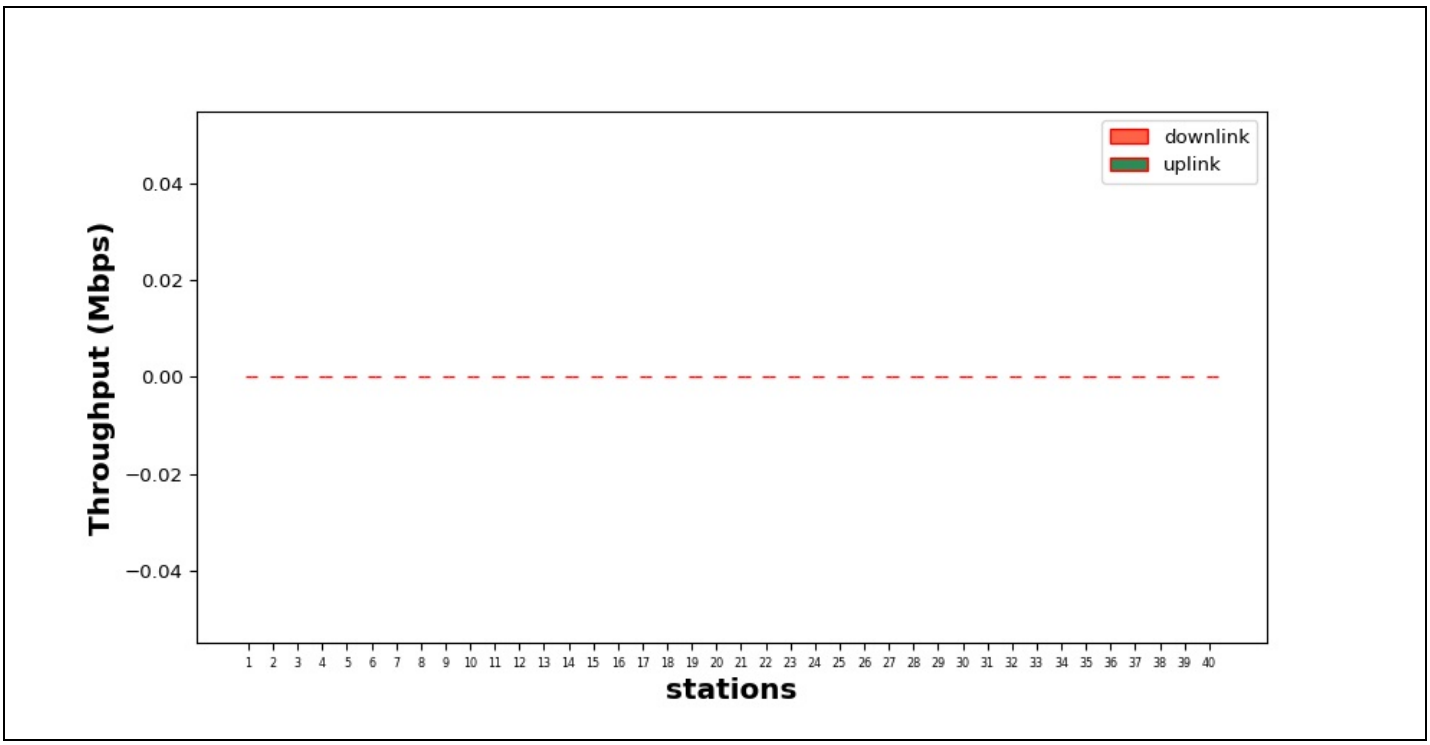
Upload-Single Radio (2.4 GHz)

The scenerio gives the result of Uplink test for 40 clients connected on 2.4 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



