

# WiFi Mobility Report

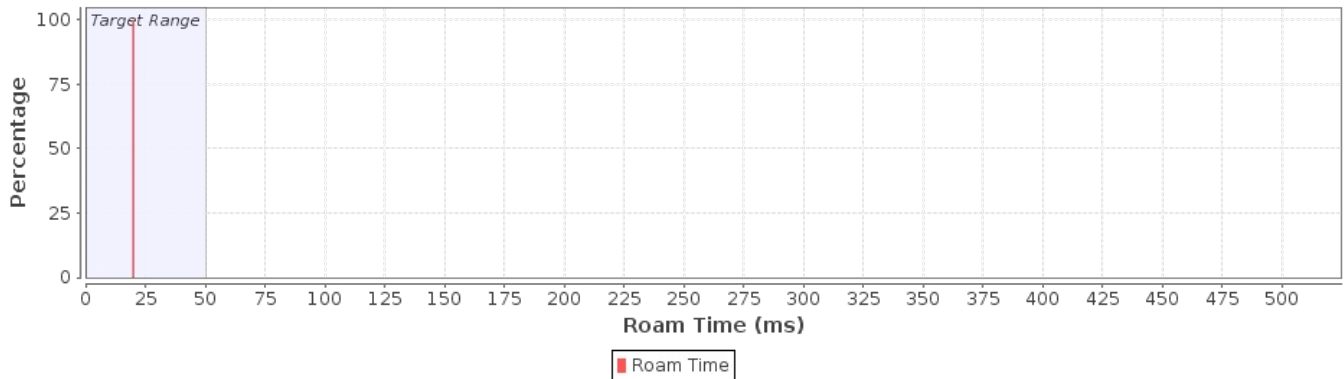


Fri Jun 07 07:47:28 PDT 2019

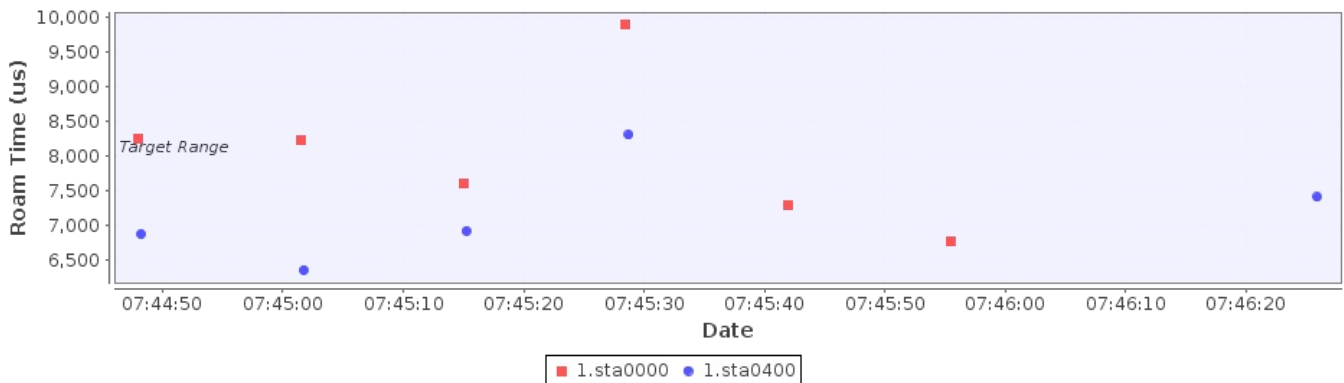
## Objective

The Candela Roam test uses the forced roam method to create and roam hundreds of WiFi stations between two or more APs with the same SSID on the same channel or different channels. The user can run thousands of roams over long durations and the test measures roaming delay for each roam, station connection times, network down time, packet loss etc.. The user can run this test using different security methods and compare the roaming performance. The expected behavior is the roaming delay should be 50msecs or less for all various kinds of fast roaming methods to avoid any form of service interruption to real-time delay sensitive applications.

