

Throughput Under Channel Load

2021-09-02-04-06-28



Objective

This test is designed to measure the throughput of 40 clients connected on 5GHz radio when the channel was already utilized with different percentage

Test Setup Information

Device Under Test	AP Name	root
	SSID	load_scale
	No.of stations	40
	Vap channel	40
	Utilization	20
	Threshold	80
	Total Test Duration	0:13:52

Min, Max, Avg Throughput

The below table gives the information about Min, Max, and Avg throughput for the clients when channel utilized with 20%

Channel Utilization (%)	No.of.clients	Intended Throughput(Mbps)	Achieved Upload Throughput(Mbps)	Achieved Download Throughput(Mbps)
20%	40	upload: 1.0 download: 2.5	Min: 0.95 Max: 1.0 Avg: 0.99 Total: 39.46	Min: 1.44 Max: 2.13 Avg: 2.03 Total: 81.40

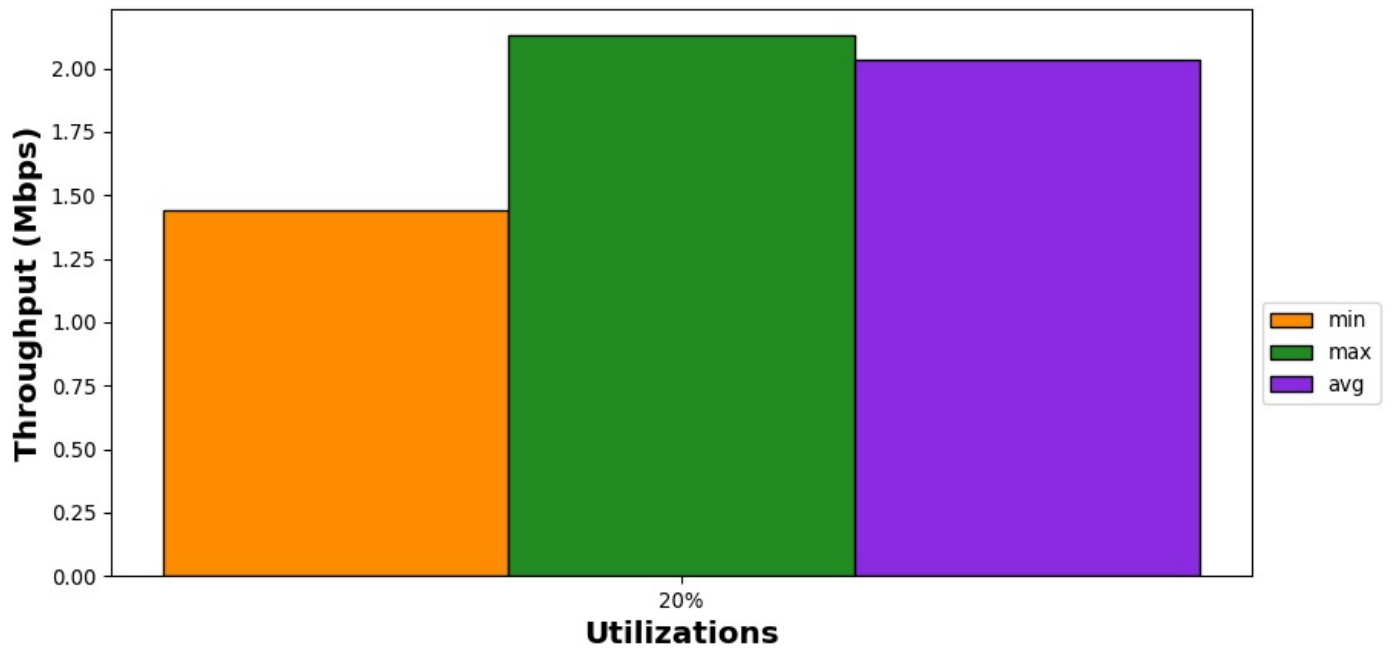
Pass/Fail Criteria

This table briefs about Pass/Fail criteria for 20% channel utilization. If all the stations are able to run traffic and the overall throughput should meet the given threshold then the test is considered to be PASS. The test fails if the overall throughput is below the threshold value also if any one of the station is not able to run the layer-3 traffic.