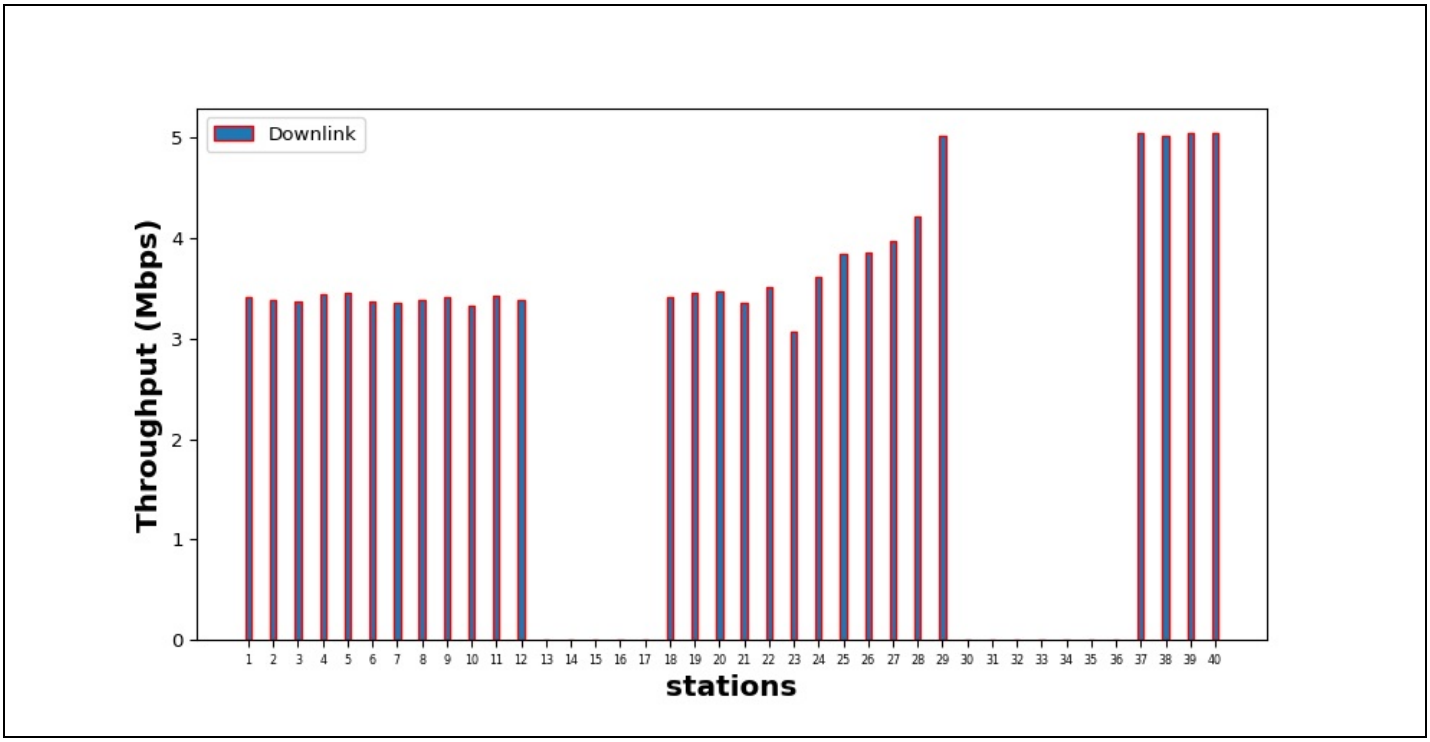
L3-BiDirectional-Single Radio(2.4 GHz)

The scenerio gives the result of BiDirectional test for 40 clients connected on 2.4 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