### Roam Percentage per Duration



### Station Roam Times



### Roam to AP Times

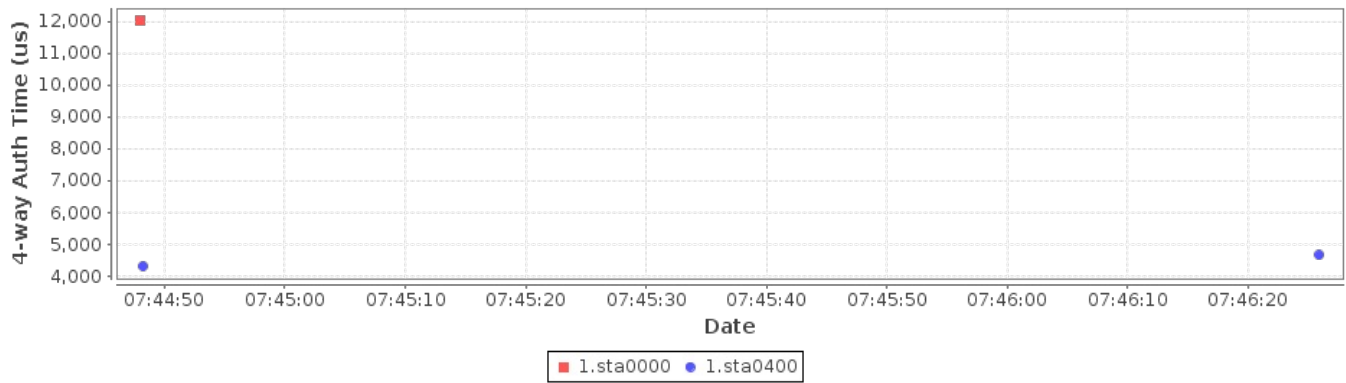


6:00:00.000

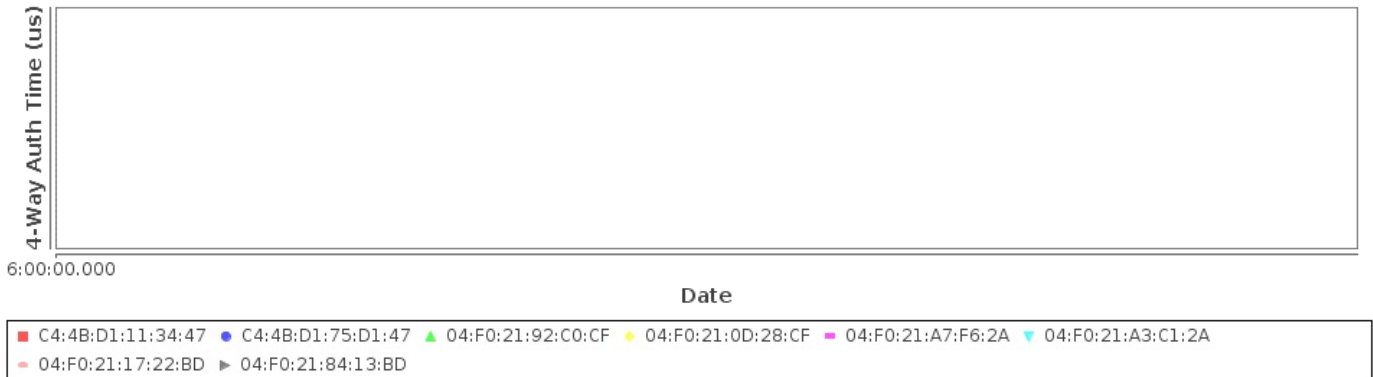
Date

- C4:4B:D1:11:34:47
- C4:4B:D1:75:D1:47
- ▲ 04:F0:21:92:C0:CF
- ◆ 04:F0:21:0D:28:CF
- 04:F0:21:A7:F6:2A
- ▼ 04:F0:21:A3:C1:2A
- 04:F0:21:17:22:BD
- ▶ 04:F0:21:84:13:BD

