

# Improving Your TCC Home WIFI

## Factors that affect your WIFI Network

### 1. Device Age & Quality

Newer devices offer faster Wi-Fi speeds than older devices. If you're getting slower speeds and have an older device, the device might be the problem. For example, a laptop even just 3 years old could experience up to 4x slower max speed range.

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- Power your device off completely and power it back on after 30 seconds.
  - Clear your browser history and cache [if applicable].
  - Remove any unused apps. Apps can run in the background, slowing down your device.

### 2. Number of Devices

The more devices connected to your Wi-Fi network, the bigger the demand on the network and the greater effect this has on speeds to your devices. Higher-speed Internet packages deliver better Wi-Fi to many devices. You may have more WiFi devices than you think!

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- Devices may still use your Wi-Fi even when you're not using them.
  - Disconnect from Wi-Fi or turn devices off when you're not using them.
  - Certain activities use a lot of bandwidth, such as streaming videos in 4K, try reducing your viewing quality to HD
  - You may have more devices connected to your Wi-Fi network than your Internet package can effectively support.

### 3. Signal Interference

All Wi-Fi signals compete with each other. There are certain sources of interference that may be contributing to slow Wi-Fi speed to your device.

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- High Density Living Area: Impacts are worse in apartments and condos with several neighbours in all directions.
  - Peak Activity Hours: Impacts are worse in apartments and condos with several neighbours in all directions.
  - Older Devices: Older devices have a harder time dealing with Wi-Fi interference.
  - Other electronics: Other electronics in your home can also interfere with your Wi-Fi signal.

### 4. Location of Modem

Wi-Fi signal strength is strongest close to the modem. As Wi-Fi radio waves travel from the modem, they are affected by: distance from the modem, obstructions such as walls, furniture, etc., signal interference from other electronics (small appliances, microwaves, etc.)

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- Test the reach of your Wi-Fi signal by running multiple speed tests as you move away from your modem. Use the device that is experiencing slow speeds.
  - Run a speed test standing next to the modem and note the results.
  - Move to the location where your device is experiencing slow speeds and run another speed test. Compare the speed test results.