

Basic-Connection Test

AP Automated Test Plan

Wed Oct 05 15:42:16 PDT 2022



Test Setup Information	
Device Under Test	TR-398_DUT asus-ax11000-5 f0:2f:74:57:db:b4 (2) TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1)
Estimated Run Time	4 m
Actual Run Time	1.332 m

Summary Results

Test	Result	Candela Score	Elapsed	Info
Basic Client Connectivity	2.4Ghz PASS	100	51.175 s	Max Stations Connected: 5 Total Connected: 5 / 5 (100.0%) Total Connected In Time: 5 / 5 (100.0%) Combinations Tested: 1 / 3

Basic Client Connectivity

Summary

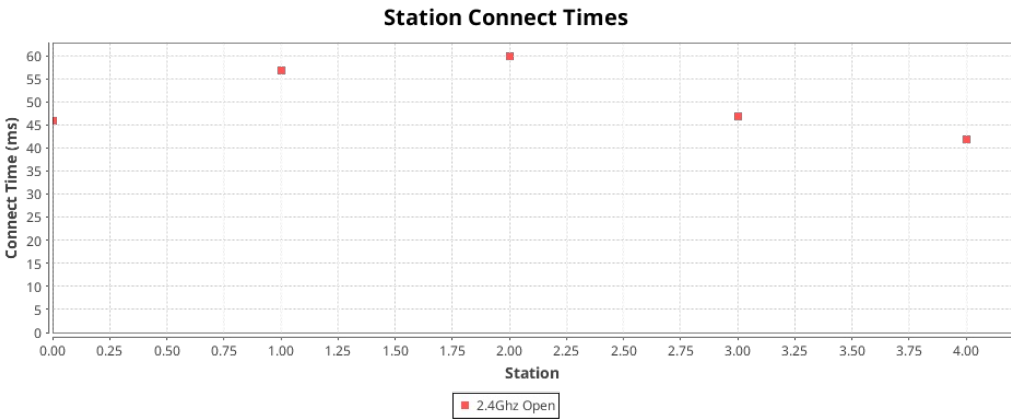
The Maximum Connection test intends to verify that the Wi-Fi AP can support many STAs simultaneously and connect them within a specific time frame. No data traffic is generated during this test. The pass/fail thresholds for connection times are below. The entire test will count as failed if the passing station percentage is below the Percent threshold (100.00%) or if any of the stations failed to connect.

Auth Method	Threshold
Open	25 ms
PSK	60 ms
802.1x Enterprise	120 ms

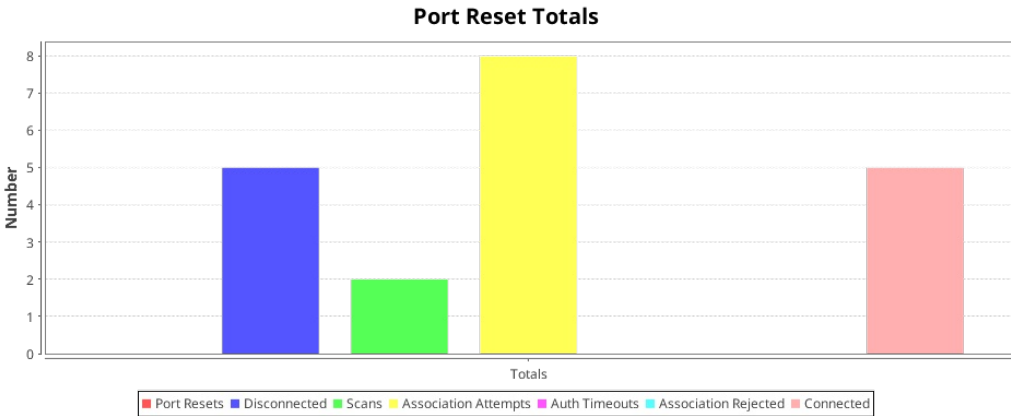
The Candela Score for the Basic Client Connectivity test is based on the percentage of stations that passed the criteria: 75% is based on the percentage of stations that connected, and 25% is based on the percentage that met the association time criteria.

Station connection times for different bands and DUT configurations.