### Station 4-Way Auth Times

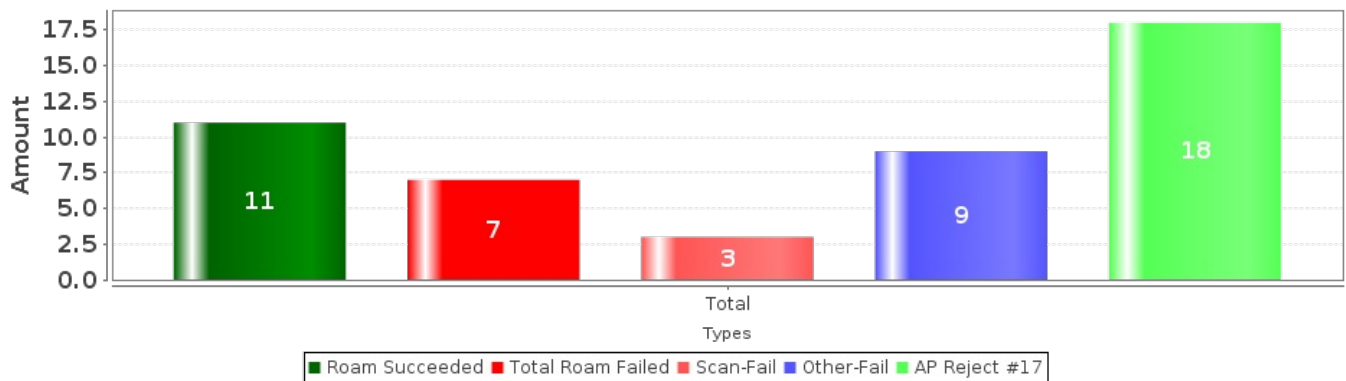


### 4-Way Auth per AP Times

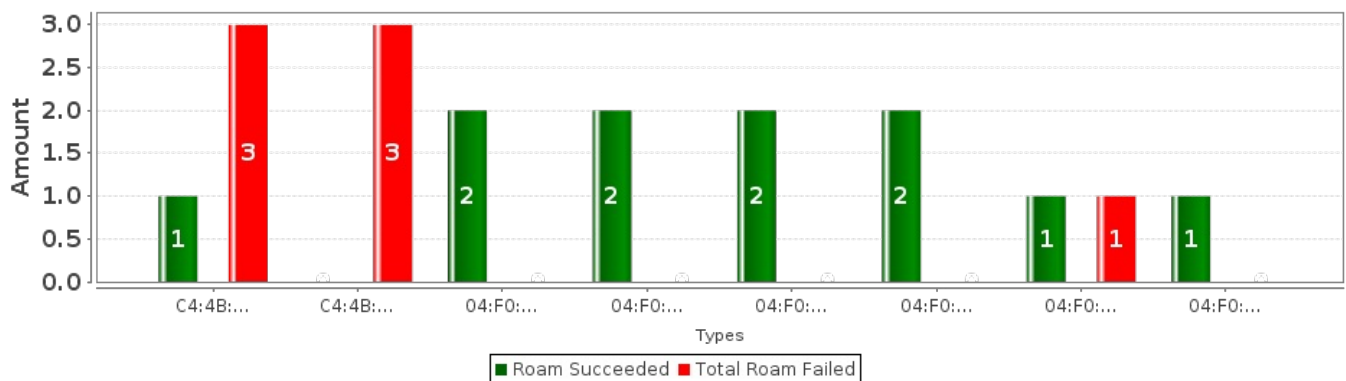


The migration is verified after the Auto-Verify timer has expired. If the migration has not completed in that time, it will be counted as failed.

