

WiFi Mobility Report

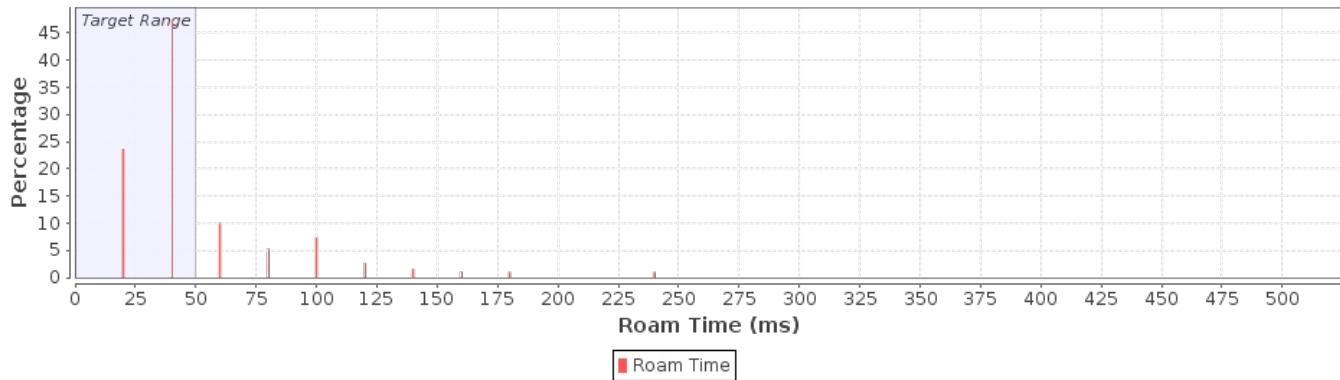


Sat Jun 01 08:13:35 PDT 2019

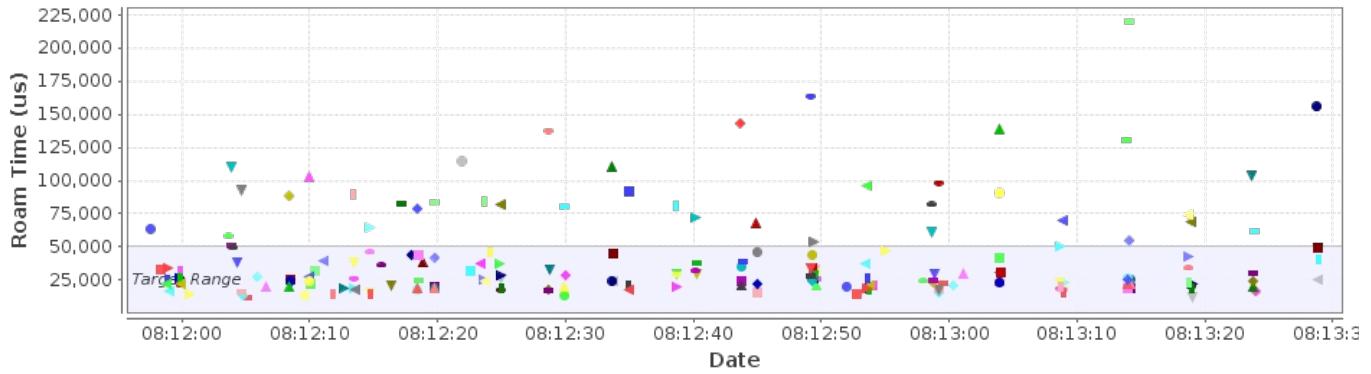
Objective

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.

