

Port Reset Test

2023-11-22-18:15:31



Objective

The Port Reset Test simulates a scenario where multiple WiFi stations are created and connected to the Access Point (AP) under test. These stations are then randomly disconnected and reconnected at varying intervals, mimicking a busy enterprise or large public venue environment with frequent station arrivals and departures. The primary objective of this test is to thoroughly assess the core Access Point functions' control and management aspects under stress.

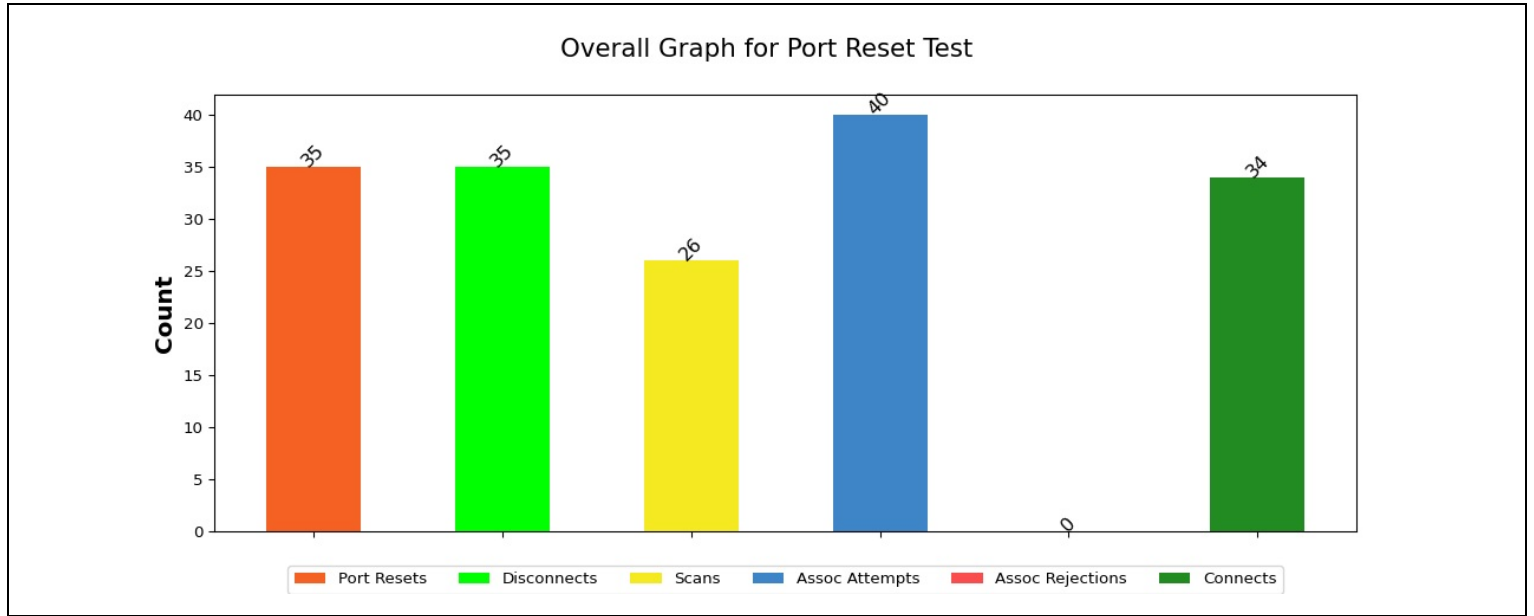
Test Setup Information

Basic Test Information	DUT Name	Test_Dut
	LANforge ip	192.168.209.223
	SSID	Test_DUT
	Total Reset Count	5
	No of Clients	7
	Wait Time	10 sec
	Time interval between resets	5 sec
	Test Duration	0:03:03