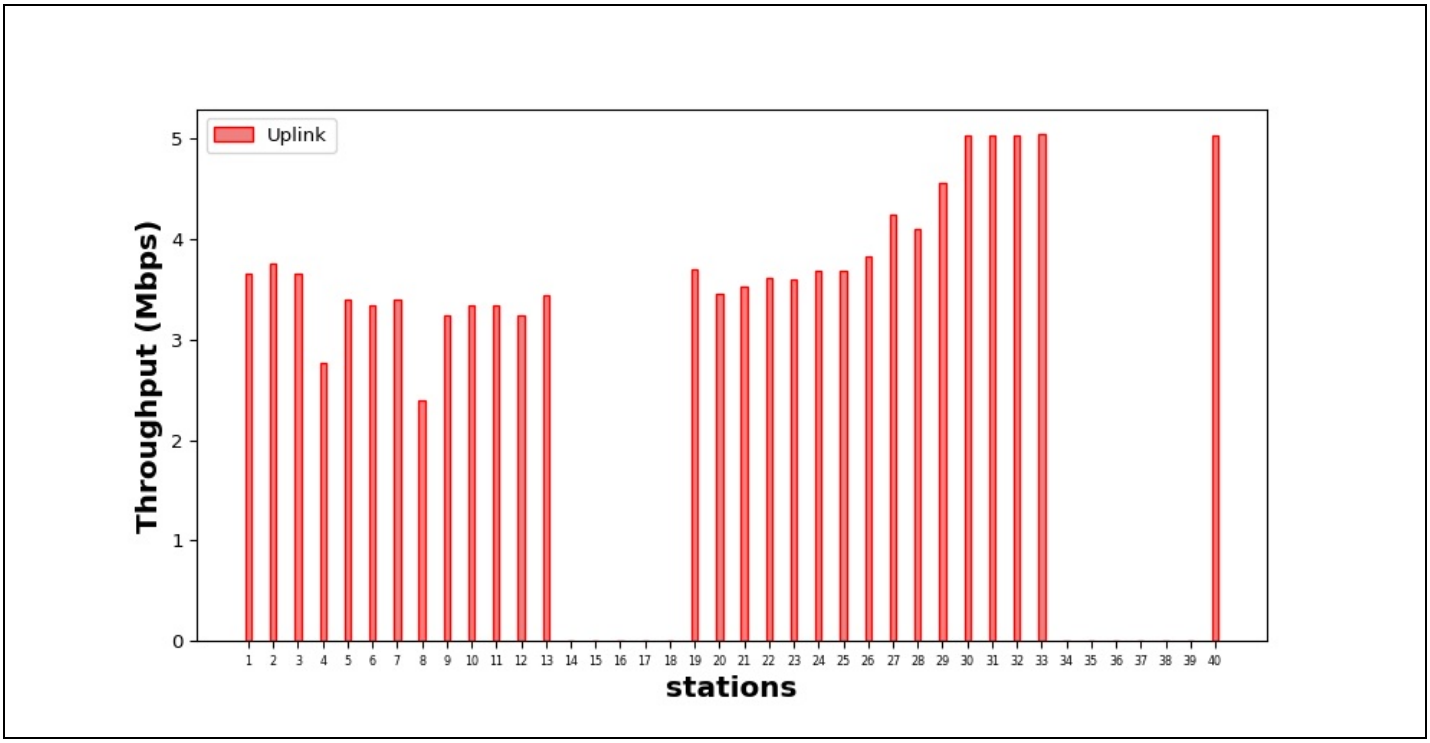
Download-Single Radio (5 GHz)

The scenerio gives the result of downlink test for 40 clients connected on 5 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