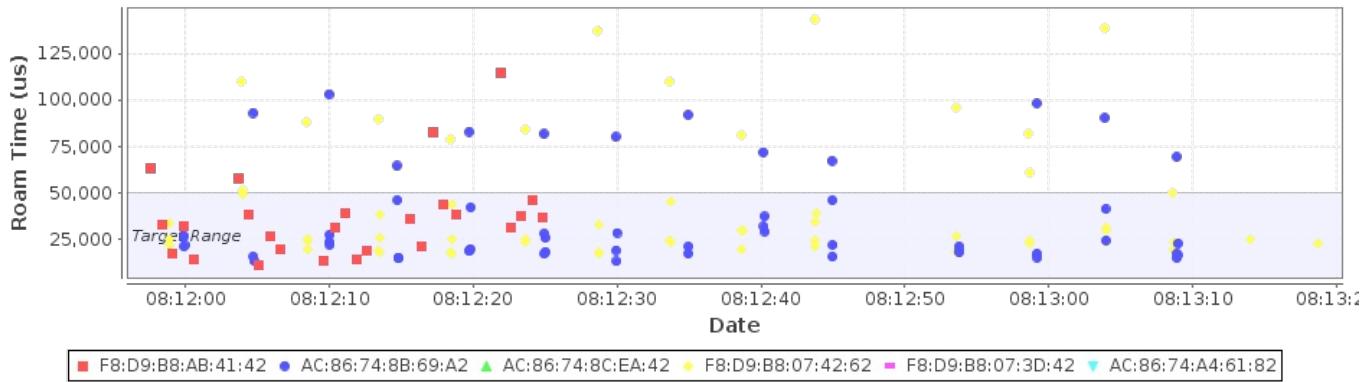
Roam Percentage per Duration



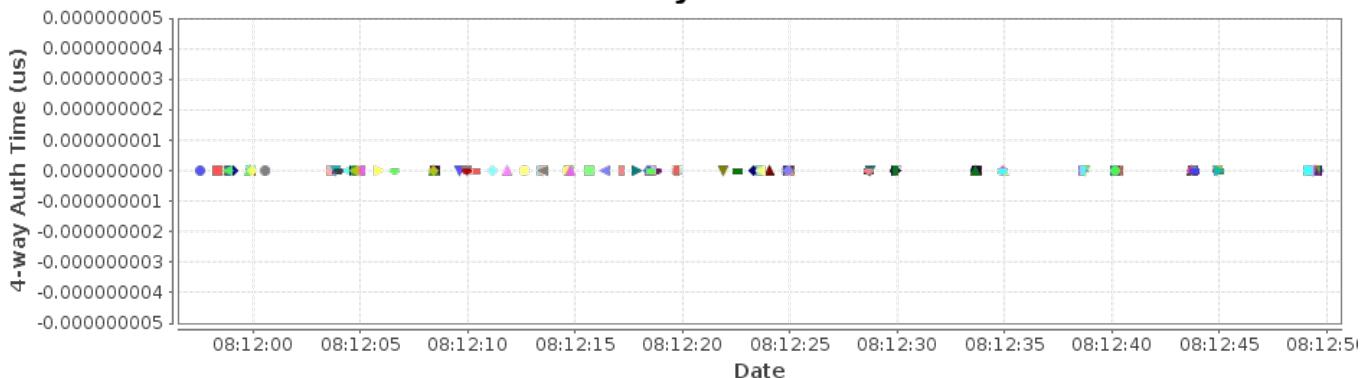
Station Roam Times



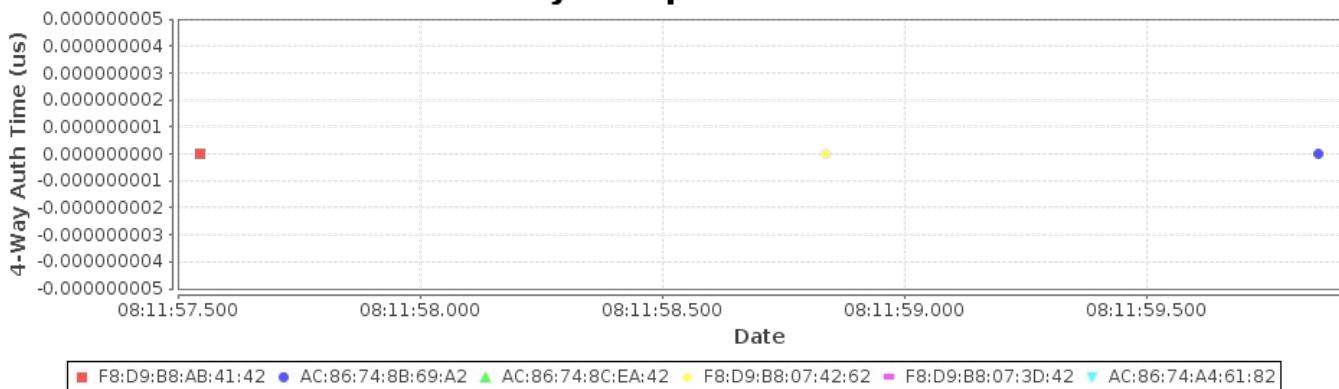
Roam to AP Times



Station 4-Way Auth Times