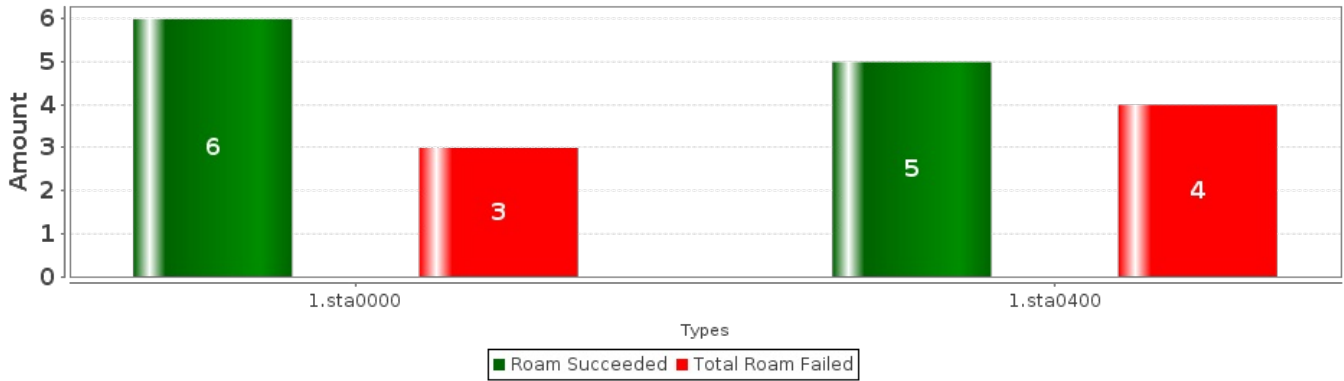
### Migration Totals



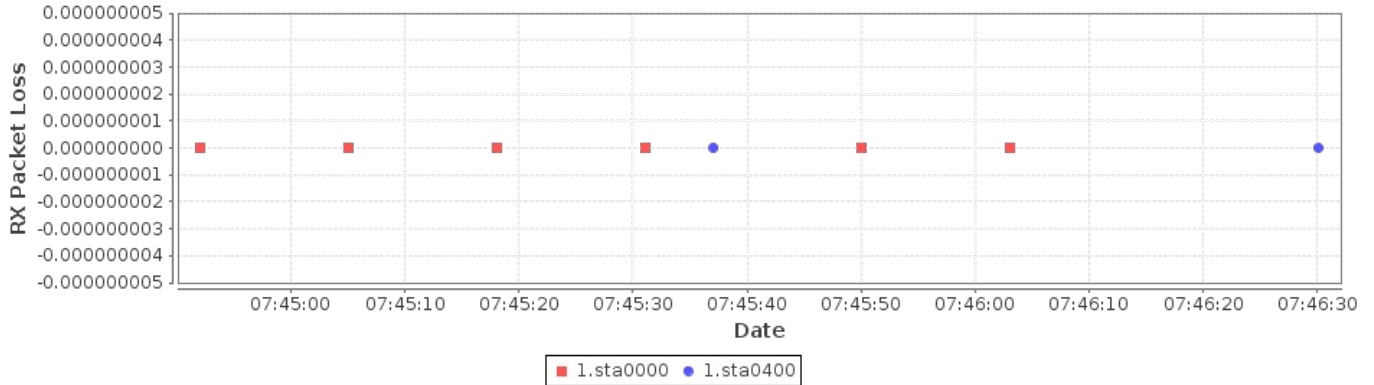
### Migration Totals per AP



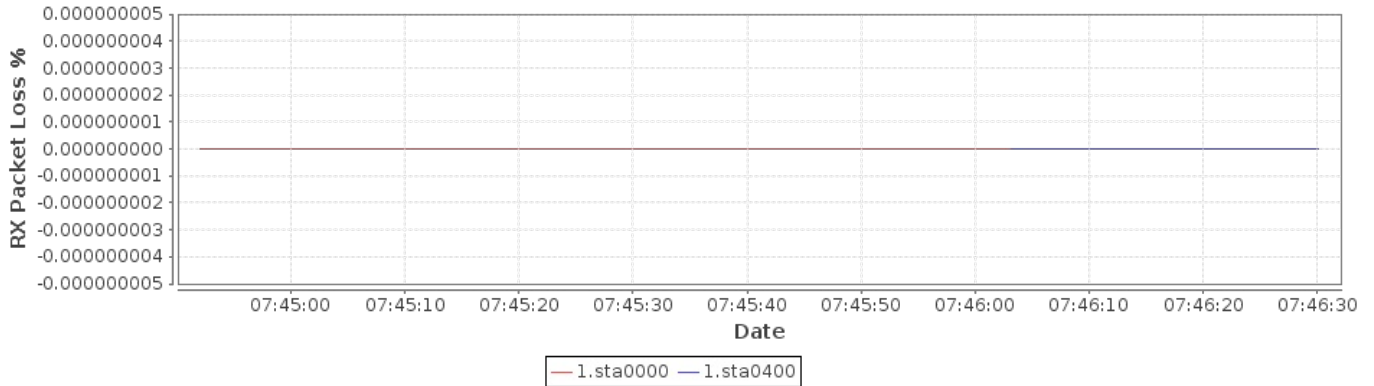
### Migration Totals per Station



### RX Packet Loss Per Roam



### Total RX Packet Loss Percentage



### Wifi Mobility Test requested values

Verify Roam By (ms):	30000 ms
Pause between commands (ms):	250 ms
Maximum roam-time in graphs (ms):	500 ms
Run Script in Loop	true
Clear Counters on Start	false
Skip Roam to current AP	true
Show Events	true
Date	Fri Jun 07 07:43:44 PDT 2019
Build Date	Fri Jun 7 06:55:11 PDT 2019
Build Version	5.3.9

### Migration Script Contents:

```
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 c4:4b:d1:11:34:47
roam 1 sta0400 c4:4b:d1:11:34:47
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
```

```
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 c4:4b:d1:75:d1:47
roam 1 sta0400 c4:4b:d1:75:d1:47
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:92:c0:cf
roam 1 sta0400 04:f0:21:92:c0:cf
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:0d:28:cf
roam 1 sta0400 04:f0:21:0d:28:cf
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:a7:f6:2a
roam 1 sta0400 04:f0:21:a7:f6:2a
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:a3:c1:2a
roam 1 sta0400 04:f0:21:a3:c1:2a
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:17:22:bd
roam 1 sta0400 04:f0:21:17:22:bd
sleep 10.0
do_cli scan 1 1 sta0000 NA 'trigger freq 5180'
do_cli scan 1 1 sta0400 NA 'trigger freq 5180'
sleep 2.0
roam 1 sta0000 04:f0:21:84:13:bd
roam 1 sta0400 04:f0:21:84:13:bd
sleep 10.0
```