

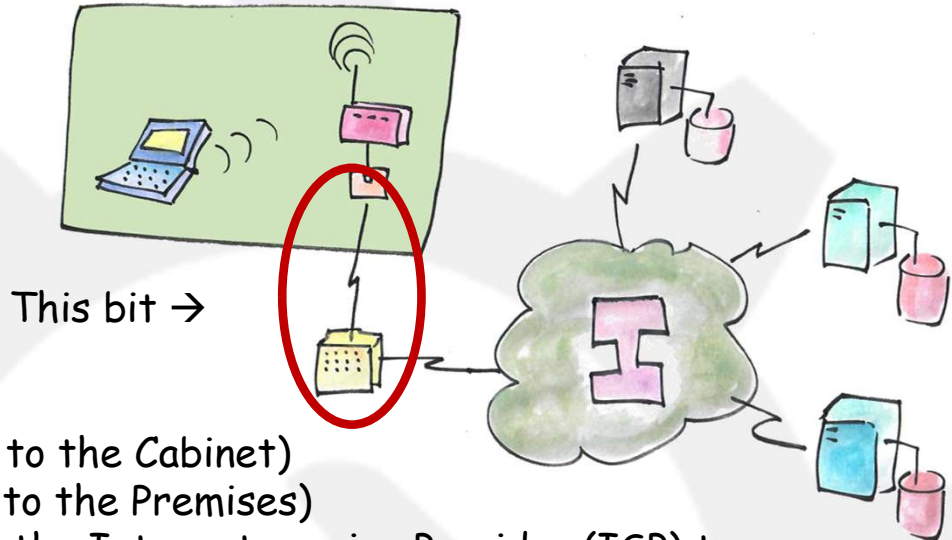
Network speed



Why is my network soooo slow:

Especially when I've paid for a REALLY fast Internet speed?

- So what did you get for you money?

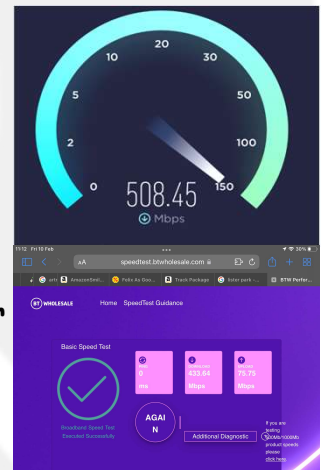


This bit →

- Today there are two 'flavours':
 - FTTC (Fibre to the Cabinet)
 - FTTP (Fibre to the Premises)
- The speed is from the Internet service Provider (ISP) to your wall plate, and not beyond.

How did you measure your Internet Speed?

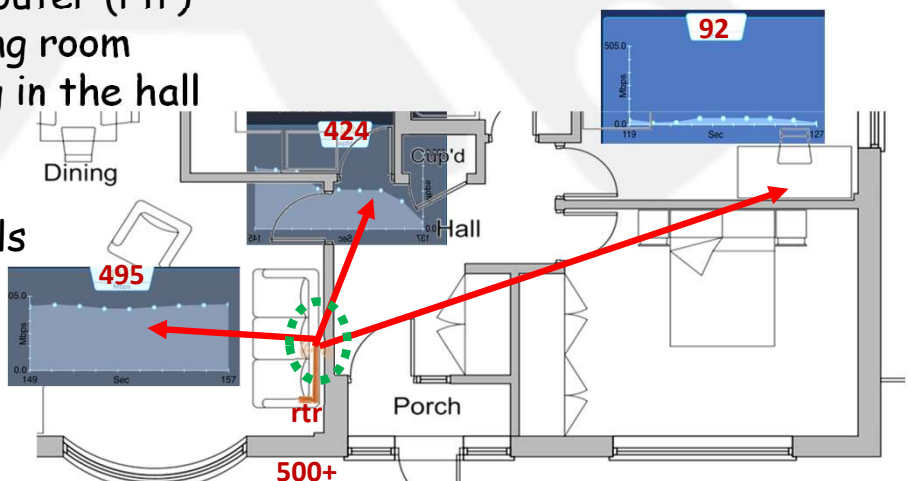
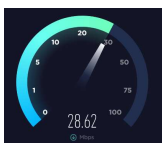
- Most people use OOKLA's [Speedtest.net](https://speedtest.net) website. I prefer <https://speedtest.btwholesale.com>
- However THIS IS FROM YOUR MACHINE, not the wall plate. Ideally you should use an ethernet cable from your laptop to your router for the measurement. Or use your router to do it for you (if it can?)
- If you don't the reading may drop greatly →
- Is WiFi the problem?



