# AP-Auto

AP Automated Test Plan

Wed Jun 23 06:06:32 PDT 2021

| Test Setup Information | |
|---|---|
| Device Under Test | ext-03-03 ssid_wpa2p_5g ext-03-03 ssid_wpa2p_2g |
| Estimated Run Time | 4 m |
| Actual Run Time | 6.784 m |

## Objective

The AP-Auto WiFi Performance test plan automates testing of one or more APs with flexibility to select which tests are to be run.

### Summary Results

| Test | Result | Candela Score | Elapsed | Info |
|---|---|---|---|---|
| Basic Client Connectivity | Skipped | 0 | 0 | |
| Throughput vs Pkt Size | Skipped | 0 | 0 | |
| Multi Band Performance | 2.4Ghz FAIL<br>5Ghz FAIL<br>Dual-Band PASS | 0 | 6.154 m | |
| Capacity | Skipped | 0 | 0 | |
| Stability | Skipped | 0 | 0 | |
| Multi-Station Throughput vs Pkt Size | Skipped | 0 | 0 | |
| Band-Steering | Skipped | 0 | 0 | |
| Long-Term | Skipped | 0 | 0 | |

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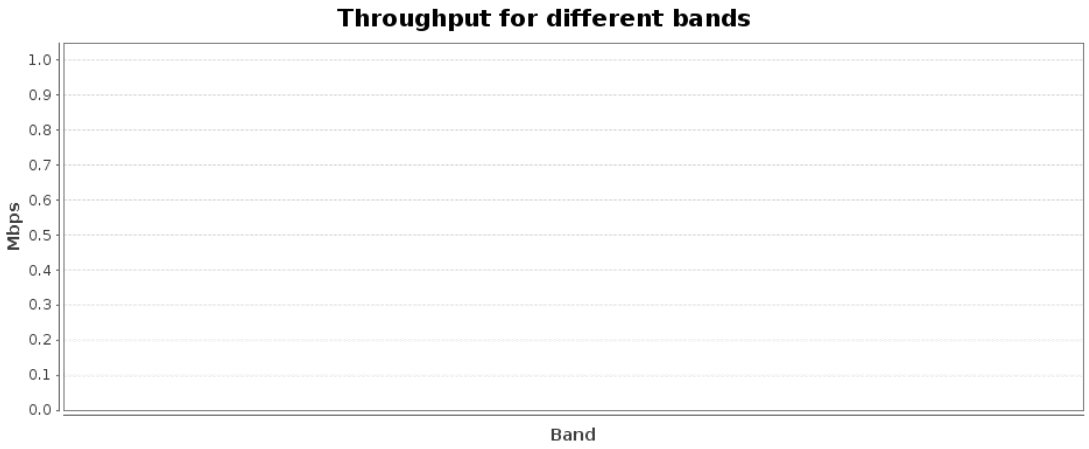
## Multi Band Performance

### Summary

The Multi Band Performance test intends to verify that the Wi-Fi AP throughput with multiple bands active with a single station on each band. The configured speed will be 20% higher than the passing value for MTU sized frames in the throughpu test. If the throughput test was skipped, then fixed values will be used.

A test is considered passed if the multi-band concurrent throughput is at least 90% of the sum of the individual single-band throughput tests. The score is the percentage of the throughput vs that 90% cut-off.

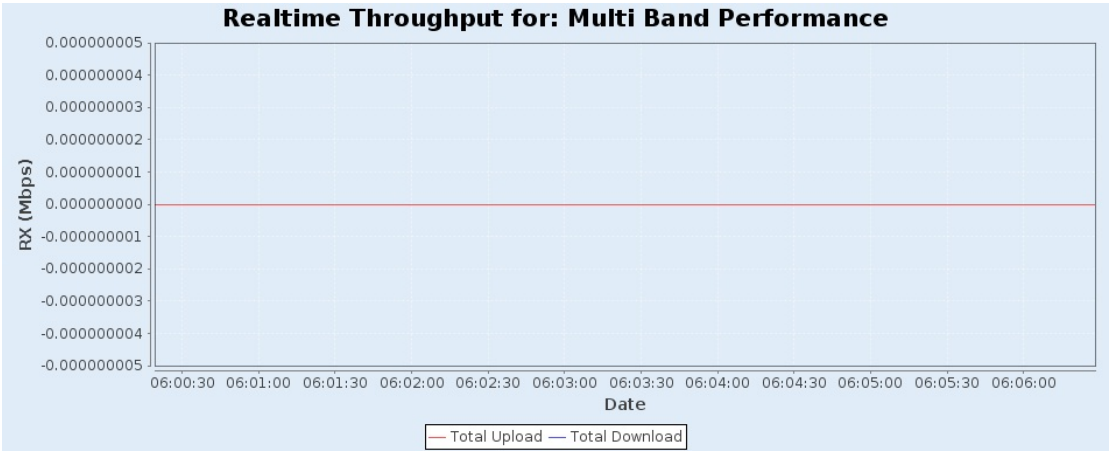
Throughput for different bands.




