



WiFi in your Home or Business

By: PC Tech UpTime, Inc.
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WiFi TIPS & TRICKS...

Knowledge is power! However, as a wise man once said,

“The more you know...the less you know!”

Was he insane, or wise beyond measure? The Internet supplies a vast of supply of knowledge to anyone willing to test the theory above. Part of learning, researching, or enriching ones mind is to understand what is actually real, and what is a lie, or a manufactured false-hood. Finding the truth is far more important than the quantity of information you can gather. Using the truth wisely is called wisdom!

The Internet gives us fast access to an unfathomable amount of knowledge. What started as curiosity in a scientist's mind finally developed into a common tool that keeps you “IN THE KNOW!”

Internet generally originates from Broad cast providers called Internet Providers. An individual whether it's a business or a residential home normally contracts with the company providing access to the Internet data then supplies that user with a **MODEM** that receives and decodes the signal to allow you access to the World Wide Web, or Internet. Most providers offer a modem that allows just one ethernet connection and no Wifi connection unless they offer a GATEWAY unit that combines up to four wired users, and a Wireless signal. WiFi is called wireless. Much of today's devices can login to that wireless signal and access the Internet from that connection.

Maybe you are old enough to remember hearing a DIAL-UP connection. It made a lot of noise especially during the initial connection called a HAND SHAKE. Basically it was the two providers greeting and sharing the Hello protocol, then agreeing on the language used in the connection. It is a constantly sending and receiving data packs, and then checking that is was received successfully. This was and is an important part of a wired connection.

Today those things are silent, but no less active in a wired (Ethernet) connection. That very process is like a layer of communication almost like a speaker asking us, “**Are you getting this?**”. Now Wired networks are not very mobile. Today we are impatient and want immediacy. I want it where ever I go under my terms. Thus the birth of wireless signals or what is called “WiFi”. This is very versatile but has many security flaws that make us vulnerable to data theft during our usage of WiFi.

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WIRELESS (WiFi)

The word WiFi is only a branding term used to describe whether or not a location has wireless Internet. It is not an acronym for some ingenious term thrown around in conversation. There are only two methods of offering Wireless Internet. It is either a password protected or an unprotected connection to the Internet. It is broadcasted at different frequencies denoted by Mhz. And, its speed or volume of throughput in mega bits per second (mbps). Using WiFi is very convenient. The use of it needs to be viewed like a circular ball or balloon as far as coverage range.

The equipment used to produce Wifi is a Modem and a ROUTER. A Router is at the center of where the signal begins to broadcast. The signal radiates outward from the router in all directions. The farther you move from the router the weaker the signal becomes.

In a home or business this can be overcome by adding Access Points, or a Wireless Extender. A simple way to enlarge your coverage is to use a Wireless Extender over AC. This practical and fairly inexpensive. They are made by many manufacturers, and will work for several years under good conditions. As the visual idea of a Ball symbolizing the signal of your new unit must get a good signal in order to actually extend a useful connection speed. The price of the Range Extender is most often an indicator of how good a signal you can reproduce, how easy it is to install and maintain, and the potential life expectancy. The cheaper a router all these a fore mentioned terms are worse.

The most common question today is: Am I getting “WiFi” Access? The difference between the advertised service and actual performance (Real Time) is truly debatable. Lets start with the simple and work up! The people you get Internet from are called INTERNET PROVIDERS. There are three major types of Internet providers out there today.

| <u>COMPANIES</u> | <u>NORMAL ACCESS TYPE</u> | <u>SPEED Mbps</u> | <u>UNLIMITED DATA</u> |
|------------------|---------------------------|-----------------------|-----------------------|
| AT&T | Telephone wire DLS | up to 6.0 | Yes |
| AT&T | Uverse | 20 – 25 | Yes |
| Spectrum (Cable) | coaxial Cable | 20, 50, 100, 200, 400 | Yes |
| Satellite | Satellite Dish | 25 or higher-Ask | NO... it is limited |
| Hot Spot | Radio Wifi signal | 5 to 12 Mbps | NO... it is limited |

So why so many choices you might ask? It all depends on where you live and how fast and dependable you want your Internet to be! DSL is disgustingly slow, and full of trouble setting them up. If you go

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with DSL always ask for a Gateway. A Gateway combines the modem and router into one unit. And if trouble happens, and it will then just a call to the provider should fix it.

Satellite Dish and Cellular Hotspot Internet has limited data. Either it will cost your extra, or your are reduced to a speed so slow that you give up all together. Which is probably the providers goal.

Cable service is the best all around service for both speed, reliability, and cost. Always ask more than one friend about a service experience. Sometimes the advice is so bias, or unrepeatabe you might want to find a new friend for advice!

LASTLY...

Routers are the work horse of WiFi. It is hard to chose the best one. The sales person wants to sell something and they may be sincere, but normally when you have tested repeatedly different products and a group of problems always seem to arise from certain brands then you learn that they are poor investments. All I'll tell you is that as a technician I've only found two brands that hold up. One is seldom seen any more but always worked GREAT! That was D-Link. Simple, functional, and lasts! Number two has been around a long time, that is Linksys, or Cisco. You can research all you want, but these two WORK!

Call us today to setup an appointment to review your situation and recommend what would fit into your budget, and needs. (828) 400-7271. We also just added a catalog of discount Antivirus and Internet Security. You can get a price quote by calling us or email with your needs. We accept now credit cards to allow users to security purchase software of your choice with a license key and download link so you can install it yourself, or make an appointment for a technician to install your software professionally.

Check out our company website for a link page:

<http://www.pctechuptime.com/security.html>

<http://www.pctechuptime.com/backup.html>

<http://www.pctechuptime.com/discount-security.html>

Antivirus software

Backup Choices

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Thank you!

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