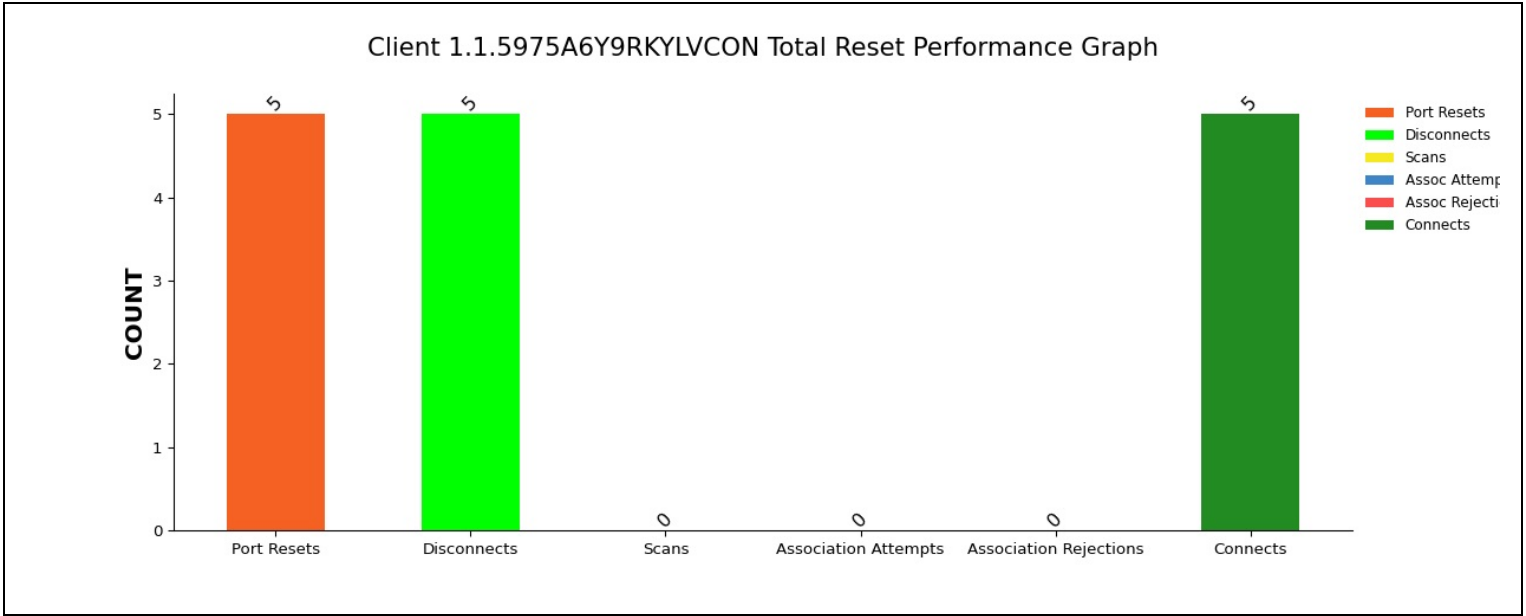
Overall Port Resets Graph

The following graph presents an overview of different events during the test, including Port Resets, Disconnects, Scans, Association Attempts, Association Rejections and Connections. Each category represents the total count achieved by all clients.

- 1. Port Resets: Total number of reset occurrences provided as test input.
- 2. Disconnects: Total number of disconnects that happened for all clients during the test when WiFi was disabled.
- 3. Scans: Total number of scanning states achieved by all clients during the test when the network is re-enabled.
- 4. Association Attempts: Total number of association attempts (Associating state) made by all clients after WiFi is re-enabled in the full test.
- 4. Association Rejections: Total number of association rejections made by all clients after WiFi is re-enabled in the full test.
- 6. Connected: Total number of successful connections (Associated state) achieved by all clients during the test when WiFi is re-enabled.