[CSV Data for Station Connect Times](#)



[CSV Data for Port Reset Totals](#)



Basic Client Connectivity Results

Type	Result	Notes
Configuration NOTE	INFO	Configured to skip 5Ghz band test.
Configuration NOTE	INFO	Configured to skip Dual band test.
Configuration NOTE	INFO	Configured to skip 5Ghz-B band test.
Configuration NOTE	INFO	Configured to skip Tri band test.
Configuration NOTE	INFO	Skipping DUT idx: 1: No 2.4Ghz DUT configured.
Configuration NOTE	INFO	Configured to skip 5Ghz band test.
Configuration NOTE	INFO	Configured to skip Dual band test.
Configuration NOTE	INFO	Configured to skip 5Ghz-B band test.
Configuration NOTE	INFO	Configured to skip Tri band test.
Configuration NOTE	INFO	Skipping DUT idx: 2: No 2.4Ghz DUT configured.
Configuration NOTE	INFO	Configured to skip 5Ghz band test.
Configuration NOTE	INFO	Configured to skip Dual band test.
Configuration NOTE	INFO	Configured to skip 5Ghz-B band test.
Configuration NOTE	INFO	Configured to skip Tri band test.

Basic Client Connectivity Results for 2.4Ghz

Type	Result	Notes

DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1) CH 7 1.1.12 sta00500	PASS	PSK DHCP: 19251ms Connect: 46 / 60 ms
DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1) CH 7 1.1.13 sta00501	PASS	PSK DHCP: 19495ms Connect: 57 / 60 ms
DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1) CH 7 1.1.14 sta00502	PASS	PSK DHCP: 19395ms Connect: 60 / 60 ms
DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1) CH 7 1.1.15 sta00503	PASS	PSK DHCP: 19334ms Connect: 47 / 60 ms
DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1) CH 7 1.1.16 sta00504	PASS	PSK DHCP: 19313ms Connect: 42 / 60 ms
2.4Ghz DUT: TR-398_DUT asus-ax11000-2 f0:2f:74:57:db:b0 (1)	Summary	Min: 42 Max: 60 Avg: 50.40ms Passing: 100.00%

[Key Performance Indicators CSV](#)

Test configuration and LANforge software version	
Auto-Helper	true
Skip 2.4Ghz Tests	false
Skip 5Ghz Tests	true
Skip 5Gzh-B Tests	true
Skip Dual-Band Tests	true
Skip Tri-Band Tests	true
Use BSSID	true
Set Radio TxPower to Default	true
Loop Iterations:	1
2.4Ghz Station Count:	5
5Ghz Station Count:	10
Dual-Band Station Count:	10
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	1.1.3 eth3 Firmware: 0x80000aef, 1.1876.0 Resource: ct523c-2101
Stability Duration:	1 m
Concurrent Ports to Reset:	0
Minimum Time between Resets:	10000
Maximum Time between Resets:	60000
Long-Term Station Count:	2
VOIP Call Count:	0
Percent:	1000000
Open:	25

PSK:	60
Enterprise:	120
Stability stall threshold UDP Upload:	0
Stability stall threshold UDP Download:	768000
Stability stall threshold TCP Upload:	0
Stability stall threshold TCP Download:	0
Stability stall threshold Video:	0
Stability stall threshold VOIP:	0
Stability Helper Script:	
Stability Multicast Min Download Rate:	0
Stability Multicast Max Download Rate:	0
Stability UDP Min Download Rate:	1000000000
Stability UDP Max Download Rate:	0
Stability UDP Min Upload Rate:	0
Stability UDP Max Upload Rate:	0
Stability TCP Min Download Rate:	0
Stability TCP Max Download Rate:	0
Stability TCP Min Upload Rate:	0
Stability TCP Max Upload Rate:	0
2.4Ghz Legacy%	0
2.4Ghz N%	0
2.4Ghz AC%	0
2.4Ghz AX/AUTO%	100
5Ghz Legacy%	0
5Ghz N%	0
5Ghz AC%	0
5Ghz AX/AUTO%	100
Long-Term Duration:	1 h
Long-Term Graph Interval:	30
Long-Term Download Rate:	85%
Video Emulation Rate:	500000
Video Buffer Size:	500000
Long-Term Upload Rate:	85%
Use Packet Sizes	false
Reset Radios	false
Use Packet Sizes	true

Always expect 5g	false
Spatial Streams	AUTO
Bandwidth	AUTO
Modes	Auto
WiFi Radio 0	1.1.4 wiphy0 Firmware: 10.4b-ct-9984-xtH-14-f853d52e7a Resource: ct523c-2101
WiFi Radio 0	Resource: ct523c-2101
Show Events	true
Build Date	Mon 26 Sep 2022 02:56:23 PM PDT
Build Version	5.4.5
Git Version	87350330889a86988c8816a52d097f1ebba1d625

[META Information for Basic-Connection Test](#)