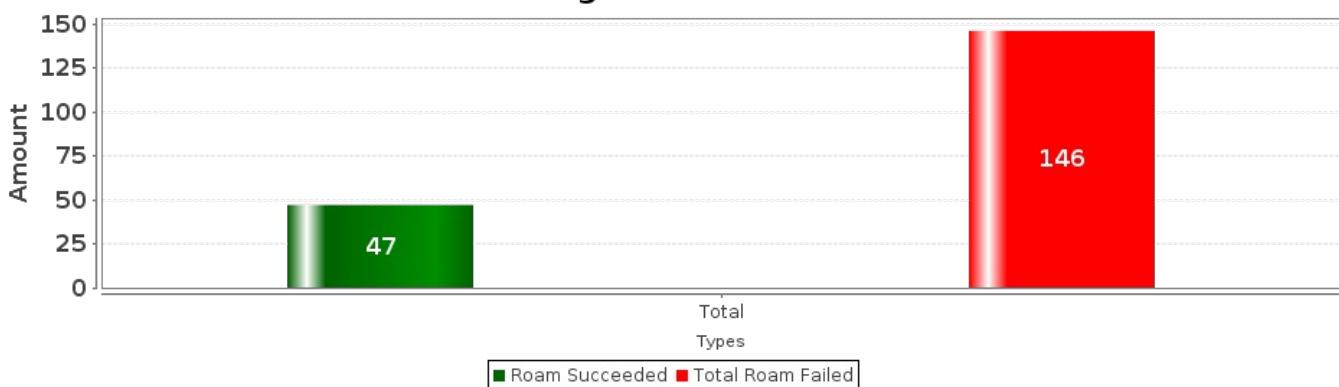


4-Way Auth per AP Times

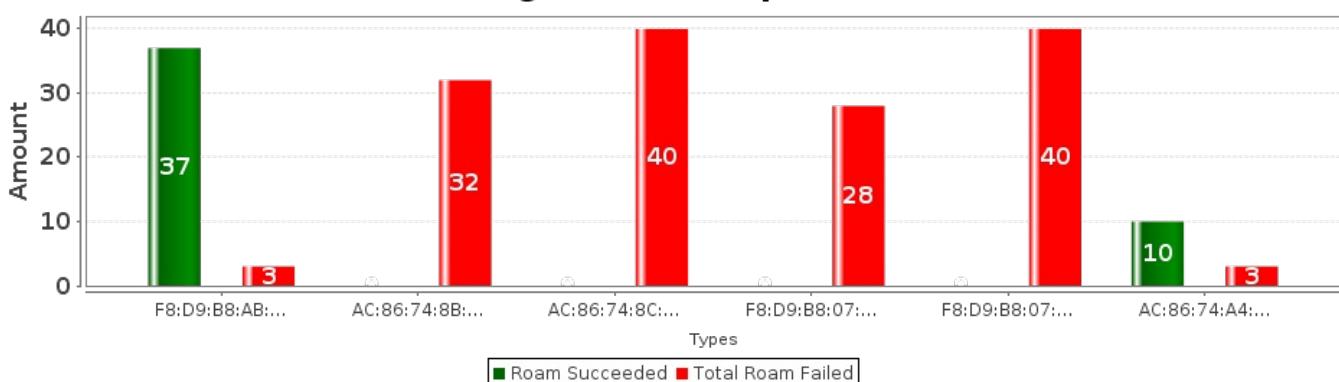


The migration is verified after the Auto-Verify timer has expired. If the migration has not completed in that time, it will be counted as failed.

