

How to check wireless speed via iPerf

Because most of the test tool connect from the client to the Internet, there's no way to know if there's wireless or the Internet issue when the speed is low. To use the iperf can exclude the Internet issue and only test for the connection from the client to the AP.

Test steps:

1. When testing the speed, please make sure there's no other APs at the same channel of the test AP, and no other clients connected on the AP. The environment should be clear without other APs or clients or the other AP signal strength should be lower than -90dBm.
2. Prepare two clients for testing. One is connected on the AP directly with wired cable, and the other is connected with the SSID of the AP.
3. To execute the iperf, one of the client will be the server and the other one is the client.
4. Put the iperf execution file in C:\
5. Please open a command window in Windows OS, and execute below commands on one of the client which is acted as a iperf server.

C:\> iperf -s

```
C:\>iperf -s
-----
Server listening on 5201
-----
```

6. You can use the computer or the mobile phone with iperf app tool as a iperf client. Here are the example of two client execute commands for your reference.

➔ For the Windows client (PC or a laptop) connected on the AP with wireless.

C:\> iperf -c 192.168.1.36 -P 6 -t 10 -i 1

The parameter means the client will connect to the server IP 192.168.136 and test for 10 seconds with 6 parallels per second.

```
C:\WINDOWS\system32>cd C:\
C:\> iperf -c 192.168.1.36 -P 6 -t 10 -i 1
```

➔ For the mobile phone app, you can set the parameters on it directly.

The screenshot shows the iPerf mobile application interface. At the top, there are three buttons: 'Help' (blue), 'iPerf' (black), and 'Start' (blue). Below these are several configuration fields:

- Server address:** A text input field containing '192.168.1.36'.
- Server port:** A text input field containing '5201'.
- Transmit mode:** Two buttons, 'Upload' and 'Download', with 'Download' being the selected mode.
- Streams:** A row of five buttons labeled '1', '2', '3', '4', and '5', with '1' being the selected button.
- Test duration:** A row of three buttons labeled '10s', '30s', and '5 min', with '10s' being the selected button.

Test Result

The test result will show on the laptop or app directly.

1. Show on the laptop.

```
[ ID] Interval      Transfer      Bandwidth
[  4] 0.00-10.01  sec  17.9 MBytes  15.0 Mbits/sec  sender
[  4] 0.00-10.01  sec  17.7 MBytes  14.9 Mbits/sec  receiver
[  6] 0.00-10.01  sec  15.8 MBytes  13.2 Mbits/sec  sender
[  6] 0.00-10.01  sec  15.6 MBytes  13.1 Mbits/sec  receiver
[  8] 0.00-10.01  sec  15.8 MBytes  13.2 Mbits/sec  sender
[  8] 0.00-10.01  sec  15.7 MBytes  13.1 Mbits/sec  receiver
[ 10] 0.00-10.01  sec  17.0 MBytes  14.2 Mbits/sec  sender
[ 10] 0.00-10.01  sec  16.8 MBytes  14.1 Mbits/sec  receiver
[ 12] 0.00-10.01  sec  15.4 MBytes  12.9 Mbits/sec  sender
[ 12] 0.00-10.01  sec  15.3 MBytes  12.8 Mbits/sec  receiver
[ 14] 0.00-10.01  sec  16.6 MBytes  13.9 Mbits/sec  sender
[ 14] 0.00-10.01  sec  16.4 MBytes  13.7 Mbits/sec  receiver
[SUM] 0.00-10.01  sec  98.4 MBytes  82.4 Mbits/sec  sender
[SUM] 0.00-10.01  sec  97.5 MBytes  81.7 Mbits/sec  receiver ]

iperf Done.
C:\>
```

2. Show on the app.

