

AP-Auto

AP Automated Test Plan



Tue Jun 15 01:23:13 PDT 2021

Test Setup Information	
Device Under Test	basic-ext-03-09 ssid_wpa_5g basic-ext-03-09 ssid_wpa_2g
Estimated Run Time	4 m
Actual Run Time	6.853 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	6.169 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

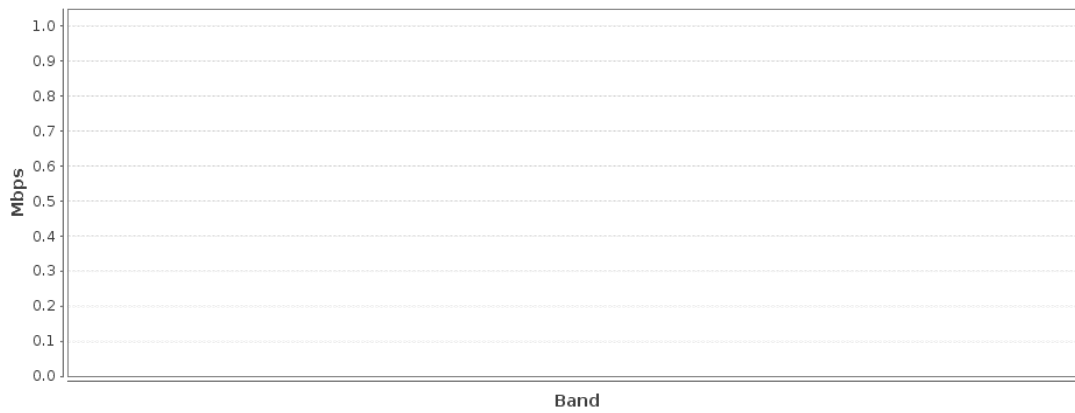
Summary

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.

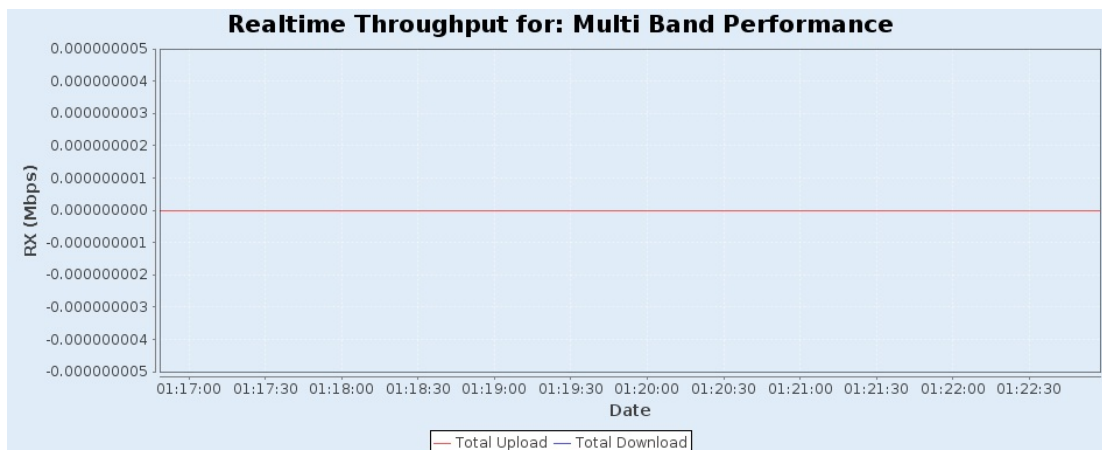
Throughput for different bands



Multi Band Performance Results

Type	Result	Notes
Config/DUT Error	FAIL	ERROR: Station: 1.1.8 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-b074
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-b074
WiFi Radio 0	1.1.4 wiphy1 Firmware: 10.1-ct-8x-__xtH-022-bcdb24ff Resource: lf0350-b074
Pass-Fail Tput Criteria	
Show Events	true
Build Date	Thu 27 May 2021 08:14:17 AM PDT

Build Version	5.4.3
Git Version	f36c9154298b5253022bd11ed4da4fbcdf8d6d0f

[CSV Data](#)

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