

WiFi Capacity Test



2022-08-05-13-27-30

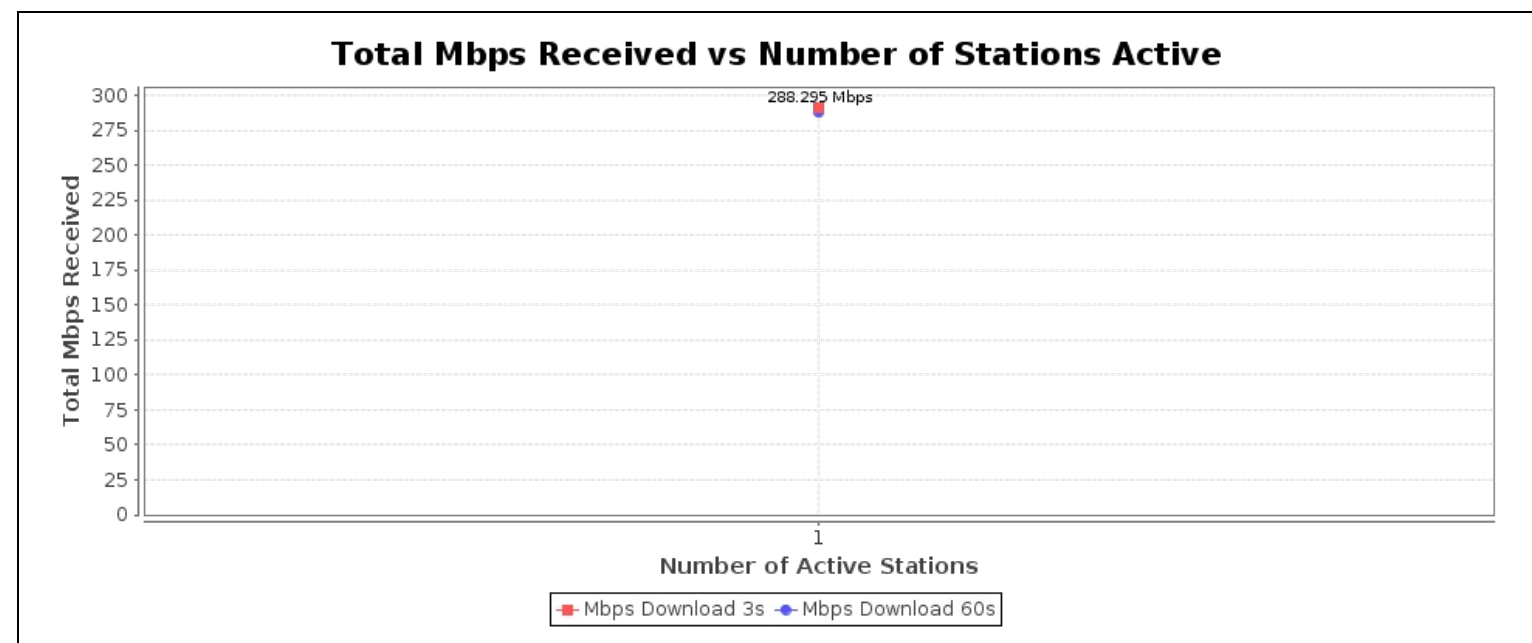
Objective

The Candela WiFi Capacity test is designed to measure performance of an Access Point when handling different amounts of WiFi Stations. The test allows the user to increase the number of stations in user defined steps for each test iteration and measure the per station and the overall throughput for each trial. Along with throughput other measurements made are client connection times, Fairness, % packet loss, DHCP times and more. The expected behavior is for the AP to be able to handle several stations (within the limitations of the AP specs) and make sure all stations get a fair amount of airtime both in the upstream and downstream. An AP that scales well will not show a significant over-all throughput decrease as more stations are added.

| | | |
|-------------------|------------------|----------|
| Traffic Generator | download-traffic | 1Gbps |
| | batch-size | 1 |
| | upload-rate | 0 |
| | protocol | TCP-IPV4 |
| | test-duration | 60 Sec |

| | | |
|-------------------|--------------|------------------------|
| Device Under Test | ssid-name | client_connectivity_al |
| | security | wpa2 |
| | security-key | something |
| | band | fiveg |
| | channel | 36 |

| | | |
|-----------|---------------------|------------|
| PASS/FAIL | Result | PASS |
| | expected-throughput | > 280 |
| | actual-throughput | 288.127652 |



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|-------------|---------|-------------------------|
| Information | contact | support@candelatech.com |
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