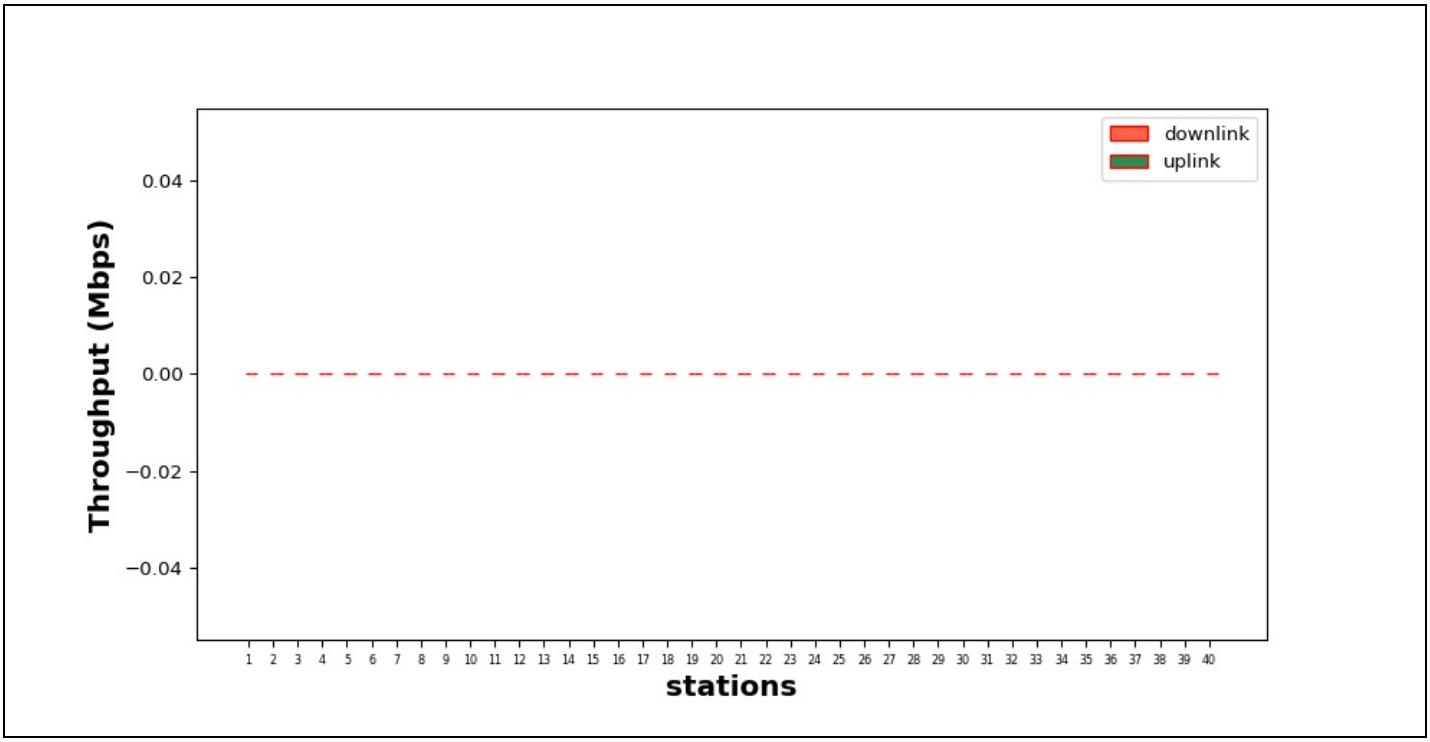
Upload-Single Radio (5 GHz)

The scenerio gives the result of Uplink test for 40 clients connected on 5 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



