

# AP-Auto

## AP Automated Test Plan



Wed Apr 01 14:52:58 PDT 2020

Test Setup Information	
Device Under Test	TR398-DUT NETGEAR68-5G TR398-DUT NETGEAR68
Operator	Ben Greear @ Candela Technologies
Estimated Run Time	10 m
Actual Run Time	7.667 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.

Add your notes below:

Chamber to Chamber test.

## Summary Results

Test	Result	Candela Score	Elapsed	Info
Mix Stability Band: Dual-Band	Skipped	0	0	
Mix Stability Band: Dual-Band	Skipped	0	0	
Mix Stability Band: Dual-Band	Skipped	0	0	
Mix Stability Band: Dual-Band	Skipped	0	0	
Mix Stability Band: Dual-Band	Skipped	0	0	
Reset Stability	Dual-Band PASS	100	7.031 m	Port Resets: 22.0 Station Connections: 22.0 Auth Timeouts: 0.0 Association Rejected: 0.0 Bandwidth Check: 128.0/128.0 STA Connected Check: 64.0/64.0
Reset Stability Band: Dual-Band	Skipped	0	0	

## Reset Stability

### Summary

The Reset Stability test brings up many STAs, runs traffic, and then randomly reset a port every 5 - 20 seconds. to test management and dataplane stability. The test is considered failed if any stations fall below the 100Kbps RX or RX speed at the end of the test, if a station is disconnected at the end of the test, and if there were errors with stations reconnecting during the test.

The Candela Score for the Reset Stability test is calculated as:

- 34%: Number of requested resets compared to the failures: (requested\_resets / (connections + failures))
- 33%: Percentage of Stations sustaining 100Kbps tx and rx bps.
- 33%: Percentage of Stations connected at the end of the run.

Station disconnect stats.