Channel Utilization (%)	Upload	Download
20%	PASS	PASS

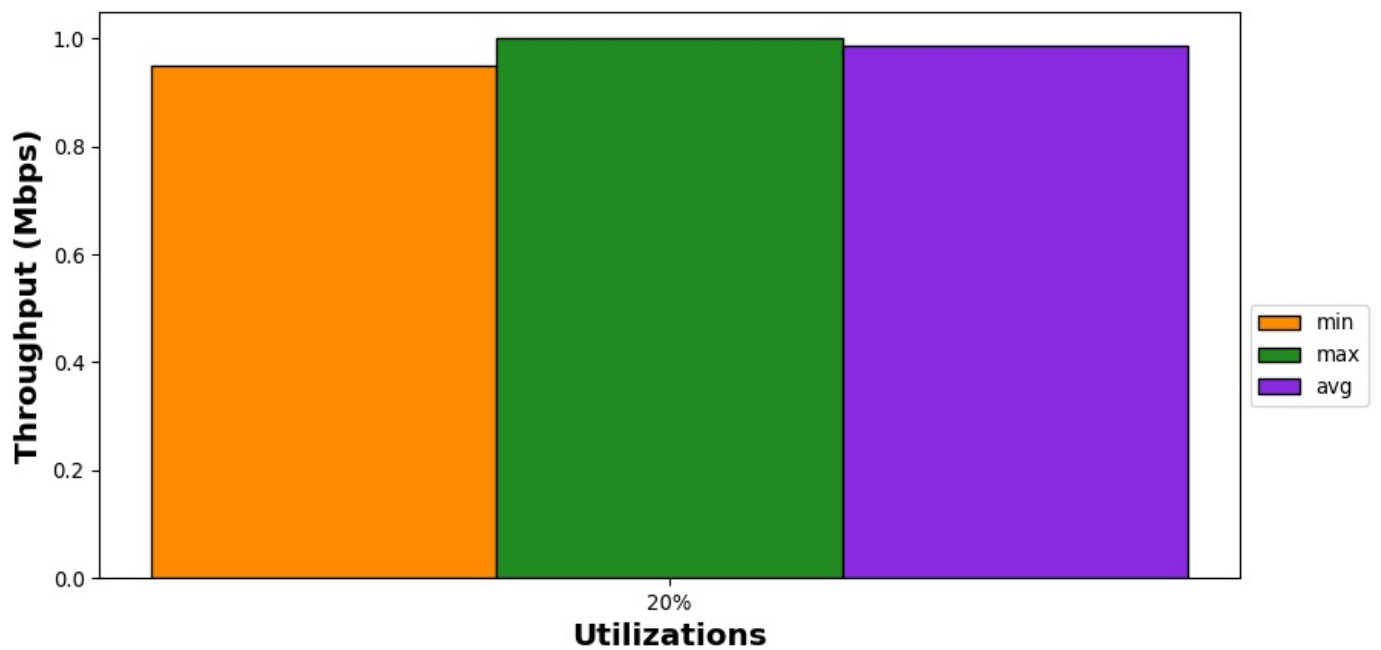
Download Throughput for all channel utilizations

This graph represents the minimum, maximum and average throughput of stations when channel was utilized with 20% for download traffic



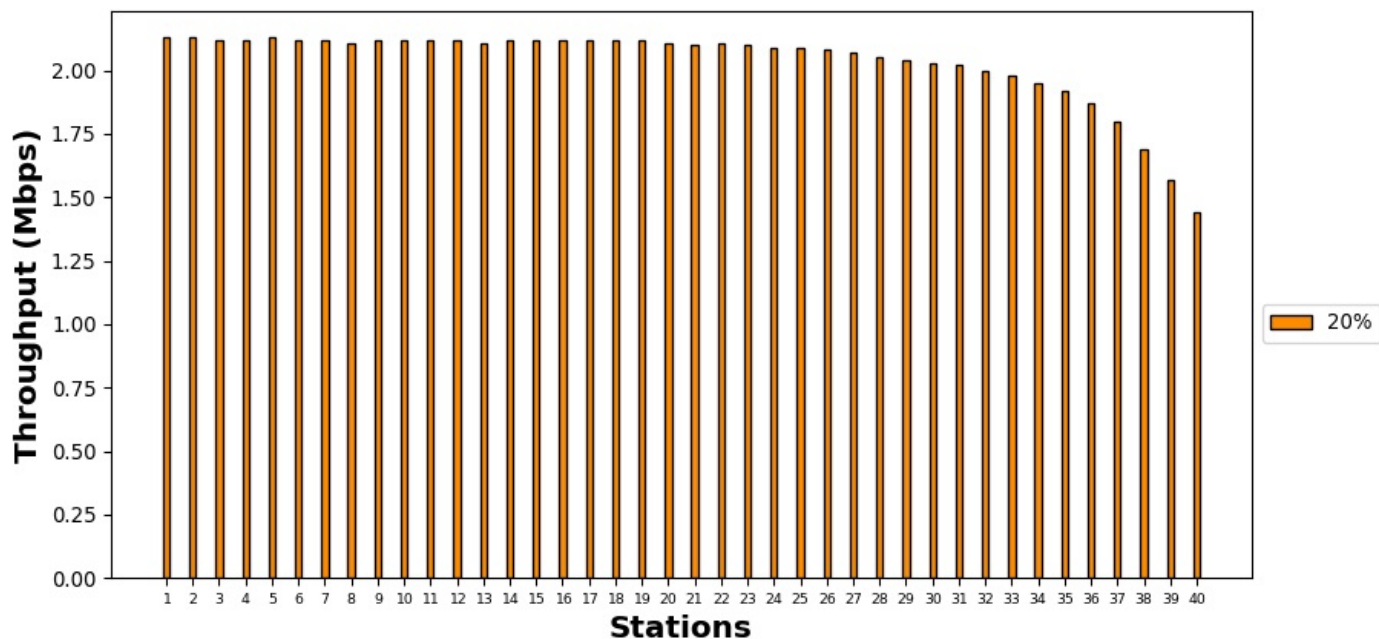
Upload Throughput for all channel utilization