Migration Totals

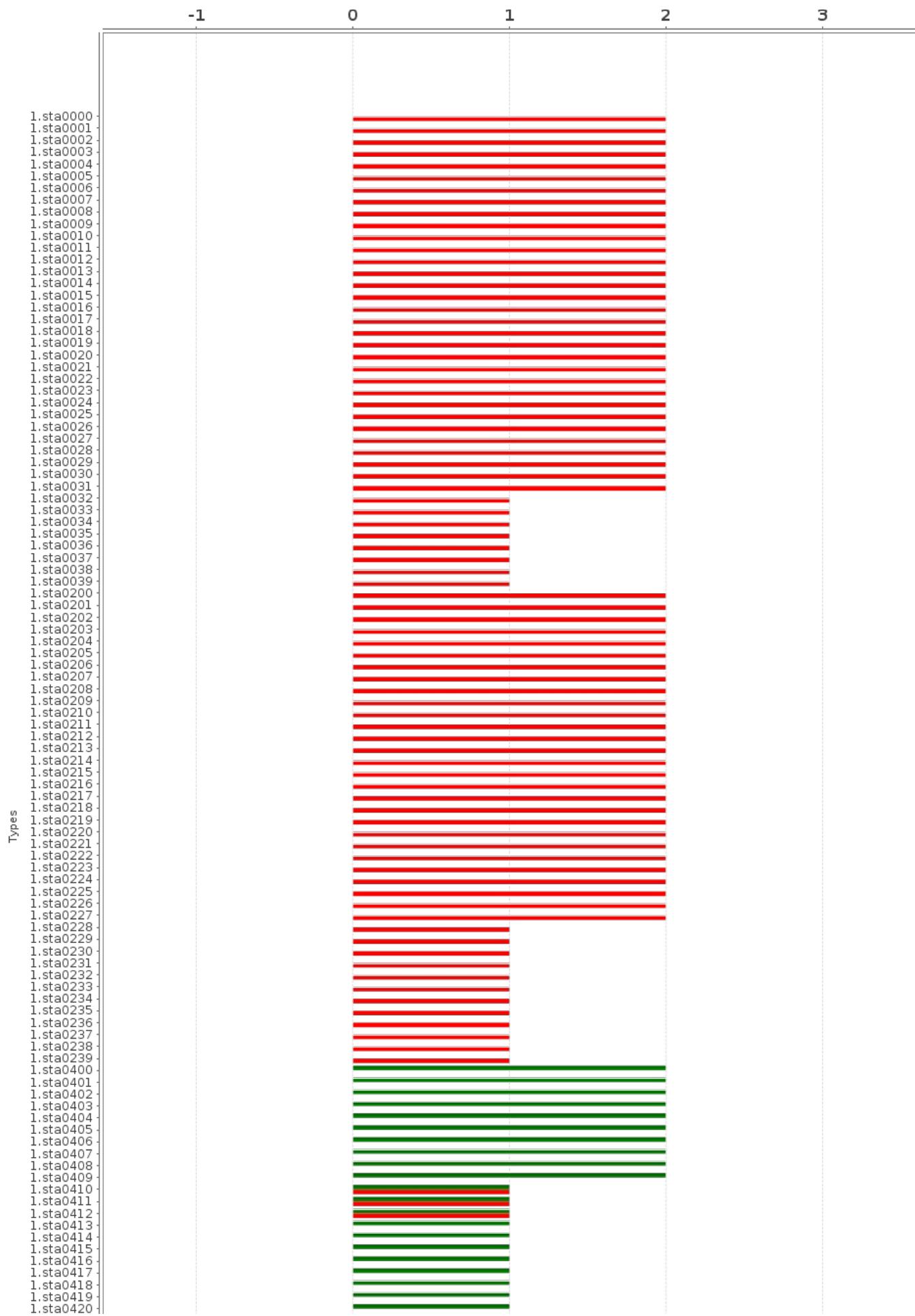


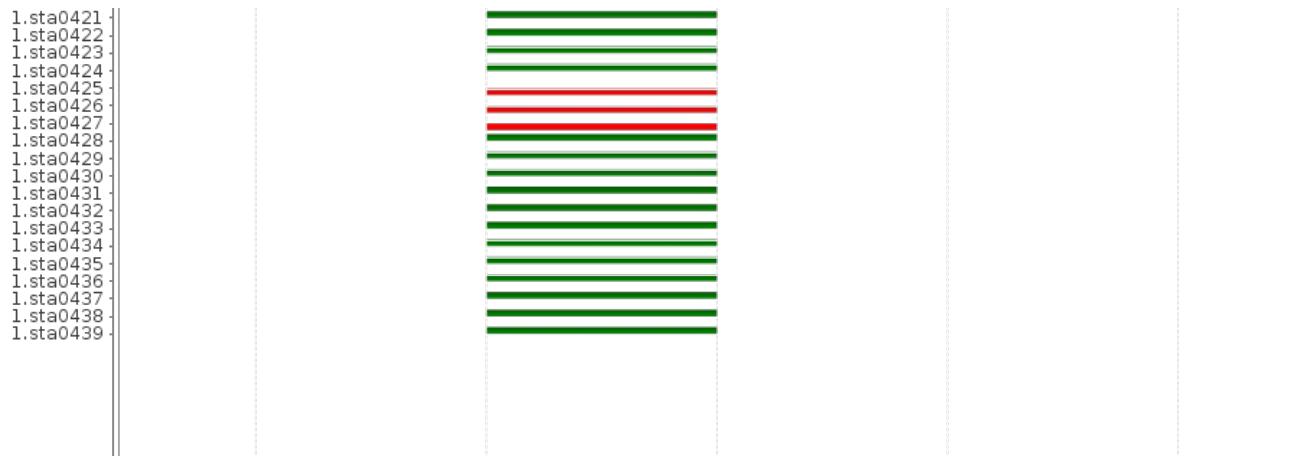
Migration Totals per AP



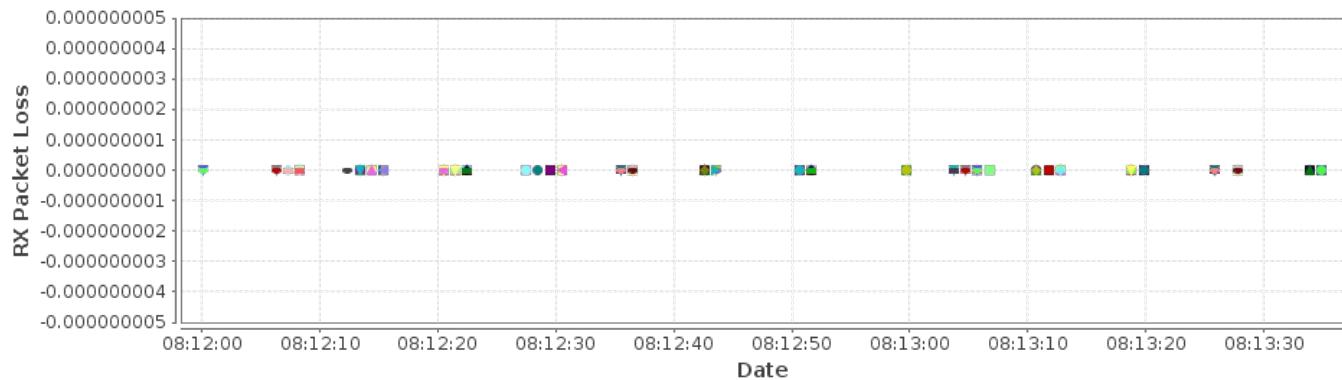
Migration Totals per Station

Amount





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	Sat Jun 01 08:11:50 PDT 2019
Build Date	Fri May 31 15:51:15 PDT 2019
Build Version	5.3.9

