### Q: How do I connect to my wireless network?

A: Step 1. Open the utility by right clicking on the icon at the bottom right hand side of the screen.



**Step 2.** Click on the "**Site Survey**" link on the left hand side. Highlight the network that you want to connect to and click "**Connect**".

I- Link Info	108Mbps Wireless LAN Adapter Configuration Utility
ii· Configuration     ii· Advanced     ii· Site Survey	Available Network     Refresh       BSS/IBSSID     SSID     WEP     AP       1     00-90-48-A0-22-EF     LAB411     No     Yes       1     00-90-48-A0-22-EF     LAB411     No     Yes       1     00-90-48-A0-22-EF     LAB411     No     Yes       1     00-90-48-C9-42-A0     wen-g     @WPAPSK Yes       1     00-00-F4-C5-F9-5D     231TEST     No     Yes       1     00-00-F4-C5-F9-5D     231TEST     No     Yes       1     00-00-C41-F8-E3-7D     stid     @Yes     Yes
i About	Profile

**Step 3.** The profile window for the network will come up. Click **"Apply"**. If you have encryption enabled enter the security settings first.

Connect: LAB41	1	×
Profile Name	LAB411	
SSID	LAB411	
Wireless Mode	Infrastructure	
Channel	11	
Tx Rate	Auto	
Power Mode	Continuous Access Mode 💌	
🔲 Data Encryp	ition 🔲 WPA 🔲 WPA PSK	Config
Auth. Mode	Auto	
Default Key I	Network Key	Key Length
@ 1		64 bits 🔽
<b>0</b> 2		64 bits 🔽
• 3		64 bits 🔽
• 4		64 bits 🔽
Key Format	HEX	
	Apply Cancel	

### **Q: What is Ad-Hoc Mode?**

A: Peer-to-peer wireless connection between computers when no router or access point is used.

### Q: How do I configure encryption on my wireless adapter?

A: Step 1. Open the utility by double clicking on the icon at the bottom right hand side of the screen.



**Step 2.** Click on the "**Advanced**" link on the left hand side and enter in your security settings then click "**Apply**".

∥∙ Link Info	108Mbps Wireless LAN Adapter Configuration U	Jtility X
- Configuration	Encryption Disable Conf Auth Mode Auto	iguration
Advanced Site Survey	Default Key Network Key	Key Length
∦• About	2 3	64 bits 💌
6	4 Default Key 1	64 bits 💌
	Key Format	
	Apply Cancel	

# **Q:** Why does the Wireless Network Connection Properties come up when I double click on the icon?

A: The "Windows Wireless Zero Configuration Utility" is controlling the adapter.

Uncheck "Use Windows to configure my wireless network settings" and click "OK" to use the utility.

، Wireless Network Connection Properties 🛛 🔹 🔀		
General Wireless Networks Advanced		
Use Windows to configure my wireless netwo	ork settings	
Available networks:		
To connect to, disconnect from, or find out mo about wireless networks in range, click the bu	ore information tton below.	
View Wi	reless Networks	
Preferred networks: Automatically connect to available networks in below:	n the order listed	
Add <u>R</u> emove Propertie	Move <u>d</u> own	
<u>configuration.</u>	Advanced	
OK	Cancel	

### **Q: How do I enable the Wireless Zero Configuration service?**

A: Step 1. Click on Start then Run. Type in "ncpa.cpl", without the quotes, and hit enter.

Run	? 🔀
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	ncpa.cpl
	OK Cancel <u>B</u> rowse

**Step 2.** This will open the Network Connections window. Right click on your wireless network connection and click on properties.



Step 3. Click on the "Wireless Networks" tab and place a check in "Use Windows to configure my wireless settings" at the top. Click "OK".

- Wirel	ess Networl	k Coni	nectio	n Prop	ertie	es	?	
General	Wireless Net	works	Advan	ced				
🔽 Use	Windows to c	onfigure	e my wir	eless nei	twork	settings		
Availa	able <u>n</u> etworks:							-
To co abou	onnect to, disc t wireless netw	onnect orks in	from, or range, o	find out click the	more buttor	informal h below.	tion	
				View \	√irele	ss Netw	vorks	
Prefe Autor belov	rred networks: natically conne v:	ect to av	vailable	network	s in th	Move	listed	
Learn	Add about <u>setting</u>	<u>R</u> emo <sup>.</sup> up wirel	ve ess net	Pr <u>o</u> pe work	nties	Advar	nced	
					)K		Cance	-

# **Q:** Why is the Wireless Networks tab missing under the properties of my wireless network connection?

A: The "Wireless Zero Configuration" service is not running.

Click on Start then Run. Type in "services.msc", without the quotes and hit enter.

Run	? 🔀
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	services.msc
	OK Cancel Browse

This will open the services window. Double click on the Wireless zero configuration service.

Services (Local)	🎨 Services (Local)		
	Wireless Zero Configuration	Name /	Descriptio /
	Resart the service Resart the service Description: Provides automatic configuration for the 802.11 adapters	Universal Plug and Play Device Host Wolume Shadow Copy WebClent Windows Audio Windows Audio Windows Firewal/Internet Connection Windows Installer Windows Installer Windows Management Instrumentation Windows Time	Provides s Manages - Enables W Manages - Provides r Provides in Adds, moc Provides a Provides s Maintains
		Windows User Mode Driver Framework Wireless Zero Configuration	Provides a
		WMI Performance Adapter	Provides p Creates a
		e	

Make sure the Startup type is set to "**Automatic**" and click on "**Start**" to start the service. Click "**Apply**" then "**Ok**".

Wireless Zero Co	onfiguration Properties (Local Computer) 🔶 🔀				
General Log On	Recovery Dependencies				
Service name:	wzcsvc				
Display <u>n</u> ame:	Wireless Zero Configuration				
<u>D</u> escription:	Provides automatic configuration for the 802.11				
Pat <u>h</u> to executab	le:				
	jystem32\svchost.exe -k netsvcs				
Startup typ <u>e</u> :	Automatic				
Service status:	Service status: Stopped				
<u>S</u> tart	Stop Pause Resume				
You can specify the start parameters that apply when you start the service from here.					
Start parameters:					
	OK Cancel Apply				

#### Q: Why am I getting low signal strength?

A: There are a number of factors that can impact the range of wireless devices.

1) Keep the number of obstructions to a minimum. Each obstruction can reduce the range of a wireless device. Position the wireless devices in a manner that will minimize the amount of obstructions between them.

2) Building materials can have a large impact on your wireless signal. In an indoor environment try to position the wireless devices so that the signal passes through drywall or open doorways or space.

3) Antenna position can also have a large impact on your wireless signal. Use the adapter's site survey tool to determine the best antenna position for your wireless devices.

4) Interference from devices that produce RF noise can also impact your signal. Position your wireless devices away from Microwaves, UPS's, monitors, HAM radios, etc. Also, anything operating on the 2.4ghz frequency will cause interference. Such as 2.4ghz cordless phones or other wireless remotes operating on the 2.4ghz frequency.

If you are experiencing low, or no, signal strength consider repositioning the wireless devices, repeating the signal or using stronger antenna's to boost the signal strength.