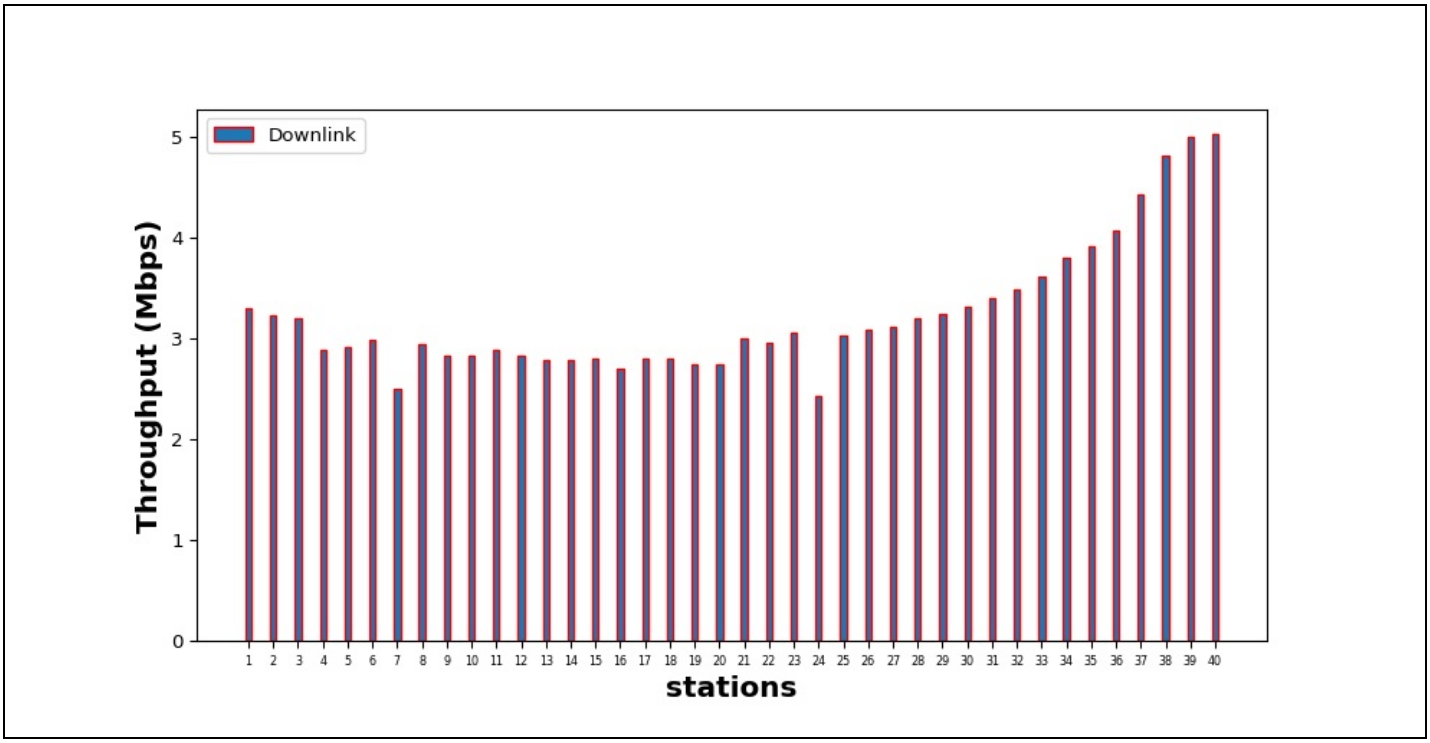
L3-BiDirectional-Single Radio(5 GHz)

The scenerio gives the result of BiDirectional test for 40 clients connected on 5 GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