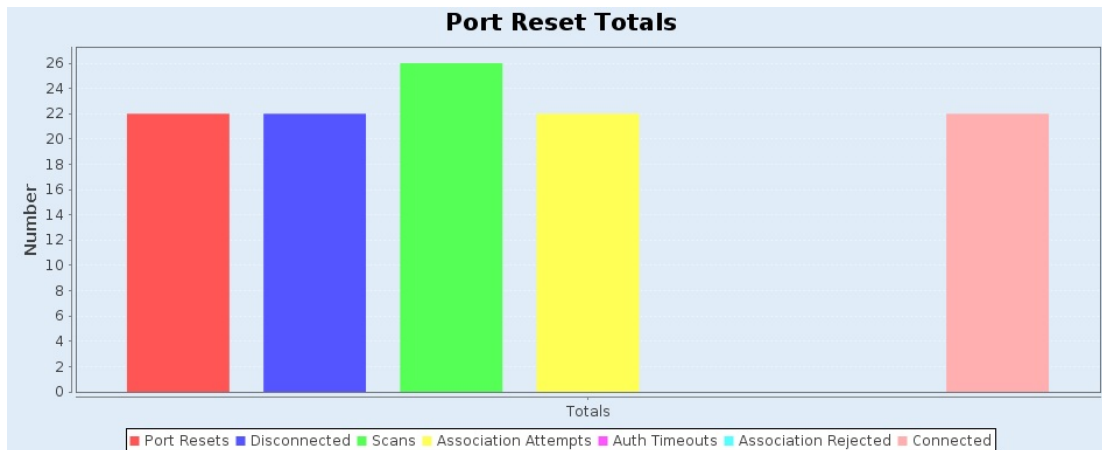
# Reset Stability Results

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

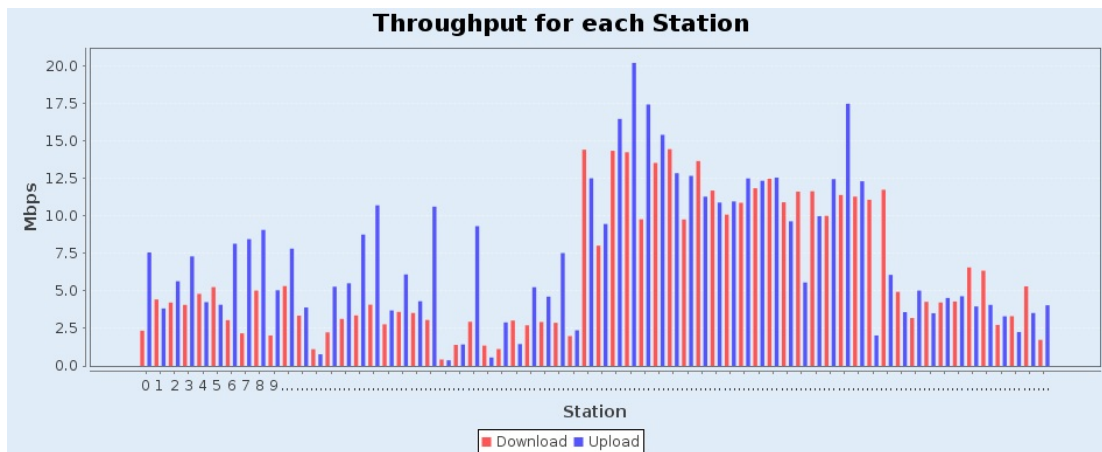
# Reset Stability Results for Dual-Band

Type	Result	Notes
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Port Reset Totals

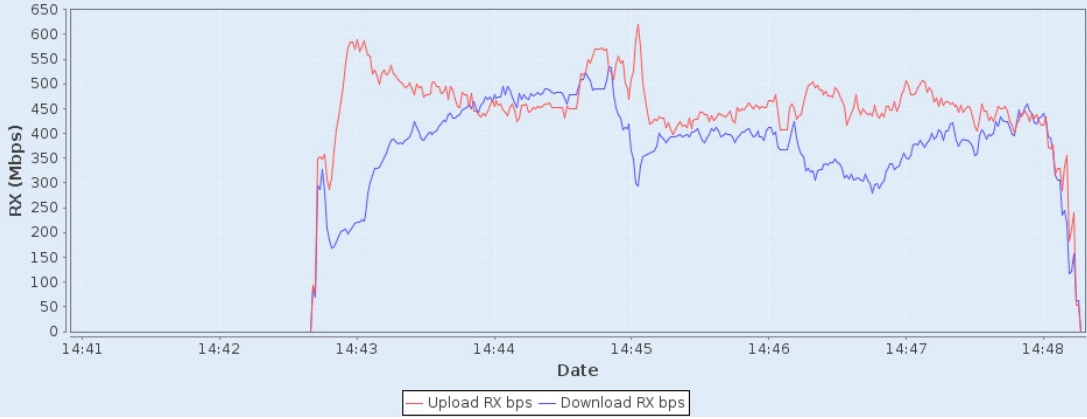


Throughput for each Station



Realtime Throughput for: Reset Stability

### Realtime Throughput for: Reset Stability



#### Test configuration and LANforge software version

Auto-Helper	true
Skip 2.4Ghz Tests	true
Skip 5Ghz Tests	true
Loop Iterations:	1
2.4Ghz Station Count:	32
5Ghz Station Count:	64
Dual-Band Station Count:	64
Duration-20	20
Hunt Retries:	1
Multi-Conn	1
ToS	0
Upstream Port	1.1.1 eth1 Firmware: 0. 6-1 Resource: TR-398
Reset Stability Duration:	5 m
Long-Term Station Count:	2
VOIP Call Count:	10
Stability UDP Download Rate:	40000
Stability UDP Upload Rate:	15000
Stability TCP Download Rate:	1544000
Stability TCP Upload Rate:	0
Long-Term Duration:	5 m
Long-Term Graph Interval:	30
Long-Term Download Rate:	85%
Video Emulation Rate:	700000
Video Buffer Size:	500000
Long-Term Upload Rate:	85%
Use Packet Sizes	false
Reset Radios	true
Spatial Streams	AUTO
Bandwidth	AUTO
Modes	Auto
WiFi Radio 0	1.1.8 wiphy1 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398
WiFi Radio 1	1.1.9 wiphy3 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398
WiFi Radio 2	1.1.10 wiphy5 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
WiFi Radio 0	1.1.3 wiphy0 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398
WiFi Radio 1	1.1.5 wiphy2 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398

WiFi Radio 2	1.1.7 wiphy4 Firmware: 10.4b-ct-9984-xtH-013-b63cea875 Resource: TR-398
WiFi Radio 3	
WiFi Radio 4	
WiFi Radio 5	
WiFi Radio 6	
WiFi Radio 7	
Show Events	true
Build Date	Wed Apr 1 13:26:15 PDT 2020
Build Version	5.4.2
Git Version	8dff991732ce47273699454973cd23b0f9800a70

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