WiFi Analyzer

User Guide

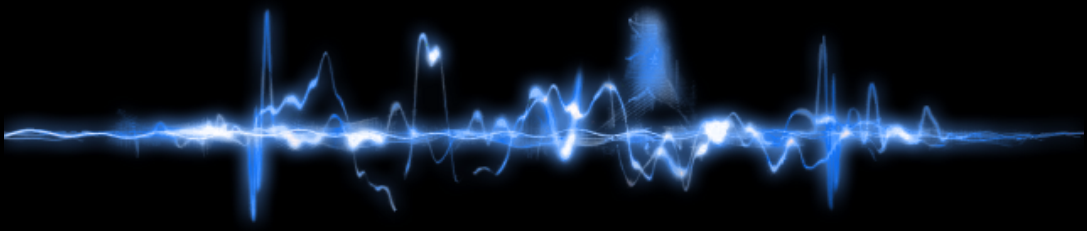


Table of Contents

Terms You Should Know

Access point (AP): Generally, this is your router. A device that creates a wireless local area network.

WPA2, WPA, WEP: Security protocols for wireless networks. WPA2 being the strongest encryption protocol, and WEP being the weakest.

SSID: The name of your wireless network.

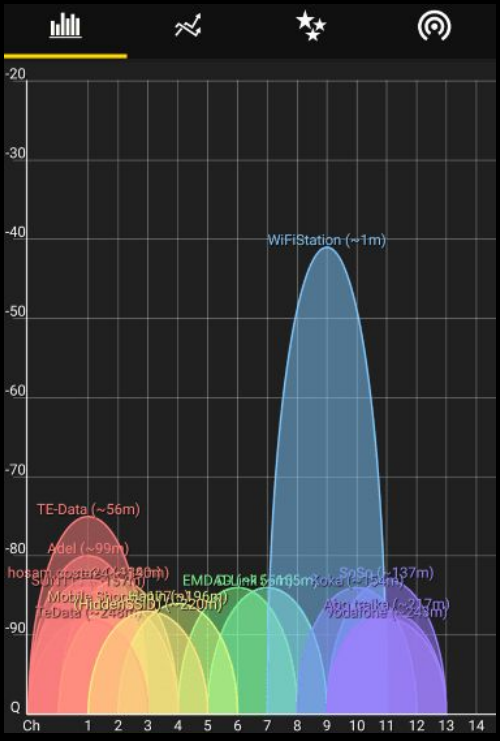
MAC address: Unique 12-character identifier (e.g. 00:00:00:00:00:0X) for a specific piece of network hardware.

Frequency: There are two frequency bands available to use when setting up a WiFi network. There are: 2.4GHz 5GHz.

Channel: Each frequency band is divided into a number of smaller bands, known as channels. These are similar to television channels.

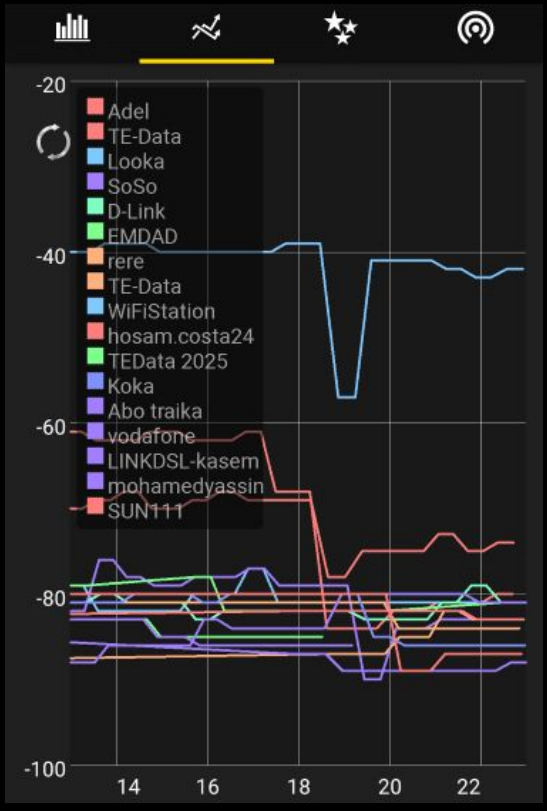
Signal strength: The power of the received signal. The higher the better. Example: -65 dBm is better than -90 dBm.