Migration Script Contents:

```
do_cli scan 1 1 sta0000 NA 'trigger freq 2412'
do_cli scan 1 1 sta0200 NA 'trigger freq 2437'
do_cli scan 1 1 sta0400 NA 'trigger freq 2462'
sleep 2.0
roam 1 sta0000 f8:d9:b8:07:3d:42
```



```
roam 1 sta0232 ac:86:74:8c:ea:42
roam 1 sta0432 f8:d9:b8:ab:41:42
roam 1 sta0033 f8:d9:b8:07:3d:42
roam 1 sta0233 ac:86:74:8c:ea:42
roam 1 sta0433 f8:d9:b8:ab:41:42
roam 1 sta0034 f8:d9:b8:07:3d:42
roam 1 sta0234 ac:86:74:8c:ea:42
roam 1 sta0434 f8:d9:b8:ab:41:42
sleep 2.0
roam 1 sta0035 f8:d9:b8:07:3d:42
roam 1 sta0235 ac:86:74:8c:ea:42
roam 1 sta0435 f8:d9:b8:ab:41:42
roam 1 sta0036 f8:d9:b8:07:3d:42
roam 1 sta0236 ac:86:74:8c:ea:42
roam 1 sta0436 f8:d9:b8:ab:41:42
roam 1 sta0037 f8:d9:b8:07:3d:42
roam 1 sta0237 ac:86:74:8c:ea:42
roam 1 sta0437 f8:d9:b8:ab:41:42
roam 1 sta0038 f8:d9:b8:07:3d:42
roam 1 sta0238 ac:86:74:8c:ea:42
roam 1 sta0438 f8:d9:b8:ab:41:42
roam 1 sta0039 f8:d9:b8:07:3d:42
roam 1 sta0239 ac:86:74:8c:ea:42
roam 1 sta0439 f8:d9:b8:ab:41:42
sleep 5.0
do_cli scan 1 1 sta0000 NA 'trigger freq 2412'
do_cli scan 1 1 sta0200 NA 'trigger freq 2437'
do_cli scan 1 1 sta0400 NA 'trigger freq 2462'
sleep 2.0
roam 1 sta0000 ac:86:74:8b:69:a2
roam 1 sta0200 f8:d9:b8:07:42:62
roam 1 sta0400 ac:86:74:a4:61:82
roam 1 sta0001 ac:86:74:8b:69:a2
roam 1 sta0201 f8:d9:b8:07:42:62
roam 1 sta0401 ac:86:74:a4:61:82
roam 1 sta0002 ac:86:74:8b:69:a2
roam 1 sta0202 f8:d9:b8:07:42:62
roam 1 sta0402 ac:86:74:a4:61:82
roam 1 sta0003 ac:86:74:8b:69:a2
roam 1 sta0203 f8:d9:b8:07:42:62
roam 1 sta0403 ac:86:74:a4:61:82
roam 1 sta0004 ac:86:74:8b:69:a2
roam 1 sta0204 f8:d9:b8:07:42:62
roam 1 sta0404 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0005 ac:86:74:8b:69:a2
roam 1 sta0205 f8:d9:b8:07:42:62
roam 1 sta0405 ac:86:74:a4:61:82
roam 1 sta0006 ac:86:74:8b:69:a2
roam 1 sta0206 f8:d9:b8:07:42:62
roam 1 sta0406 ac:86:74:a4:61:82
roam 1 sta0007 ac:86:74:8b:69:a2
roam 1 sta0207 f8:d9:b8:07:42:62
roam 1 sta0407 ac:86:74:a4:61:82
roam 1 sta0008 ac:86:74:8b:69:a2
roam 1 sta0208 f8:d9:b8:07:42:62
roam 1 sta0408 ac:86:74:a4:61:82
roam 1 sta0009 ac:86:74:8b:69:a2
roam 1 sta0209 f8:d9:b8:07:42:62
roam 1 sta0409 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0010 ac:86:74:8b:69:a2
roam 1 sta0210 f8:d9:b8:07:42:62
roam 1 sta0410 ac:86:74:a4:61:82
roam 1 sta0011 ac:86:74:8b:69:a2
roam 1 sta0211 f8:d9:b8:07:42:62
roam 1 sta0411 ac:86:74:a4:61:82
roam 1 sta0012 ac:86:74:8b:69:a2
roam 1 sta0212 f8:d9:b8:07:42:62
roam 1 sta0412 ac:86:74:a4:61:82
roam 1 sta0013 ac:86:74:8b:69:a2
roam 1 sta0213 f8:d9:b8:07:42:62
roam 1 sta0413 ac:86:74:a4:61:82
roam 1 sta0014 ac:86:74:8b:69:a2
roam 1 sta0214 f8:d9:b8:07:42:62