This graph represents the minimum, maximum and average throughput of stations when channel was utilized with 20% for upload traffic



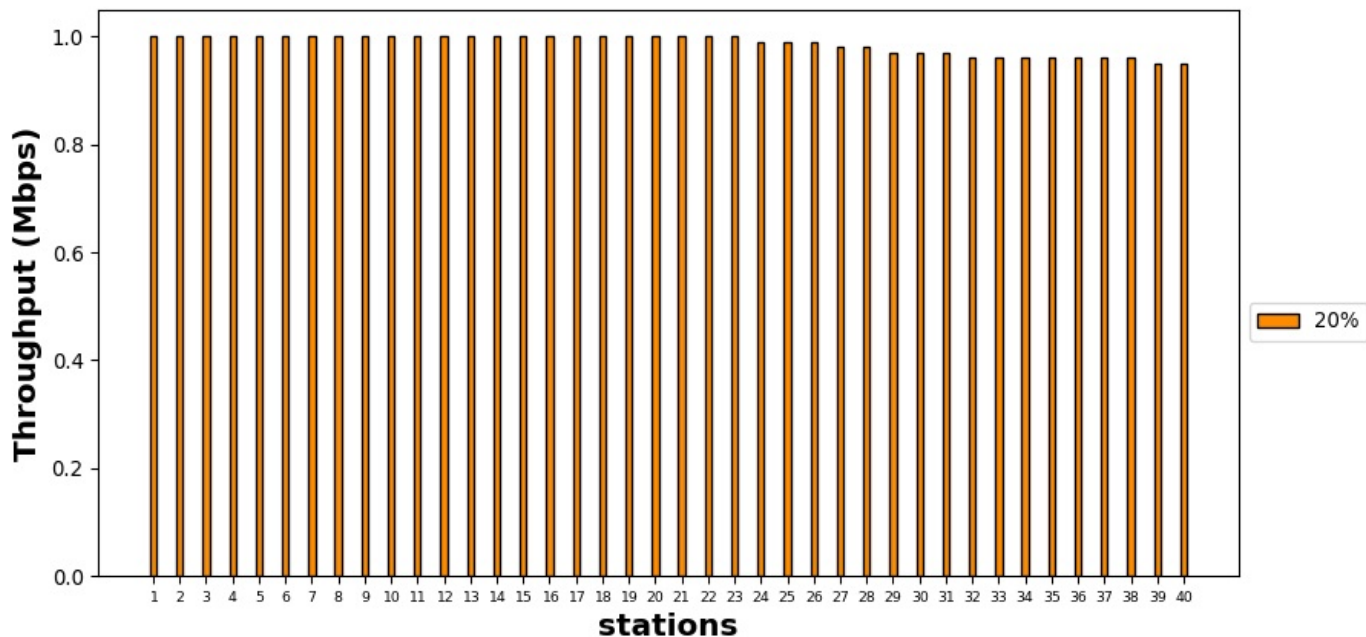
Individual download throughput - CH20%

The graph shows the individual throughput for all the connected stations on 5GHz radio when channel was utilized with 20% in download traffic



Individual upload throughput - CH20%

The graph shows the individual throughput for all the connected stations on 5GHz radio when channel was utilized with 20% in upload traffic



Input Setup Information

Information	Contact	support@candelatech.com
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