Channel Graph



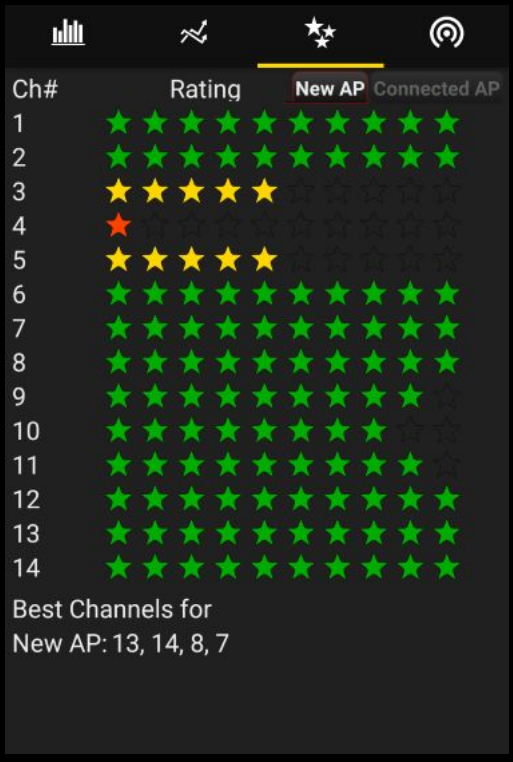
Real-time graph of nearby access points.
Currently connected AP will have a separate color (Red).

Time Graph



Shows the signal strength of each access point overtime. Currently connected AP will have a separate color (Red). Time Graph shows you how your device losses or gains signal strength by moving into different locations around the house.

Best Channels



Shows the best channels to use for a new access point or the currently connected AP, more stars means better channel.

Choose “New AP” to show the best channels for a new network that you are not currently connected to.
Choose “Connected AP” to show the best channels for the network that your device is currently connected to.

Access Points

Shows detailed information about each nearby access point (including access points with hidden SSID) such as: SSID, MAC address, Distance, Frequency, Channel, Capabilities and RSSI. Currently connected AP will have WiFi icon next to its SSID.

Copy MAC address

Press and hold the access point.

Connect to open access point

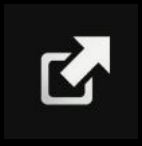
Click on the access point.

Top Menu

Switch from 2.4GHz to 5GHz and vice-versa.

Start/Pause automatic WiFi scan.

WiFi Diagnostics (Premium version).

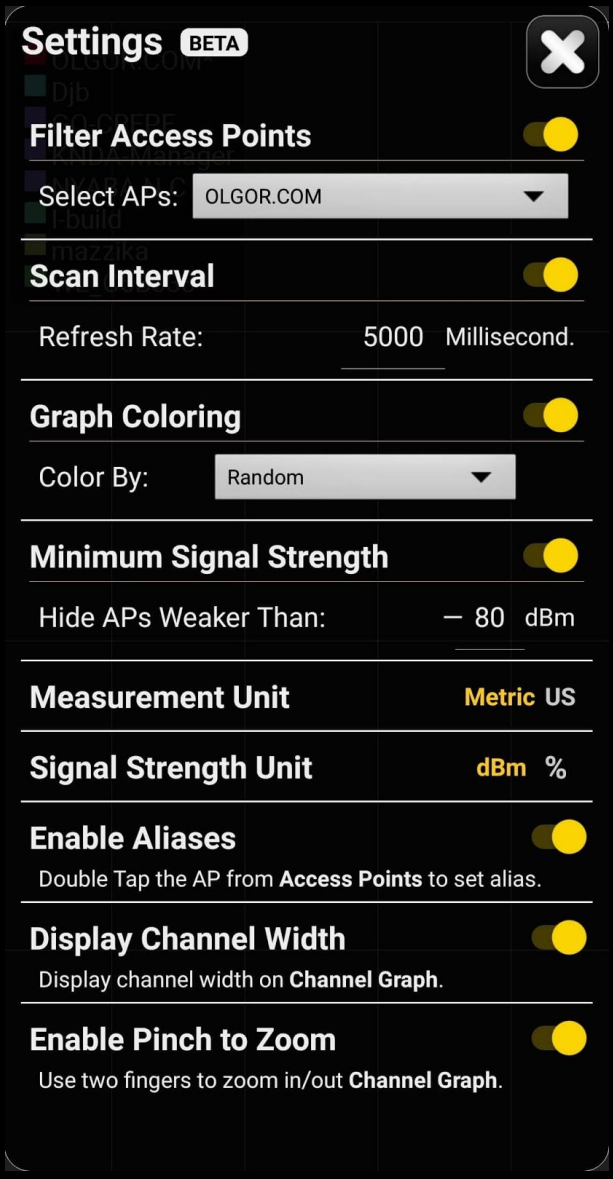


Export current graph.

