

Configuring Wide Area Network (Access Point)

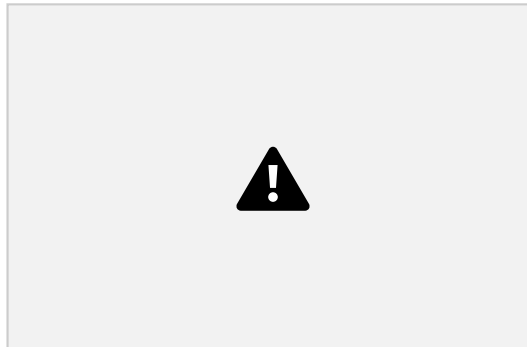
Technical Terms

- ❖ Access Point - a wireless network device that acts as a portal for devices to connect to a local area network.
- ❖ DHCP (Dynamic Host Configuration Protocol) - a network management protocol used on Internet Protocol networks, whereby a DHCP server dynamically assigns an IP address and other network configuration parameters to each device on the network, so they can communicate with other IP networks.

Configure Wide Area Network

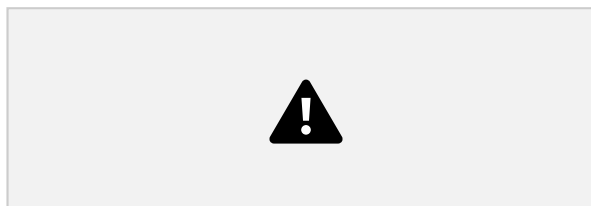
As we gather all the peripherals and equipment needed, we will proceed on Configuring Wide Area Network. Same process with Router but this time we will use Modem or the Access Point. See steps listed below:

1. Gather your Modem, Ethernet Cable and Personal Computer. Connect each peripheral using the Ethernet Cable. Directly connect Modem to your Personal Computer using the Ethernet Cable. This will just be use for the setting up processes.



<https://www.oricom.ca/en/support/how-to-connect-a-dsl-modem-to-a-computer/>

2. Reset the Modem.



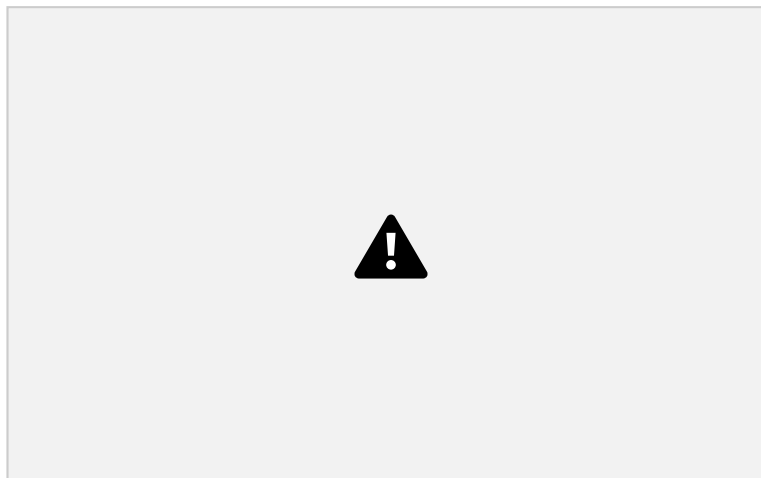
<https://www.centurylink.com/home/help/internet/modems-and-routers/modem-reset.html>

Follow these steps to perform a modem reset:

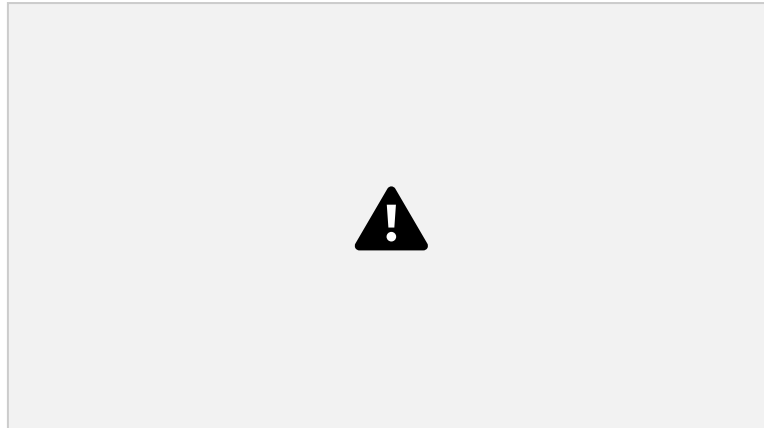
- a. Press the reset button in and hold it for 15 seconds. You should feel a slight click when you press it. When done correctly, the power light on the modem will start flickering orange/red.
- b. Wait 3 to 5 minutes. The power light will turn amber and you will need to run through the modem activation process as if setting it up for the first time. You may be asked for account login information to configure your modem.
- c. When the internet light turns green, you should be able to access the internet.

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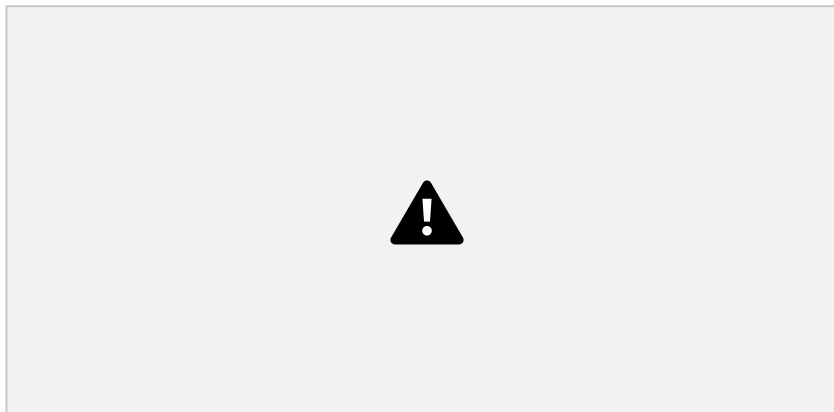
- d. Your previously connected devices may not be able to connect until you re enter the network security key (WiFi password) in the wireless settings on each device.
3. Go to browser either "Google Chrome" or "Internet Explorer". And type in the default IP Address of your Modem. It depends on the manufacturer. For this learning material, we will use 192.168.254.254. And a Dialog box will pop up and you will need to enter the default username and password.



4. Repeat the step shown on Configuring your Router.
 - a. Go to Network Tab. Change your IP address. Click Save then it will reboot.



b. Go to DHCP tab and click Disable Button.



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c. Unlike on Router we need to set up Wireless Tab on Modem. Click Wireless Tab. Click on WPA/WPA2 – Personal (Recommended) then enter your desired PSK Password. It must consist of alphanumeric characters. The browser will reboot.