roam 1 sta0414 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0015 ac:86:74:8b:69:a2
roam 1 sta0215 f8:d9:b8:07:42:62
roam 1 sta0415 ac:86:74:a4:61:82
roam 1 sta0016 ac:86:74:8b:69:a2
roam 1 sta0216 f8:d9:b8:07:42:62
roam 1 sta0416 ac:86:74:a4:61:82
roam 1 sta0017 ac:86:74:8b:69:a2
roam 1 sta0217 f8:d9:b8:07:42:62
roam 1 sta0417 ac:86:74:a4:61:82
roam 1 sta0018 ac:86:74:8b:69:a2
roam 1 sta0218 f8:d9:b8:07:42:62
roam 1 sta0418 ac:86:74:a4:61:82
roam 1 sta0019 ac:86:74:8b:69:a2
roam 1 sta0219 f8:d9:b8:07:42:62
roam 1 sta0419 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0020 ac:86:74:8b:69:a2
roam 1 sta0220 f8:d9:b8:07:42:62
roam 1 sta0420 ac:86:74:a4:61:82
roam 1 sta0021 ac:86:74:8b:69:a2
roam 1 sta0221 f8:d9:b8:07:42:62
roam 1 sta0421 ac:86:74:a4:61:82
roam 1 sta0022 ac:86:74:8b:69:a2
roam 1 sta0222 f8:d9:b8:07:42:62
roam 1 sta0422 ac:86:74:a4:61:82
```

```
roam 1 sta0023 ac:86:74:8b:69:a2
roam 1 sta0223 f8:d9:b8:07:42:62
roam 1 sta0423 ac:86:74:a4:61:82
roam 1 sta0024 ac:86:74:8b:69:a2
roam 1 sta0224 f8:d9:b8:07:42:62
roam 1 sta0424 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0025 ac:86:74:8b:69:a2
roam 1 sta0225 f8:d9:b8:07:42:62
roam 1 sta0425 ac:86:74:a4:61:82
roam 1 sta0026 ac:86:74:8b:69:a2
roam 1 sta0226 f8:d9:b8:07:42:62
roam 1 sta0426 ac:86:74:a4:61:82
roam 1 sta0027 ac:86:74:8b:69:a2
roam 1 sta0227 f8:d9:b8:07:42:62
roam 1 sta0427 ac:86:74:a4:61:82
roam 1 sta0028 ac:86:74:8b:69:a2
roam 1 sta0228 f8:d9:b8:07:42:62
roam 1 sta0428 ac:86:74:a4:61:82
roam 1 sta0029 ac:86:74:8b:69:a2
roam 1 sta0229 f8:d9:b8:07:42:62
roam 1 sta0429 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0030 ac:86:74:8b:69:a2
roam 1 sta0230 f8:d9:b8:07:42:62
roam 1 sta0430 ac:86:74:a4:61:82
roam 1 sta0031 ac:86:74:8b:69:a2
roam 1 sta0231 f8:d9:b8:07:42:62
roam 1 sta0431 ac:86:74:a4:61:82
roam 1 sta0032 ac:86:74:8b:69:a2
roam 1 sta0232 f8:d9:b8:07:42:62
roam 1 sta0432 ac:86:74:a4:61:82
roam 1 sta0033 ac:86:74:8b:69:a2
roam 1 sta0233 f8:d9:b8:07:42:62
roam 1 sta0433 ac:86:74:a4:61:82
roam 1 sta0034 ac:86:74:8b:69:a2
roam 1 sta0234 f8:d9:b8:07:42:62
roam 1 sta0434 ac:86:74:a4:61:82
sleep 2.0
roam 1 sta0035 ac:86:74:8b:69:a2
roam 1 sta0235 f8:d9:b8:07:42:62
roam 1 sta0435 ac:86:74:a4:61:82
roam 1 sta0036 ac:86:74:8b:69:a2
roam 1 sta0236 f8:d9:b8:07:42:62
roam 1 sta0436 ac:86:74:a4:61:82
roam 1 sta0037 ac:86:74:8b:69:a2
roam 1 sta0237 f8:d9:b8:07:42:62
roam 1 sta0437 ac:86:74:a4:61:82
roam 1 sta0038 ac:86:74:8b:69:a2
roam 1 sta0238 f8:d9:b8:07:42:62
roam 1 sta0438 ac:86:74:a4:61:82
roam 1 sta0039 ac:86:74:8b:69:a2
roam 1 sta0239 f8:d9:b8:07:42:62
roam 1 sta0439 ac:86:74:a4:61:82
```