Info about the app.

Settings

(Premium version)



Filter Access Points

Only display selected APs and hide the others.

Scan Interval

Change the WiFi scan interval.
(1 Second = 1000 Millisecond)

Graph Coloring

Change how the app color graphs.

Minimum Signal Strength

Hide APs with a signal strength lower than the value set.

Measurement Unit

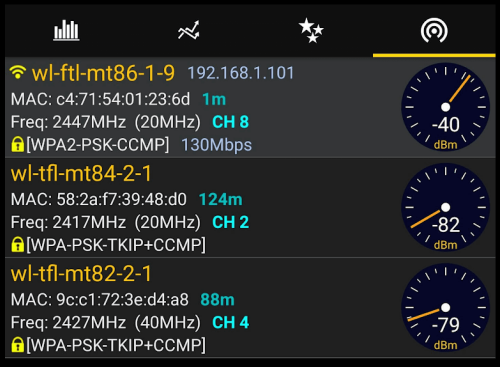
Switch between US and Metric measurements.

Aliases

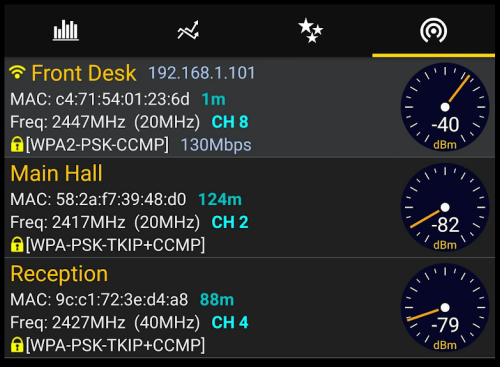
Create an alias to an AP's SSID.

Example:

Before



After



FAQ

Q: How to choose the best channel for my router?
A: Open "Best Channels" graph, if you are connected to your router select "Connected AP". The app will show you the rating of each channel, Now open your router settings by typing its IP Address in your browser (Most routers are manufactured to use a default address like 192.168.0.1, 192.168.1.1, or 192.168.2.1) from there go to WiFi/Wlan settings and change the channel.

Q: How to know if my WiFi is suffering from interference?
A: If you have WiFi Analyzer Premium you can check the interference percentage from the WiFi Diagnostics tool. If not you can monitor and check interference from "Channel Graph".

Q: Why is my WiFi connection unstable?
A: Many things can ruin your WiFi connection, but most of the time it is interference caused by either nearby WiFi networks or radio emitting devices. Make sure your router is away from devices such as microwaves, surveillance cameras, and so on. Then try changing the channel to a better uncrowded one will help solve interference and increase internet speed.

Q: Could my neighbor be jamming my WiFi? How could I detect it?
A: Yes, “Channel Graph” and “Time Graph” will help you detect if some AP is jamming your WiFi. If the signal strength of your neighbor’s WiFi is very high (>-20 dBm) then there is a high chance that your WiFi is being jammed.

Q: Why when I move my router to the best channel the app rates it as the worst one (lowest no. of stars)?
A: This is because you are selecting Best Channel for "New AP" rather than "Connected AP".
- New AP will calculate the best channel for a new router (A router that your Android device is not connected to).
- Connected AP will show the best channels for a connected router (A router that your Android device is currently connected to).

Q: Why does WiFi Analyzer sometimes recommends 2.4GHz channels instead of the non-overlapping channels 1, 6, 11?
A: The 1, 6, 11 channel recommendation does not apply to all circumstances, especially in non-corporate settings! In moderately congested neighbourhoods, one stands a very good chance to benefit from not sticking to the proposed 1, 6, 11 channel scheme. The benefits of not sticking to the 1-6-11 channel scheme.