

Wireless Routers



Changing Channels

Typical Wireless Router



Why Change Channels?

- Many devices connect via a Wireless Router, for example laptops or Netflix and Hulu Plus.
- If you and your neighbour are using the same channel, you both may be 'waiting' on each other.
 - Solution: Just pick a channel for yourself.



DISCLAIMER

- Your Wireless Router is connected to the Internet in some fashion; typically a Time Warner cable or, less likely, a Dish cable.
- If this speed is too slow, changing how your Wireless Router operates will NOT help.



How to Change Channels

- Login to the Administrator panel of your router
- Type 192.168.1.1 into your address bar

Username: admin

Password: If you don't know it, try 'password'

(If this doesn't work, we will tell you what to do later.)



How to Change Channels

- Click 'Wireless Settings'



Wireless Settings

Wireless Network

Name (SSID): Meiere

Region: **Change to** United States

Channel: **Channel 1** 06

Mode: g and b

Security Options

None

WEP

WPA-PSK [TKIP]

WPA2-PSK [AES]

WPA-PSK [TKIP] + WPA2-PSK [AES]

Security Options (WPA-PSK)

Passphrase: (8-63 characters)

Apply Cancel

That's All



Problems?

- Forgotten Password?
- Look on the bottom of your router for the default password. Try it.
- Did not work? Look for the reset button. Hold it in for 10 seconds or longer.
- Your password is now the default.



Dual Band Routers

- All wireless devices from routers to phones operate on a specific central frequency.
- Wireless routers can legally use frequencies in two different bands; 2.4 GHz and 5.0 GHz.
- All can use 2.4 GHz, some can use either one or both.



If you have a dual-band router, you can chose to use either one or both. We recommend 'simultaneous'.

Follow the instructions above to the point where you choose channels. See the next slide for that.

Dual Band Choices

- If given a choice choose 'simultaneous'.
- For the 2.4 GHz, choose Auto or 1.
- For the 5.0 GHz choose 51 if not the default; if it is 51, choose 36.



Wireless Settings

Region Selection
Region:

Wireless Network (2.4GHz b/g/n)
 Enable SSID Broadcast
Name (SSID):
Channel:
Mode:

Security Options
 None
 WEP
 WPA-PSK (TKIP)
 WPA2-PSK (AES)
 WPA-PSK (TKIP) + WPA2-PSK (AES)
 WPA/WPA2 Enterprise

Wireless Network (5GHz a/n)
 Enable SSID Broadcast
 Enable Video Network
Name (SSID):
Channel:
Mode:

Security Options

Want to Know More?

- Use a wireless sniffer.
- A sniffer is a program which displays information about wireless signals that your devices can detect.
- Forrest prefers NetSurveyor for single band routers.

