

Connectivity labs secret menu makes Samsung phone's Wi-Fi connection much more reliable

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Connectivity Labs makes troubleshooting common Wi-Fi problems simple

Connectivity Labs is a built-in Wi-Fi diagnostic tool on Galaxy phones. It lets you identify problems with your Wi-Fi network and fix them right on your phone.

This is a great utility to have for a couple of reasons. First, it takes the guesswork out of troubleshooting Wi-Fi issues. Second, it saves you time from using dedicated Wi-Fi tools, which are often complicated and less user-friendly. Plus, having the tools on your phone makes it easy to move around and check your connection in real time, versus being tethered to your desktop or carrying around a laptop.

How to access Connectivity Labs on Galaxy phones

Samsung has hidden the Connectivity Labs menu in the Wi-Fi settings, probably to keep the rest of the menu clean.

To access it, open **Settings** and go to **Connections > Wi-Fi** . Tap the three-dot menu in the top-right corner and select **Intelligent Wi-Fi** . Scroll down to the bottom and tap **Intelligent Wi-Fi** 7 times, then you'll see **Connectivity Labs is enabled** .

From there, tap on **Connectivity labs** , then you will see all the tools and options available.

< Connections



Wi-Fi
wairrtel

Wi-Fi Calling

Bluetooth

NFC and contactless payments

Ultra-wideband (UWB)
Identify the precise location of nearby devices.

Airplane mode

SIM manager

Mobile networks

Data usage

Mobile Hotspot and Tethering

More connection settings

Wi-Fi

On

Wi-Fi Direct

Intelligent Wi-Fi

Advanced settings

Contact us

Current network

wairrrtel
Connected



Available networks

wairtel



+ Add network

< Intelligent Wi-Fi

Switch to better Wi-Fi networks

Automatically switch to Wi-Fi networks that are faster or more stable than your current network. To prevent interruptions, this only happens when the screen is off.



Turn Wi-Fi on/off automatically

Turn on Location to use this feature.



Prioritize real-time data

Give network priority to games, video calls, and other tasks that are sensitive to lag. Background data usage is given less priority.



Detect suspicious networks

Get notified when suspicious activity is detected on the current Wi-Fi network.



Auto Hotspot connection

Never

Intelligent Wi-Fi

7.0.0

Connectivity Labs is enabled.

This feature is for internal test purposes. It does not guarantee stability.

How Connectivity Labs Troubleshoots Home Connectivity Problems

Connectivity Labs includes a variety of useful tools to help identify and troubleshoot various Wi-Fi issues. For many, the combination of these tools has worked wonders.

Home Wi-Fi Test Helps You Find the Ideal Location for Your Router

When moving into a new apartment, many people place their main router in the living room. They also install a second router — a signal extender — in the hallway to extend coverage to other rooms, thinking they've eliminated all the dead spots in the house. However, they soon realize they're wrong, when they start experiencing signal loss in their balcony.

It could be that your extender is misplaced and you want to confirm that. So, let's do a quick check with the **Home Wi-Fi inspection** tool . The tool will prompt you to select your network and start walking around your home. As you move, the tool will map the signal strength and quality in different areas on a graph. This is all the information you need to find the strongest signal locations for your router and extender, and then place them appropriately.



Prepare to search for weak signal area



If you are ready, press 'start' button and walk around home with your device to check weak signal area.

Weak signal area will be shown as red background on the graph in the next page.

Back

Start



Select targeting Wi-Fi networks

Select your home Wi-Fi names.
Then press 'Next'.
If not visible, press 'Refresh'.

- A [redacted] ▼
- A [redacted] ▼
- A [redacted] ▼
- C [redacted] ▼
- Vtrvd_5G ▼
- wairrtel ▼
- wairtel ▲

BSSID	Band	RSSI
50: [redacted]	2.4G	-38
- wairtel(2) ▼

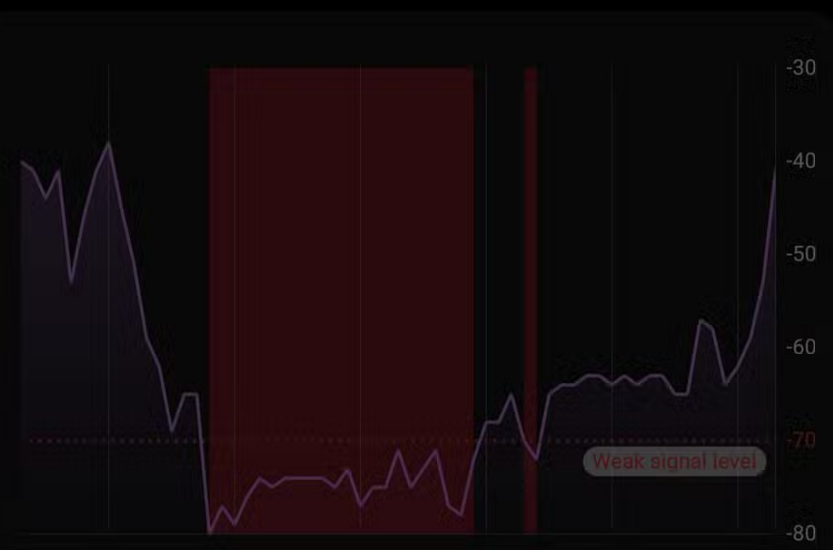
Refresh

Next



Measure Wi-Fi signal strength

Walk around home and check weak signal area. Press 'Done' button to finish investigation.