## Multi Band Performance Results

| Type | Result | Notes |
|---|---|---|
| Config/DUT Error | FAIL | ERROR: Station: 1.1.8 wlan0 on radio: 1.1.3 wiphy0 did not connect within 240 seconds. |
| Config/DUT Error | FAIL | ERROR: Station: 1.1.9 wlan1 on radio: 1.1.4 wiphy1 did not connect within 240 seconds. |
| Configuration-Error | FAIL | Multi Band Performance: ERROR: could not connect all stations. |

Realtime Throughput for: Multi Band Performance




Key Performance Indicators CSV

| Test configuration and LANforge software version | |
|---|---|
| Auto-Helper | true |
| Skip 2.4Ghz Tests | false |
| Skip 5Ghz Tests | false |
| Skip 5Gzh-B Tests | true |
| Skip Dual-Band Tests | false |
| Skip Tri-Band Tests | true |
| Use BSSID | true |
| Set Radio TxPower to Default | false |
| Loop Iterations: | 1 |
| 2.4Ghz Station Count: | 1 |
| 5Ghz Station Count: | 1 |
| Dual-Band Station Count: | 2 |
| 5Ghz-B Station Count: | 64 |
| | |

| | |
|---|---|
| Tri-Band Station Count: | 64 |
| Duration-20 | 20 |
| Hunt Retries: | 1 |
| Maximum Hunt Iterations: | 100 |
| Multi-Conn | 1 |
| ToS | 0 |
| Upstream Port | 1.1.1 eth1 Firmware: 0. 6-5 Resource: lf0350-ac54 |
| Stability Duration: | 1 h |
| Concurrent Ports to Reset: | 1 |
| Minimum Time between Resets: | 10000 |
| Maximum Time between Resets: | 60000 |
| Long-Term Station Count: | 2 |
| VOIP Call Count: | 20 |
| Percent: | 1000000 |
| Open: | 25 |
| PSK: | 60 |
| Enterprise: | 120 |
| Stability stall threshold UDP Upload: | 100000 |
| Stability stall threshold UDP Download: | 100000 |
| Stability stall threshold TCP Upload: | 100000 |
| Stability stall threshold TCP Download: | 100000 |
| Stability stall threshold Video: | 100000 |
| Stability stall threshold VOIP: | 20000 |
| Stability Multicast Min Download Rate: | 100000 |
| Stability Multicast Max Download Rate: | 0 |
| Stability UDP Min Download Rate: | 500000 |
| Stability UDP Max Download Rate: | 0 |
| Stability UDP Min Upload Rate: | 500000 |
| Stability UDP Max Upload Rate: | 0 |
| Stability TCP Min Download Rate: | 500000 |
| Stability TCP Max Download Rate: | 0 |
| Stability TCP Min Upload Rate: | 500000 |
| Stability TCP Max Upload Rate: | 0 |
| Long-Term Duration: | 1 h |
| Long-Term Graph Interval: | 30 |
| Long-Term Download Rate: | 85% |
| Video Emulation Rate: | 700000 |
| Video Buffer Size: | 1000000 |
| Long-Term Upload Rate: | 85% |
| Use Packet Sizes | false |
| Reset Radios | false |
| Use Packet Sizes | false |
| Always expect 5g | false |
| Spatial Streams | AUTO |
| Bandwidth | AUTO |
| Modes | Auto |
| WiFi Radio 0 | 1.1.3 wiphy0 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: lf0350-ac54 |
| WiFi Radio 0 | 1.1.4 wiphy1 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: lf0350-ac54 |
| Pass-Fail Tput Criteria | |
| Show Events | true |

| | |
|---|---|
| Build Date | Thu 27 May 2021 10:50:15 AM PDT |
| Build Version | 5.4.3 |
| Git Version | bebd8463e2b802536d03219096d308128366dcf3 |

CSV Data