AP-Auto

AP Automated Test Plan

Sun Jun 13 23:02:40 PDT 2021

Candela
TECHNOLOGIES

Test Setup Information	
Device Under Test	basic-ext-03-03 ssid_wpa2p_5g basic-ext-03-03 ssid_wpa2p_2g
Estimated Run Time	4 m
Actual Run Time	6.874 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

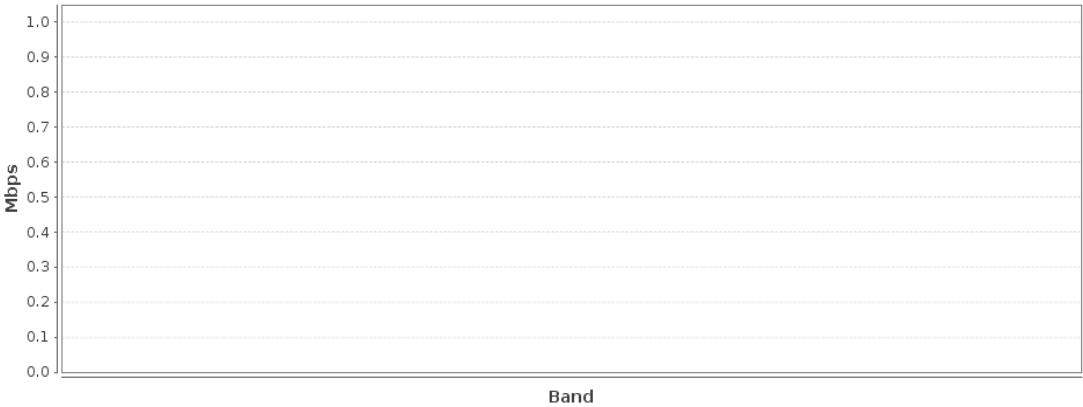| Test	Result	Candela Score	Elapsed	Info
Basic Client Connectivity	Skipped	0	0	
Throughput vs Pkt Size	Skipped	0	0	
Multi Band Performance	2.4Ghz FAIL 5Ghz FAIL Dual-Band PASS	0	6.223 m	
Capacity	Skipped	0	0	
Stability	Skipped	0	0	
Multi-Station Throughput vs Pkt Size	Skipped	0	0	
Band-Steering	Skipped	0	0	
Long-Term	Skipped	0	0	

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.
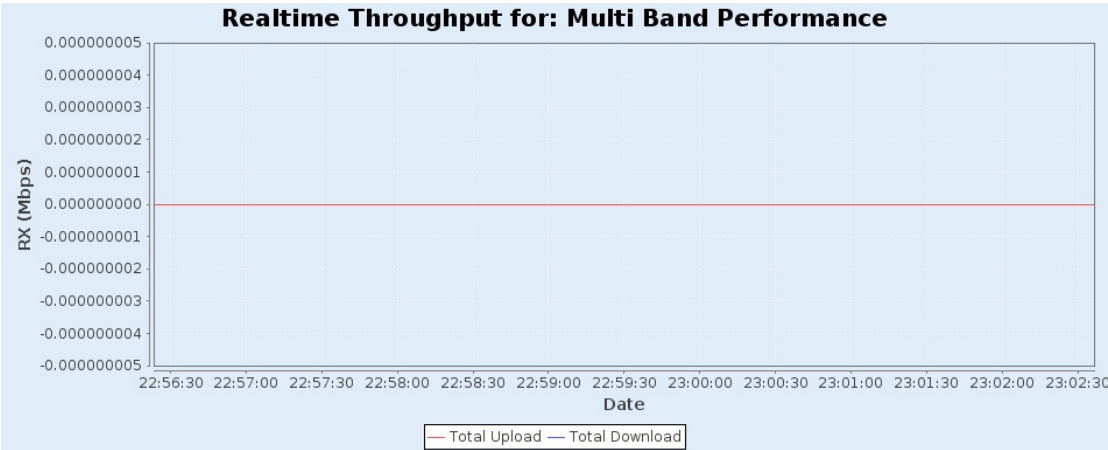
Throughput for different bands.

Throughput for different bands

Multi Band Performance Results

Type	Result	Notes
Config/DUT Error	FAIL	ERROR: Station: 1.1.5 wlan0 on radio: 1.1.3 wiphy0 did not connect within 240 seconds.
Config/DUT Error	FAIL	ERROR: Station: 1.1.7 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: lf0350-9540
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: lf0350-9540
WiFi Radio 0	1.1.4 wiphy1 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: lf0350-9540
Pass-Fail Tput Criteria	
Show Events	true
Build Date	Wed 26 May 2021 11:06:38 AM PDT

Build Version	5.4.3
Git Version	899b50be0d42cdc86f0a6ae44d9bd6aaab43fe0b

CSV Data