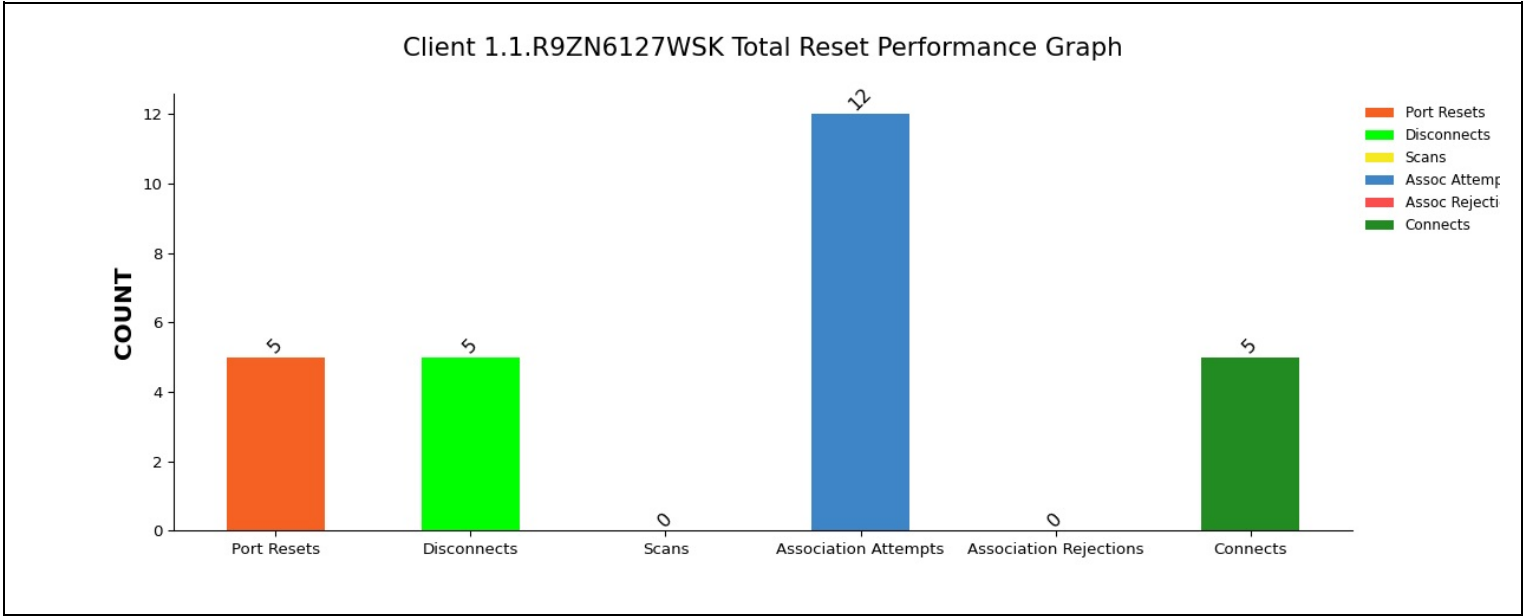


The below table & graph displays details of Vivoy12 device.



Port Resets for Client SM_M115F (R9ZN6127WSK)