Weak signal area has been detected!

wairtel

BSSID	Band	RSSI
50:...	2.4G	-41

Weak signal area found

Internet access may not be available in weak signal area. We recommend to install extra Wi-Fi routers or to move the location of the existing Wi-Fi routers to minimize weak signal area.

Resume

Exit

In addition to strength mapping, Home Wi-Fi inspection also prompts you to set stronger Wi-Fi security settings for your network if it detects weaker or potentially vulnerable protocols. That way, you can increase the overall security of your network.

Nearby Wi-Fi information helps optimize the network

Living in an apartment means having dozens of Wi-Fi networks around. Sometimes, many of these networks can be on the same router channel, leading to a phenomenon called co-channel interference (CCI). This is exactly what leads to problems like caching, slower speeds, and dropped connections.

The Nearby Wi-Fi information tool — available as a developer option in the Connectivity labs — will help you diagnose and troubleshoot problems. It lists all the nearby Wi-Fi networks around you, along with a bunch of useful information like Received Signal Strength Indicator (RSSI) and frequency band. It sorts them based on strength into **Best** , **Good** , **Bad** , and **Worst** .

< Connectivity labs

Unused 4

Unsecured 0

Home Wi-Fi inspection

Auto reconnect to carrier Wi-Fi

L4S
Enable receiver-side L4S in the Wi-Fi

Switching to mobile data faster

Connect to 2.4GHz for IOT setup
Device is connected to 2.4GHz BSSID

Show network quality info
Show network quality info in the list of available Wi-Fi networks.

Enhanced Wi-Fi compatibility

Customize Wi-Fi list settings

Wi-Fi developer options

Reset all labs settings

< Wi-Fi developer options

Connection information

Nearby Wi-Fi information

Wi-Fi and network diagnosis

Wi-Fi history

Wi-Fi connection history

Wi-Fi link status history

Network history

Network connection history

others

Change scan interval

Restart the Wi-Fi subsystem

< Nearby Wi-Fi information

Nearby Wi-Fi

Channel utilization



SSID	#	RSSI	Band
------	---	------	------

Airtel_	1	-79	2.4G
---------	---	-----	------

Airtel_	1	-79	2.4G
---------	---	-----	------

JPSB2.4	1	-85	2.4G
---------	---	-----	------

Viras	2	-54	2.4G 5G
-------	---	-----	------------

wairrtel	1	-81	5G
----------	---	-----	----

wairtel	1	-70	2.4G
---------	---	-----	------

wairtel(2)	1	-42	2.4G
------------	---	-----	------

Additionally, tapping on a network will reveal more details about that network, including the channel it's using. This will help you identify channels for your Wi-Fi network and any other networks you think might be conflicting. Then, switch to the **Channel utilization** tab in **Nearby Wi-Fi information** , which provides details about channel congestion — that is, how many networks are using a particular channel.

< Nearby Wi-Fi information

Nearby Wi-Fi

Channel utilization



SSID

wairtel(2)

BSSID	Freq	CH	RSSI	CU	STA
9c:d [redacted]	2462	11	-60	-	-

Security: [WPA-PSK-TKIP+CCMP]
 [WPA2-PSK-TKIP+CCMP]
 [RSN-PSK-TKIP+CCMP]

Wi-Fi standard: 11n, bandwidth: 40MHz
 11e(O) 11k(X) 11v(X) 11r(X) 11w(X)

Nearby Wi-Fi information

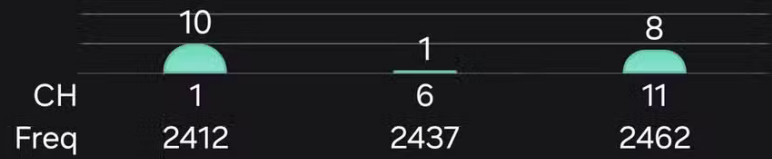


Nearby Wi-Fi

Channel utilization

2.4GHz Channel Utilization

100%



5GHz Channel Utilization

100%



Then go to the admin page of both the router and the range extender and change their channels. All current issues should be resolved.

Connectivity labs isn't an app you'll use every day, but it's a smart choice to have on your phone, as it equips you with a number of useful tools that you might need when your Wi-Fi starts to have issues. I wish more phones had this tool - at least for simple network issues - as it would make our lives much simpler and eliminate our reliance on third-party apps.

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