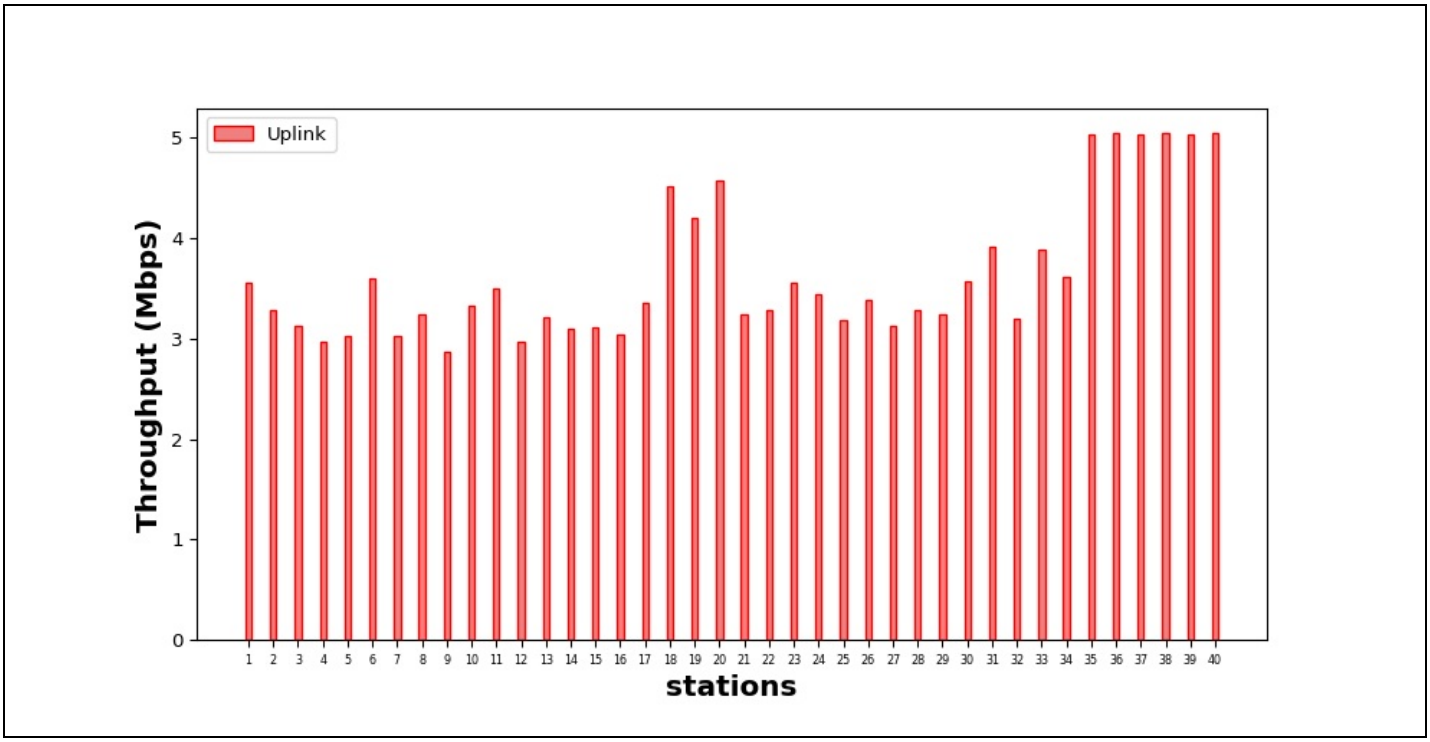
Download-Single Radio (both GHz)

The scenerio gives the result of downlink test for 40 clients connected on both GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