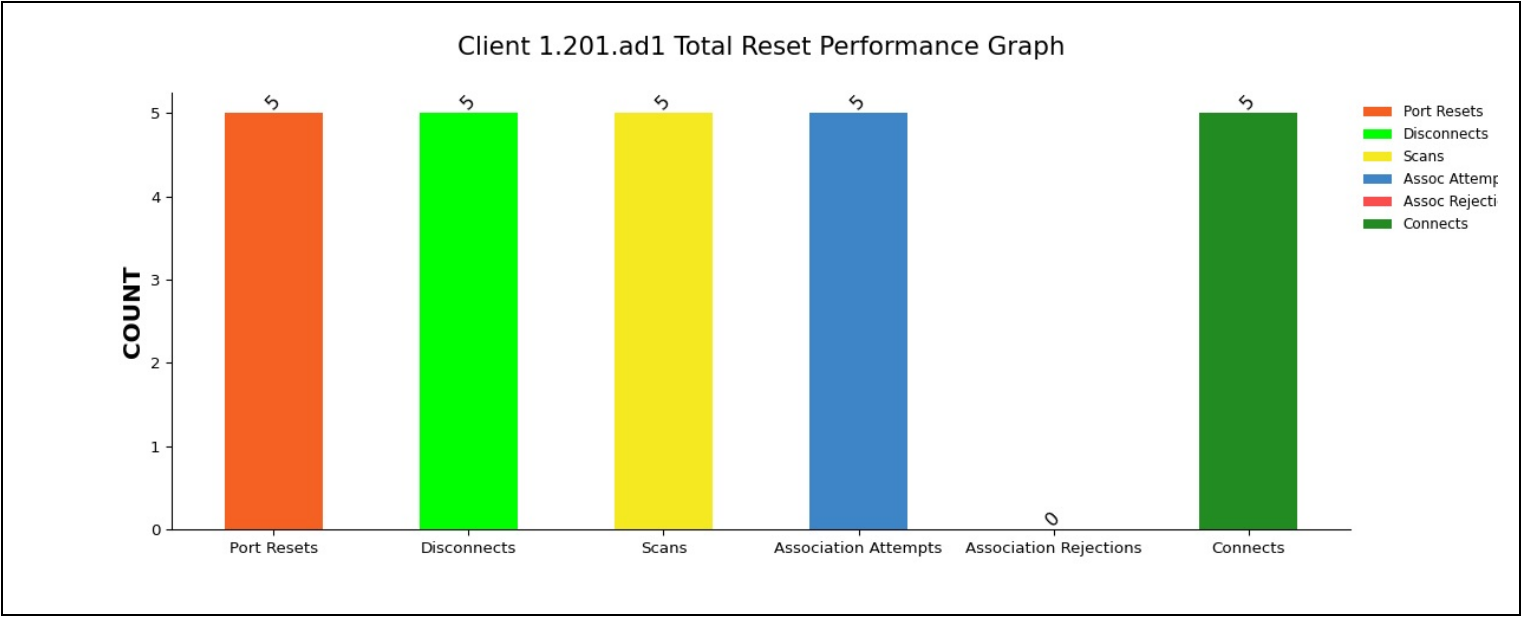
The below table & graph displays details of SM_M115F device.



Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	0	2	0	1
2	1	0	4	0	1
3	1	0	2	0	1
4	1	0	2	0	1
5	1	0	2	0	1

Port Resets for Client 1.201.ad1.

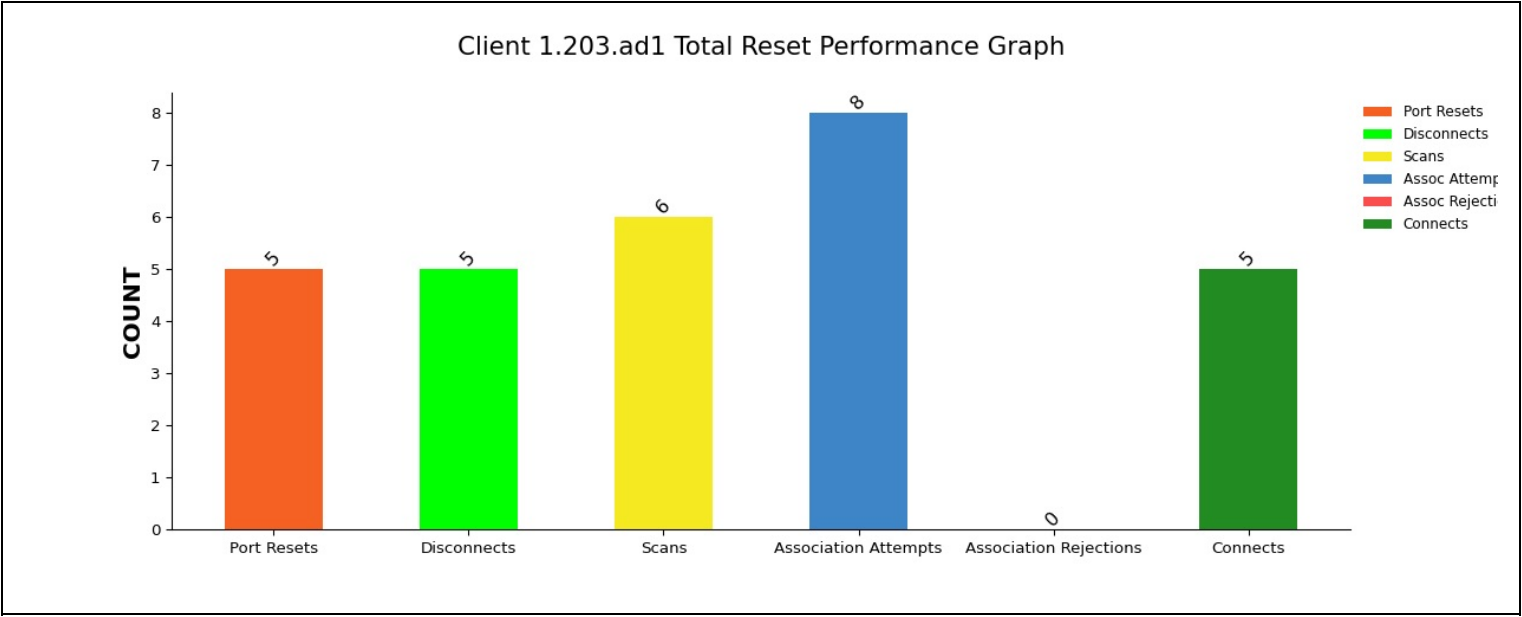
The below table & graph displays details of 1.201.ad1 device.



Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	1	1	0	1
2	1	1	1	0	1
3	1	1	1	0	1
4	1	1	1	0	1
5	1	1	1	0	1

Port Resets for Client 1.203.ad1.

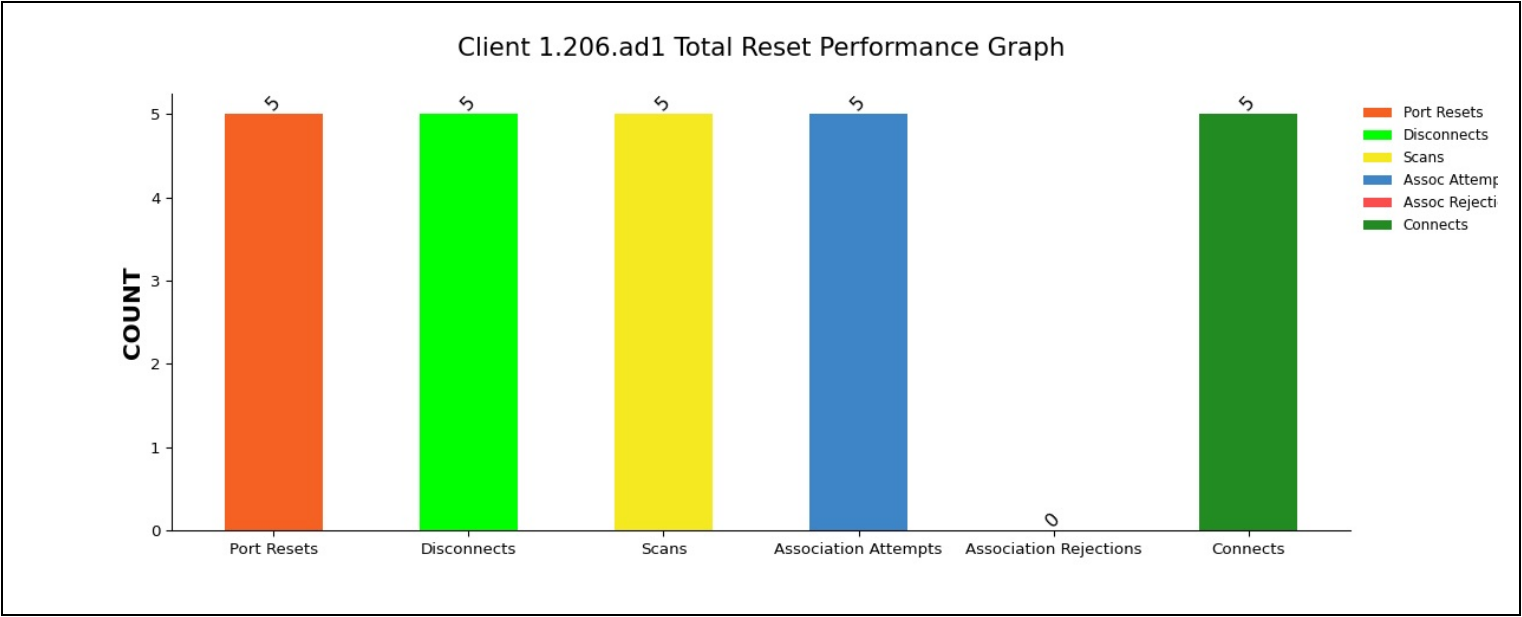
The below table & graph displays details of 1.203.ad1 device.



Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	1	1	0	1
2	1	1	2	0	1
3	1	1	2	0	1
4	1	2	2	0	1
5	1	1	1	0	1

Port Resets for Client 1.206.ad1.

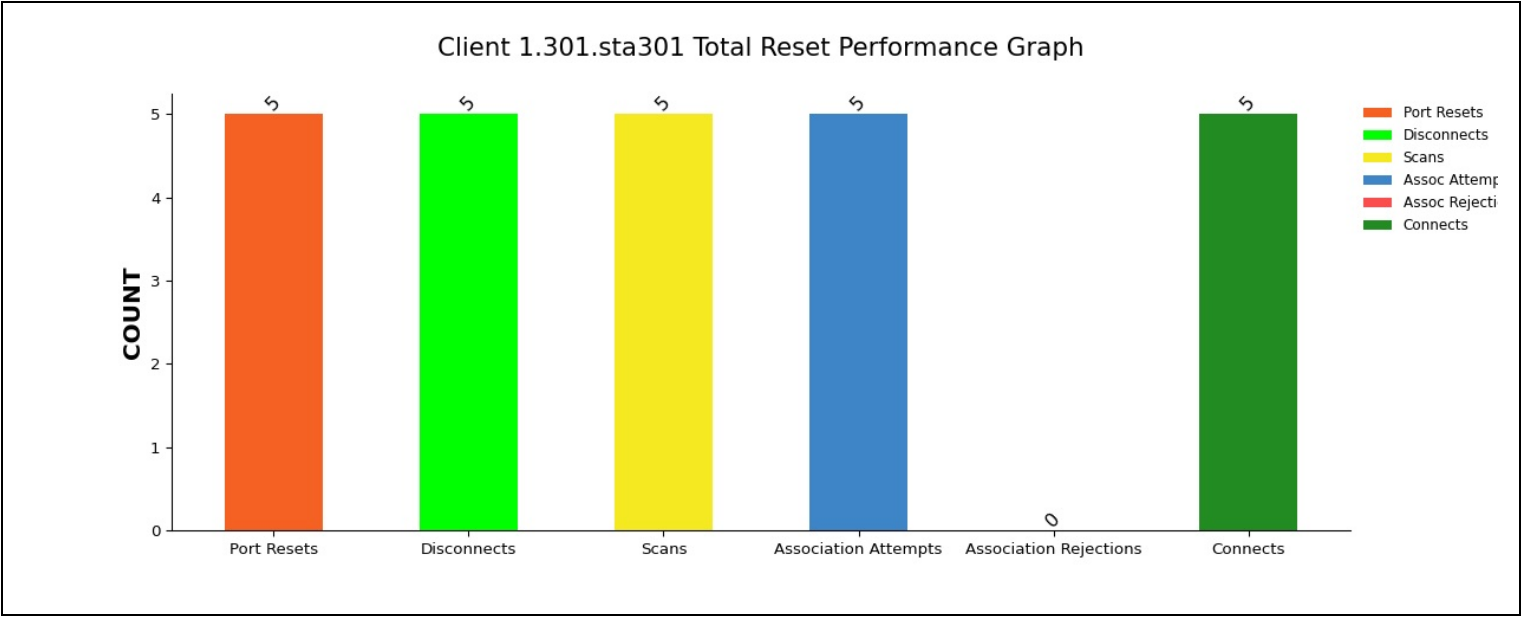
The below table & graph displays details of 1.206.ad1 device.



Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	1	1	0	1
2	1	1	1	0	1
3	1	1	1	0	1
4	1	1	1	0	1
5	1	1	1	0	1

Port Resets for Client 1.301.sta301.

The below table & graph displays details of 1.301.sta301 device.