- Look at my floor plan.
- 500Mbps into the router (rtr)
- 495Mbps in my dining room
- 424Mbps and falling in the hall
- And a mere 92Mbps at my computer

- Radio waves don't like walls or worse, radiators
- However it gets worse...

28.62Mbps ☹️





Why is my network sooo slow, part two

- Multiple competing networks

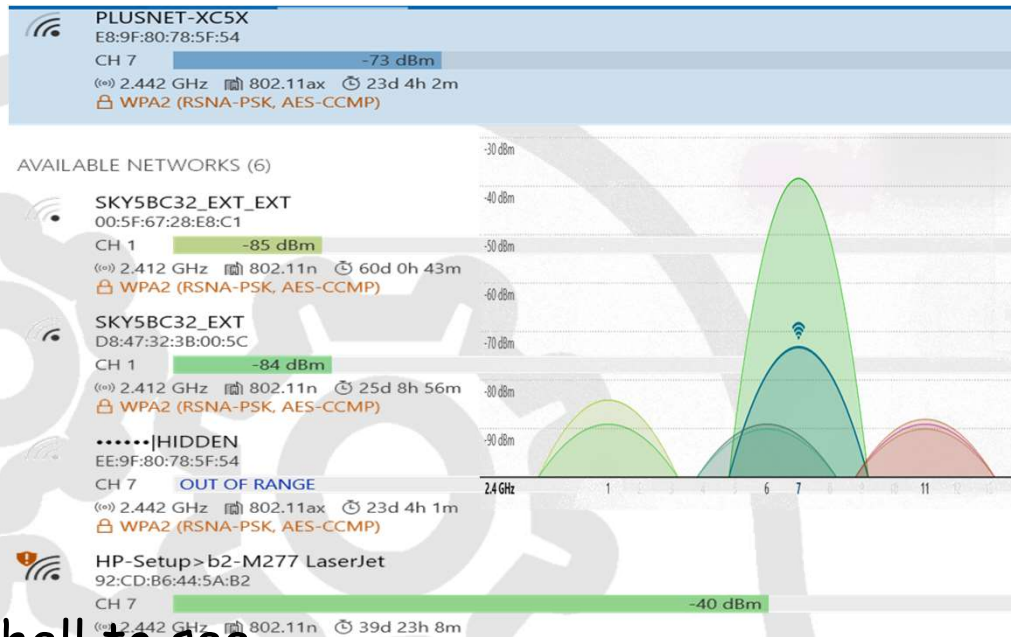
- AND the adapter speed of your laptop's WiFi!

- Use properties
- Or CMD / Powershell to see
\$ *wmic nic where netEnabled=true get name, speed*
PS> *Get-NetAdapter | select interfaceDescription, name, status, linkSpeed*

- Adapter rated at 195Mbps and measured at 130Mbps

Up 130 Mbps

The speed is generally shown in megabits per second. The speed tends to fluctuate, ranging from 20Mbps 450Mbps if the computer is connected to a wireless n (802.11n) network, and can get as high as 1,300Mbps for an 802.11ac network. However, the most important thing is if this number is higher than your [broadband download speed](#), then you're likely getting the full internet speed on the computer. If it's lower, then it's definitely your Wi-Fi that's slowing down your connection to the internet.



PLUSNET-XC5X	
Properties	
SSID:	PLUSNET-XC5X
Protocol:	Wi-Fi 5 (802.11ac)
Security type:	WPA2-Personal
Network band:	5 GHz
Network channel:	100
Link speed (Receive/Transmit):	195/195 (Mbps)
IPv6 address:	2a05:87c6:dd0:0:c8df:16cd:aff3:9166
Link-local IPv6 address:	fe80::a82e:b073:68c0:208e%11
IPv6 DNS servers:	2a05:87c6:dd0:0:ea9f:80ff:fe78:5f53
IPv4 address:	10.18.1.114
IPv4 DNS servers:	8.8.8.8 8.8.4.4
Manufacturer:	Intel Corporation
Description:	Intel(R) Dual Band Wireless-AC 3160
Driver version:	18.33.17.1
Physical address (MAC):	F4-06-69-80-61-91