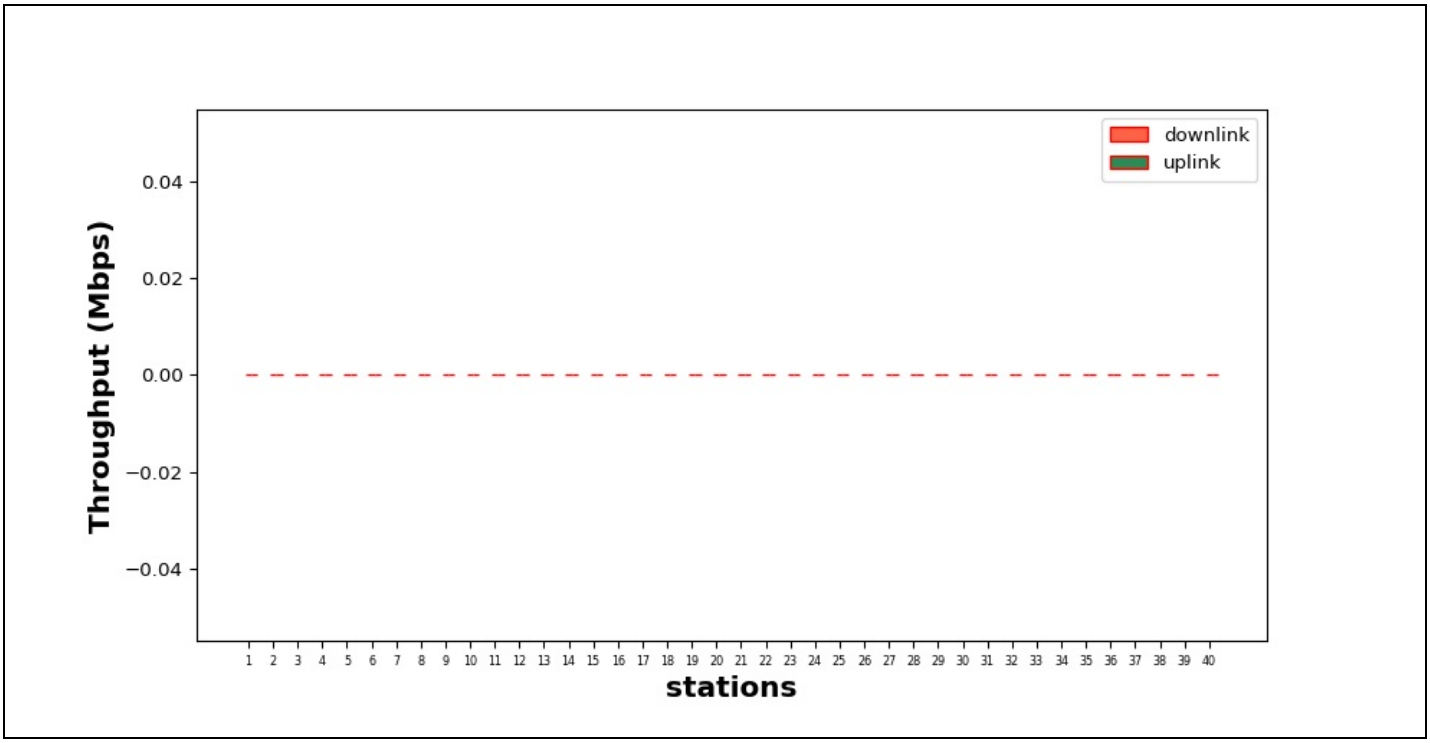
Upload-Single Radio (both GHz)

The scenerio gives the result of Uplink test for 40 clients connected on both GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



L3-BiDirectional-Single Radio(both GHz)

The scenerio gives the result of BiDirectional test for 40 clients connected on both GHz.X-axis shows the station name and y-axis shows the throughput in Mbps



Total Test Duration : 0:32:50

Summary Table

Sr No.	Test Scenario	Radio	Traffic	No. of Client	Intended Throughput/Client	Aggregate Throughput(Min)/Client	Aggregate Throughput(Max)/Client	Overall Thrughput	Aggregate Throughput(Avg)
1	Iperf3-download-Single radio	2.4 GHz	Download	40(2.4 GHz)	5.0 Mbps	0.0	5.0	75.32	1.88
2	Iperf3-Upload-Single radio	2.4 GHz	Upload	40(2.4 GHz)	5.0 Mbps	0.0	5.07	85.26	2.13
3	L3-BiDirectional-Single radio	2.4 GHz	Download,Upload	40(2.4 GHz)	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps
	Iperf3-								

4	download-Single radio	5 GHz	Download	40(5 GHz)	5.0 Mbps	0.0	5.05	110.21	2.76
5	Iperf3-Upload-Single radio	5 GHz	Upload	40(5 GHz)	5.0 Mbps	0.0	5.04	105.66	2.64
6	L3-BiDirectional-Single radio	5 GHz	Download,Upload	40(5 GHz)	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps
7	Iperf3-download-dual radio	2.4 Ghz +5 GHz	Download	20.0(2.4 GHz)+20.0(5 GHz)	5.0 Mbps	2.87	5.05	145.87	3.65
8	Iperf3-Upload-dual radio	2.4 Ghz +5 GHz	Upload	20.0(2.4 GHz)+20.0(5 GHz)	5.0 Mbps	2.43	5.03	129.64	3.24
9	L3-BiDirectional-dual radio	2.4 Ghz +5 GHz	Download,Upload	20.0(2.4 GHz)+20.0(5 GHz)	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps	0.0 Mbps,0.0 Mbps