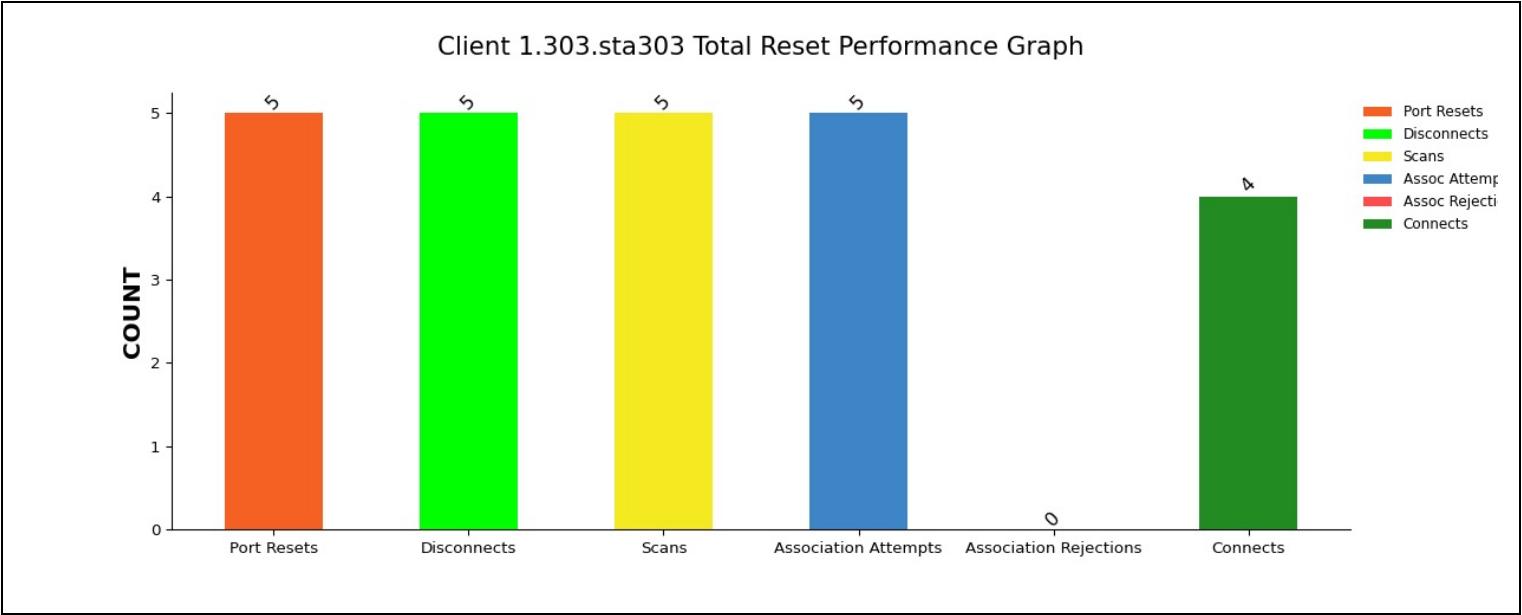


Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	1	1	0	1
2	1	1	1	0	1
3	1	1	1	0	1
4	1	1	1	0	1

5	1	1	1	0	1
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Port Resets for Client 1.303.sta303.

The below table & graph displays details of 1.303.sta303 device.



Reset Count	Disconnected	Scanning	Association attempts	Association Rejection	Connected
1	1	1	1	0	0
2	1	1	1	0	1
3	1	1	1	0	1
4	1	1	1	0	1
5	1	1	1	0	1

Tested Clients Information:

The table displays details of real clients which are involved in the test.

S.No	Name of the Devices	Hardware Version	Device Type
1	1.1.5975A6Y9RKYLVC	Vivoy12	Android
2	1.1.R9ZN6127WSK	SM_M115F	Android
3	1.201.ad1	LAPTOP-MJRO30OL	Windows
4	1.203.ad1	DESKTOP-3OSF0BQ	Windows
5	1.206.ad1	DESKTOP-OE9BALH	Windows
6	1.301.sta301	test18	Linux
7	1.303.sta303	test32	Linux

